



touching lives

undergraduate catalog

2010-12



THE UNIVERSITY OF ALABAMA

THE UNIVERSITY OF ALABAMA 2010–12 UNDERGRADUATE CATALOG

May 2010

The University of Alabama 2010–12 Undergraduate Catalog was produced by the Office of University Relations, a division of University Advancement, in conjunction with the Office for Academic Affairs.

Equal Opportunity in Education and Employment

The University of Alabama complies with applicable laws prohibiting discrimination, including Titles VI and VII of the Civil Rights Act of 1964, the Age Discrimination in Employment Act, Executive Order 11246, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, the Vietnam Era Veterans Readjustment Assistance Act, the Age Discrimination Act of 1975, and the Americans with Disabilities Act of 1990, the ADA Amendments Act of 2008, and the Genetic Information Nondiscrimination Act of 2008 and does not discriminate on the basis of genetic information, race, color, religion, national origin, sex, sexual orientation, age, disability or veteran status in admission or access to, or treatment of employment in, its programs and services. Inquiries and concerns regarding this policy may be directed to Ms. Gwendolyn Hood, University Compliance Officer, 171 Rose Administration Building, Box 870300, Tuscaloosa, AL 35487-0300; (205) 348-5855 (voice); (205) 348-5573 (TDD). This notice is available in alternative formats upon request.

The University of Alabama is committed to making its programs and services available to individuals with disabilities and seeks to be responsive to qualified students with disabilities. Enrolled students with disabilities are invited to contact the Office of Disability Services, Box 870185, Tuscaloosa, AL 35487-0185; (205) 348-4285. Those visiting the University for campus tours or special events are encouraged to contact the sponsoring office or department in advance so appropriate provisions may be made.

University of Alabama Bloodborne Pathogen Policy

The University of Alabama bloodborne pathogen policy, approved in February 1993, requires each administrative unit of the University to conduct a risk-appraisal survey during October and November of each year to “identify employees and students at risk for occupational or student academic exposure to bloodborne pathogens.” All units in which students or employees are at risk must then develop an “exposure control plan.” Employees and students at risk are required to receive the hepatitis B vaccination series, submit proof of immunity to the hepatitis B virus (or proof of vaccination), or sign a statement declining the vaccine. Employees and students who are at risk are also required to receive training about bloodborne pathogens. For further information about this policy, contact The University of Alabama, Office of Environmental Health and Safety (205-348-5905).

Campus Security Report

Each year, The University of Alabama publishes the UA Annual Campus Security Report. It contains crime statistics for the three most recent calendar years. It also details UA security policies and procedures. The Campus Security Report is provided in accordance with the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act and is available online to view or print at safety.ua.edu. The Alabama Department of Public Safety, a state agency, also provides an online listing of sex offenders currently registered with the state. This listing is available on the Alabama Department of Public Safety Web site at www.dps.state.al.us (click on the “National Sex Offender Registry” link). For information regarding the enrollment or employment of registered sex offenders at The University of Alabama, or to request a printed copy of the Campus Security Report, write The University of Alabama, University Police, Attention: Community Services Division, Box 870180, Tuscaloosa, AL 35487-0180, or send an e-mail to ua.police@ua.edu.

Academic Calendar

The University's current academic calendar can be viewed online at www.ua.edu by selecting “A” from the site's index and then selecting “Academic Calendar.”

Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors or error occasioned by honest mistake. All information contained in this catalog is subject to change by the appropriate officials of The University of Alabama without prior notice.

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ADMINISTRATION OF THE UNIVERSITY OF ALABAMA

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Ex Officio Member of the Board of Trustees

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and Vice Provost
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Samory T. Pruitt, Vice President for Community Affairs

ACADEMIC DIVISIONS OF THE UNIVERSITY

College of Arts and Sciences (1910)
Robert F. Olin, Dean
Culverhouse College of Commerce and Business Administration (1919)
J. Barry Mason, Dean
College of Communication and Information Sciences (1973)
Loy A. Singleton, Dean
College of Community Health Sciences (1971)
Eugene Marsh, Dean
College of Continuing Studies (1919)
Carolyn C. Dahl, Dean
College of Education (1909)
James McLean, Dean
College of Engineering (1909)
Charles W. Karr, Dean
Graduate School (1924)
David A. Francko, Dean
Honors College (2003)
Shane Sharpe, Interim Dean
College of Human Environmental Sciences (1931)
Milla D. Boschung, Dean
School of Law (1872)
Kenneth C. Randall, Dean
Capstone College of Nursing (1976)
Sara E. Barger, Dean
School of Social Work (1965)
James A. Hall, Dean

ABOUT THE UNIVERSITY

MISSION AND OBJECTIVES

The University of Alabama, the State of Alabama's oldest public university, is a senior comprehensive doctoral-level institution. The University was established by constitutional provision under statutory mandates and authorizations. Its mission is to advance the intellectual and social condition of the people of the State through quality programs of teaching, research and service.

Activities to Support the Mission

The University of Alabama's activities emerge from a broad range of research and creative activities, many of which are recognized for their contributions to the economic, technological and cultural growth of the State. Research and creative activity yields continuing stimulation for the instructional programs offered by the University's colleges and schools, supported by the Amelia Gorgas Library, a member of the Association of Research Libraries. At the undergraduate level, the University offers a broad range of baccalaureate programs in the arts and humanities, science and technology, preprofessional and professional fields. A University-wide core curriculum provides a general education component as the keystone of every undergraduate program. Graduate programs, built on these undergraduate foundations, concentrate on the development of original scholarship, research and creative activity. Professional programs, including the State's only public law school, prepare students with high levels of competence and for leadership roles. As one of the major residential campuses in the State, the University enhances the academic and personal growth of its students through its on-campus environment. Recognizing that education is a lifelong endeavor, the University offers an array of educational opportunities for non-traditional students to study through distance education, including 12 undergraduate programs and 32 online graduate level programs.

The University's research, creative activities and instructional programs form a foundation for extensive service activities, establishing a number of partnerships with business, nonprofit organizations and government through applications of new knowledge. These relationships often extend beyond the bounds of the State as the University assists developmental efforts at regional, national and international levels.

LOCATION

The University of Alabama (UA) is located in Tuscaloosa, a city with a metropolitan population of approximately 90,000 in the west-central part of the state. The post office address of The University of Alabama is Tuscaloosa, AL 35487. University grounds comprise some 1,000 acres. The University maintains a center in Gadsden and a governmental relations office in Montgomery.

Separate campuses of the University have been established in Birmingham and Huntsville. These campuses are known as The University of Alabama at Birmingham (UAB) and The University of Alabama in Huntsville (UAH).

DIVISIONS OF THE UNIVERSITY

Vice Presidents' Offices

- Academic Affairs
- Community Affairs
- Financial Affairs
- Research
- Student Affairs
- University Advancement

Academic Units

- College of Arts and Sciences
- Culverhouse College of Commerce and Business Administration
- College of Communication and Information Sciences
- College of Community Health Sciences
- College of Continuing Studies
- College of Education
- College of Engineering
- Graduate School

- Honors College
- College of Human Environmental Sciences
- School of Law
- Capstone College of Nursing
- School of Social Work

Support Units

- Capstone International
- Center for Communication and Educational Technology
- Center for Teaching and Learning
- College of Continuing Studies
- Libraries at The University of Alabama
- Oak Ridge Associated Universities
- Office of Disability Services
- Office of Information Technology
- Office of Institutional Research and Assessment
- Office of Undergraduate Admissions
- Office of the University Registrar
- Paul W. Bryant Museum
- Technology and Testing
- University of Alabama Museums
- University of Alabama Press
- University Writing Center

ACCREDITATION

The University of Alabama is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award baccalaureate, certificate, masters, educational specialist and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call (404) 679-4500 for questions about the accreditation of The University of Alabama.

In addition, selected programs have been accredited by the AACSB International-The Association to Advance Collegiate Schools of Business; ABET, Inc.-Accrediting Board for Engineering and Technology; Accrediting Council on Education in Journalism and Mass Communication; American Association of Family and Consumer Sciences; American Bar Association; American Library Association; Alabama State Department of Education; Alabama State Board of Health; Accrediting Council for Graduate Medical Education; American Psychological Association; American Speech-Language-Hearing Association; Association of University Programs in Health Administration; Commission on Accreditation of Athletic Training Education Programs; Commission on Accreditation for Dietetics Education; Commission on Collegiate Nursing Education; Commission on English Language Program Accreditation; Council on Social Work Education; Council for Interior Design Accreditation; Council for Accreditation of Counseling and Related Education Programs; Council on Rehabilitation Education; Liaison Committee for Medical Education; National Association of School Psychologists; National Association of Schools of Art and Design; National Association of Schools of Music; National Association of Schools of Dance; National Association of Schools of Theatre; National Council for Accreditation of Teacher Education.

HISTORY OF THE UNIVERSITY

1818-1820

- In 1818, the federal government authorized Alabama Territory to set aside a township for the establishment of a "seminary of learning." Alabama was admitted to the Union on March 2, 1819, and a second township added to the grant. On December 18, 1820, the seminary was established officially and named "The University of the State of Alabama."

1827

- Tuscaloosa, then the state's capital, chosen as the University's home.

1831

- On April 18, inaugural ceremonies held and the University opened. By May 28, 52 students had enrolled. The campus consisted of seven buildings: two faculty houses, two dormitories, the laboratory, the hotel (now Gorgas House) and the Rotunda.

1837

- The University of Alabama became the first in the state to offer engineering classes. It was one of the first five in the nation to do so and one of the few to have maintained accreditation continuously since national accreditation began in 1936.

1841

- President's Mansion completed. Its first occupant: Basil Manly, University president from 1837 to 1855.
- Total University enrollment: 63

1850

- Alabama Alpha chapter of Phi Beta Kappa established.

1851

- Total University enrollment: 126

1859

- Medical College branch of the University opened in Mobile.

1860

- The University of Alabama became a military school — martial departmental and disciplinary systems established.

1861

- Total University enrollment: 154

1865

- Union troops spared only seven of the buildings on the UA campus. Of the principal buildings remaining today, the President's Mansion and its outbuildings still serve as the president's on-campus residence. The other buildings have new uses. Gorgas House, at different times the dining hall, faculty residence and campus hotel, now serves as a museum. The Roundhouse, then a sentry box for cadets, later a place for records storage, is a campus historical landmark. The Observatory, now Maxwell Hall, is home to the Computer-Based Honors Program.

1868

- The Medical College reopens in Mobile.

1871

- During the Reconstruction era, a reorganized University opened to students.
- Total University enrollment: 107

1872

- The School of Law established.

1881-82

- Antecedents of the UA College of Engineering were established with the offering of a formal, two-year course of study in civil engineering under the aegis of applied mathematics in 1837. The College of Engineering was established in 1909 with the opening of B.B. Comer Hall.
- Total University enrollment: 154

1891

- Total University enrollment: 167

1892

- The University's first football team assembled — the "Thin Red Line" that later became the "Crimson Tide."

1893

- The first women students enrolled for the fall semester at the University. This was due in large part to the successful lobbying of the UA board of trustees by Julia S. Tutwiler. Tutwiler, then president of the Livingston Normal College for Girls, was a lifelong advocate of the right of women to be self-supporting members of society.

1894

- The student newspaper, the Crimson White, makes its first appearance.

1901

- Total University enrollment: 396

1903

- In March, the Alabama Legislature decreed that, after 30 years of student protest, the military system of organization at the University be abandoned.

1904

- A summer school for teachers was begun in response to a need for better public education in Alabama, becoming the School of Education in 1909. The College of Education was established in 1929.

1906

- At the University's diamond jubilee celebration, President John William Abercrombie presented to the board of trustees his plans for the Greater University fund-raising campaign, thus ensuring that the state legislature would no longer be the primary source for financing the University's growth.

1909

- To meet the demands for specific training in two professions, the College of Engineering and the School of Education were established. Formerly part of the liberal arts disciplines, these new offspring would function independently of the now-reorganized College of Arts and Sciences.

1910

- The Alabama Museum of Natural History in Smith Hall dedicated. Smith Hall served as a geological museum for the University's growing collections and still houses the Museum today.

1911

- Total University enrollment: 571

1912

- Dr. George Denny became University president; the campus consisted of 652 students and nine principal buildings. His presidency began an era of unprecedented physical and enrollment growth. When he retired in 1936, there were more than 5,000 students and 23 major buildings, which form the central core of the modern campus.

1914-15

- University band organized.

1919

- The School of Commerce founded. It became the College of Commerce and Business Administration in 1929. It was renamed the Culverhouse College of Commerce and Business Administration in 1997.

1920

- The Medical College moved from Mobile to Tuscaloosa.

1921

- Total University enrollment: 2,134

1924

- The Graduate School officially established.

1929

- Denny Chimes dedicated. Named for Dr. George H. Denny, president of the University from 1912 to 1936.

1931

- The School of Home Economics officially established. It became the College of Human Environmental Sciences in 1987.
- Total University enrollment: 4,639

1939

- Moundville Archaeological Park and its museum opened to the public.

1941

- Total University enrollment: 4,921

1945

- The Medical College moved from Tuscaloosa to Birmingham.
- The University Press was formed.

1948

- Introduction of doctoral programs authorized; first doctorates awarded in 1952.

1951

- Total University enrollment: 5,269

1956

- UA's first African-American student, Autherine J. Lucy, was admitted. She was expelled three days later "for her own safety" in response to threats from a mob. In 1992 Autherine Lucy Foster graduated from the University with a master's degree in education. The same day, her daughter, Grazia Foster, graduated with a bachelor's degree in corporate finance.

1961

- Total University enrollment: 8,257

1963

- The first sustained enrollment of African-American students at UA — Vivian J. Malone and James A. Hood — was achieved. Vivian Malone graduated in 1965. James Hood returned to campus in 1995 and received a PhD in interdisciplinary studies in 1997.

1965

- The School of Social Work was established.

1968

- The Computer-Based Honors Program, in which undergraduate students apply computer technology to research in a wide range of fields, was established.

1969

- The Graduate School of Library Service established by act of the Alabama Legislature. It became the School of Library and Information Studies in 1989. The School merged with the College of Communication in 1997 to become the College of Communication and Information Sciences.

1970

- New College established to allow students to pursue individualized courses of study while maintaining the academic standards of the University.

1971

- The College of Community Health Sciences established.
- Total University enrollment: 13,055

1973

- The School of Communication established. It became the College of Communication in 1988, and when it merged with the School of Information Sciences, was renamed the College of Communication and Information Sciences in 1997.

1976

- The Capstone College of Nursing established.

1981

- The University celebrates its sesquicentennial.
- Total University enrollment: 16,388

1983

- The College of Continuing Studies established. In the 1970s it was called Extended Services, then the Division of Continuing Education.

1985

- The MFA Program in Book Arts, with specializations in printing and binding, is established within the School of Library and Information Studies. It is one of only three in the country to offer such an MFA and the only one do so within the context of a library school.

1986

- University Honors Program established.
- The University's computerized library card catalog, AMELIA, available for use.

1991

- Total University enrollment: 19,366

1994

- The Stallings Center opened as the new home of the RISE Program.

1996

- Blount Undergraduate Initiative established. (First freshman class accepted in 1999.)

1998

- Second Capital Campaign concluded, having raised a total amount of \$224 million in gifts and pledges.
- International Honors Program established.
- Modeled on UA's RISE Program, the RISE School of Dallas, Texas, opened.
- Renovation of Bryant-Denny Stadium completed, increasing capacity to 82,000.

1999

- Student Services Center completed.
- Renovation of Sewell-Thomas Baseball Field to a capacity of 6,000 seats begun.
- First freshman class accepted in Blount Undergraduate Initiative. Parker-Adams Hall serves as its temporary headquarters.

2000

- English major Bradley Tuggle from Decatur, Ala., named UA's 15th Rhodes Scholar.
- Historic Barnard Hall rededicated as Oliver-Barnard Hall, the first of two Blount Undergraduate Initiative academic houses.
- Construction of 1,500-seat UA Softball Complex completed.
- Blount Living-Learning Center opens to its first resident class.
- Construction of Alabama Institute for Manufacturing Excellence (AIME) completed.
- Morgan Auditorium reopens after \$1 million renovation, the first since its construction in 1911.

2001

- UA alumnus Lieutenant Colonel Jim Kelly pilots a Discovery space shuttle mission.
- For the third consecutive year, the UA School of Law ranked among the best in the nation, according to *U.S. News & World Report*.
- UA and Auburn University form the "Alabama-Auburn Alliance" to support fair funding of higher education.
- Tide Navigator, a Web-based registration system that is the first of its kind in the United States, debuts with incoming freshmen.
- Enrollment: 19,633

2002

- UA Alumni Association establishes FATE: Future Alumni for Tradition and Excellence.
- Crimson Tradition Fund established with \$10 million gift by Paul Bryant Jr.
- UA named one of the top 50 public universities in the nation by *U.S. News & World Report* for 2003.
- UA student Kana Ellis of Northport, Ala., selected as the first recipient of the Honors Student of the Year Award by the National Collegiate Honors Council (NCHC).
- College of Community Health Sciences breaks ground for its \$12.6 million facility, designed to consolidate all services and operations of the Tuscaloosa medical campus.

2003

- Greensboro East High School, in collaboration with UA, became the first high school in Alabama to establish a state-of-the-art Math Technology Learning Center.
- Five students from UA named to the 2003 USA Today All-USA College Academic Team. UA students garnered the most awards of any college or university, claiming five of 83 spots on the list.
- UA recognized 40 "pioneers" during three days of events to commemorate the 40th anniversary of Gov. George C. Wallace's "stand in the schoolhouse door." Opening Doors, 1963-2003
- UA named one of the top 50 public universities in the nation by *U.S. News & World Report* for 2004.
- UA senior Rob Davis selected as one of three 2003 Portz Scholars in the National Collegiate Honors Council's competition for outstanding undergraduate Honors papers.
- Enrollment: 20,333

2004

- University Medical Center, UA's new multi-specialty clinic and home of the College of Community Health Sciences, opened on May 11.
- UA named one of the top 50 public universities in the nation by *U.S. News & World Report* for 2005.
- Enrollment: 20,969

2005

- Five UA students named to the 2005 USA Today All-USA College Academic Team, the most of any school in the nation. UA's three-year total of 14 also tops all other colleges and universities.

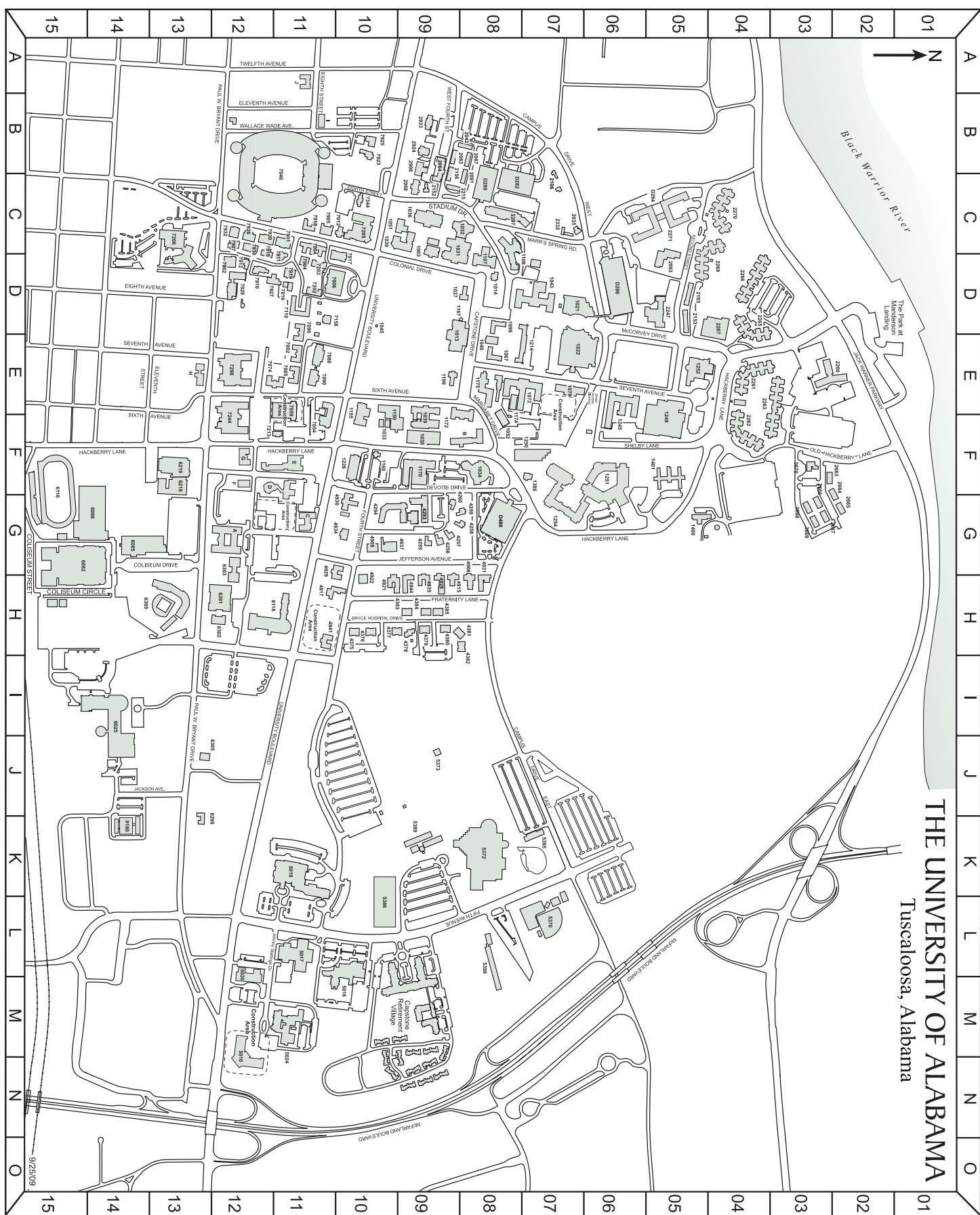
2008

- Seven UA students named to the 2008 USA Today All-USA College Academic Team, the most of any school in the nation. UA's total of 31 tops all other colleges and universities.
- Enrollment: 27,052

2009

- UA is ranked 10th in the nation among public universities in the enrollment of National Merit Scholars in the 2009 freshman class.
- Enrollment reaches a record high of 28,807 for fall 2009. The entering freshman class, at 5,207 students, is the largest in UA history.

CAMPUS MAP



THE UNIVERSITY OF ALABAMA

Tuscaloosa, Alabama

LEGEND

1003 Carmichael Hall	9-C	1400 Environmental Health and Safety	5-G
1013 Amelia Gayle Gorgas Library	9-E	1401 McMillan Building (University of Alabama Press)	5-F
1014 Gorgas House	8-D	D286 Ferguson Center Parking Deck	6-D
1021 Student Services Center.....	7-D	2035 Maintenance Grounds	7-C
1022 Ferguson Student Center	7-E	2042 Clayton Hall	8-B
1027 Blount Undergraduate Initiative John T. Oliver-Barnard Academic House.....	8-D	2064 Friedman Hall	9-B
1030 Graves Hall.....	9-C	2083 Jones Hall	9-B
1031 Bidgood Hall	9-C	2087 Lewis Hall	8-B
1032 Mary Hewell Alston Hall.....	8-C	2091 Lupton Hall	8-C
1033 Nott Hall Annex.....	10-F	2093 Blount Undergraduate Initiative Living-Learning Center	5-D
1034 Biology Building.....	8-F	D282 North ten Hoor Parking Deck	8-C
1036 Angelo Bruno Business Library and Sloan Y. Bashinsky Computer Center.....	9-C	D280 South ten Hoor Parking Deck	8-C
1038 Scientific Collections Building/ Mary Harmon Bryant Hall	9-F	2106 Moore House	7-B
1039 Lloyd Hall.....	9-F	2152 Frederick R. Maxwell Hall.....	9-C
1040 Clark Hall.....	8-E	2153 Palmer Hall	5-D
1043 B.B. Comer Hall.....	7-D	2156 Powers House	9-B
1045 Denny Chimes	10-D	2193 Somerville Hall	5-D
1051 McLure Education Library.....	9-C	2200 Rose Towers	3-E
1052 Engineering Boiler	8-F	2215 Wyman Hall	9-C
1067 Garland Hall.....	8-E	2247 Paty Hall	5-D
1072 Hardaway Hall	7-E	2261 Riverside West	4-E
1079 Houser Hall.....	7-E	2262 Riverside East	4-F
1099 Manly Hall	8-D	2263 Riverside North	3-E
1107 Morgan Hall	8-D	2265 Lakeside Residential Area East	4-D
1108 Rowand-Johnson Hall.....	8-C	2266 Lakeside Residential Area West	4-D
1150 Nott Hall	10-E	2267 Lakeside Dining	4-D
1155 Gallalee Hall	10-E	2269 Ridgecrest East Residential..	5-C
1160 Child and Family Research Clinic.....	10-F	2270 Ridgecrest West Residential..	6-C
1167 Round House	8-D	2271 Ridgecrest South Residential.....	5-C
1170 Gordon Palmer Hall	9-F	D284 Ridgecrest Parking Deck.....	5-C
1172 Smith Hall/Alabama Museum of Natural History.....	8-E	2297 ten Hoor Hall	8-C
1174 Student Engineering Projects Building.....	8-E	2332 Maintenance Quonset	7-C
1175 ROTC and A&S Programs Building (U.S. Bureau of Mines).....	8-E	2663 Highlands on Hackberry	3-F
1199 Blount Undergraduate Initiative Toumey Academic House	8-E	2664 Highlands on Hackberry	2-F
1214 Woods Hall	7-E	2665 Highlands on Hackberry	2-G
1226 Russell Hall.....	10-F	2666 Highlands on Hackberry	3-G
1245 H.M. Comer Hall (Mineral Industries Building)	6-E	2667 Highlands on Hackberry	3-G
1249 Tom Bevill Energy, Mineral, and Materials Science Research Building	5-F	2668 Highlands on Hackberry	3-G
1250 Rodgers Library for Science and Engineering	7-F	2669 Highlands on Hackberry	3-G
1251 Interdisciplinary Science Building - Shelby Hall	6-F	2670 Highlands on Hackberry	3-F
1252 AIME (Alabama Institute for Manufacturing Excellence	5-E	2908 Beta Theta Pi.....	9-B
1254 Science and Engineering.....	7-G	2913 Delta Kappa Epsilon	9-C
1388 Kilgore House	7-F	2924 Phi Gamma Delta	9-B
		2933 Sigma Nu	9-B
		D480 Campus Drive Parking Deck	8-G
		4255 Lambda Sigma Phi	9-G
		4256 Alpha Phi Alpha	9-G
		4257 Sigma Pi	9-G
		4258 Delta Sigma Theta	8-G
		4259 Theta Tau	8-G
		4260 Kappa Alpha Psi	9-G
		4292 Bryant Dining	9-G
		4293 Bryant Dormitory.....	9-G
		4294 Bryant Hall	10-G
		4375 607 Bryce Lawn Apartment Complex	10-H
		4376 601 Bryce Lawn Apartment Complex	10-H
		4377 511 Bryce Lawn Apartment Complex	10-H
		4378 Partlow House	9-H
		4379 423 Bryce Lawn Apartment Complex	9-H
		4380 417 Bryce Lawn Apartment Complex	9-H
		4381 411 Bryce Lawn Apartment Complex	8-H
		4382 405 Bryce Lawn Apartment Complex	8-H
		4383 508 Bryce Lawn Apartment Complex (French and German House)	9-H
		4384 500 Bryce Lawn Apartment Complex (Spanish House)	9-H
		4385 422 Bryce Lawn Apartment Complex	9-H
		4906 Alpha Tau Omega	8-H
		4909 Chi Phi	10-G
		4915 Delta Tau Delta	9-H
		4917 Kappa Alpha (new)	11-H
		4921 Kappa Sigma	10-H
		4922 Lambda Chi Alpha	10-H
		4928 Kappa Alpha	9-H
		4941 Pi Kappa Alpha	10-H
		4929 Pi Kappa Phi	10-G
		4930 Sigma Alpha Epsilon	10-G
		4931 Sigma Chi	8-H
		4934 Sigma Phi Epsilon	10-G
		4935 Theta Chi	9-H
		4937 Zeta Beta Tau	10-G
		4944 Delta Chi	9-H
		5010 Capstone College of Nursing	12-N
		5016 Child Development Research Center	10-L
		5017 Stallings Center (RISE Program)	11-L
		5018 University Medical Center and Student Health Center	11-K
		5020 600 University Blvd	11-L
		5024 700 University Blvd	11-M
		5370 Women's Softball Complex	7-L
		5372 Student Recreation Center	8-K
		5373 Recreation Fields and Restrooms	9-J
		5386 Recreational Tennis Courts	10-K
		5390 Varsity Tennis Courts	8-L
		6025 Law Center	14-I
		6082 Coleman Coliseum	15-G
		6085 Football Complex	14-G

LEGEND (cont'd)

6086 Crisp Indoor Practice Facility 14-G
 6116 Bailey Track Stadium 15-G
 6118 Frank M. Moody Music Building 11-H
 6218 Natatorium 13-F
 6219 Aquatic Center 13-F
 6299 ISSR Building 13-K
 6301 Bryant Conference Center 12-H
 6302 Alumni Hall 12-H
 6303 Paul W. Bryant Museum 12-G
 6305 900 Anna Ave 12-J
 6369 Sewell-Thomas Baseball Field 13-H
 7002 Parker-Adams Hall 11-E
 7004 Harris Hall 11-C
 7005 Wilson Hall 11-E
 7006 Rose Administration Building 10-D
 7012 Temple Tutwiler Hall 10-C
 7028 Barnwell Hall 12-D
 7046 Bryant-Denny Stadium 11-B
 7047 Doster Hall 10-D
 7054 Farrah Hall 11-F
 7059 Foster Auditorium 11-E
 7074 Osband Hall 11-E

7088 Little Hall 11-E
 7090 A.B. Moore Hall 11-E
 7096 Byrd Hall 11-D
 7110 New Hall / University Police Department 11-D
 7151 HES Design House 11-D
 7158 President's Mansion 11-D
 7202 East Annex 11-D
 7203 Adams Hall 11-D
 7205 Reese Phifer Hall (Communication Building) 10-C
 7206 Tutwiler Hall 13-C
 7213 Hayden-Harris Hall 11-F
 7244 Mary Burke Hall 12-F
 7298 Martha Parham Hall 12-E
 7344 Student Media Building 10-C
 7901 Alpha Chi Omega 11-C
 7902 Alpha Delta Pi 12-D
 7904 Alpha Gamma Delta 11-D
 7905 Alpha Omicron Pi 11-C
 7907 Gamma Phi Beta 12-C
 7910 Chi Omega 12-D
 7911 Delta Delta Delta 11-C
 7912 Alpha Kappa Alpha 12-D
 7916 Delta Zeta 12-C
 7918 Kappa Alpha Theta 11-C

7919 Kappa Delta 11-D
 7920 Kappa Kappa Gamma 12-C
 7923 Phi Delta Theta 10-B
 7925 Phi Kappa Psi 10-B
 7926 Phi Mu 12-C
 7927 Pi Beta Phi 11-D
 7932 Old Sigma Delta Tau 12-C
 7938 Zeta Tau Alpha 12-C
 9180 Health Department 14-K
 D284 Ridgecrest Parking Deck 6-C

 A Hotel Capstone 12-G
 B W.B. Jones Hall (Oil and Gas) 8-F
 C Baptist Campus Ministries 11-G
 D St. Francis University Parish / Catholic Student Center 12-F
 E Canterbury Chapel Episcopal Church and Student Center 11-F
 F University Lutheran Chapel 12-F
 G Wesley Foundation 12-F
 H Disciple Student Fellowship Center 13-E
 I B'nai B'rith Hillel Foundation 11-B
 J University Presbyterian Student Association 11-A

CLASS SCHEDULE BUILDING ABBREVIATIONS

Building	Number	Abbrv.
Mary Hewell Alston Hall	1032	AB
Adams Hall	7203	AD
AIME Building	1252	AIME
B.B. Comer Hall	1043	BC
Bidgood Hall	1031	BD
Beville Building	1249	BE
Bashinsky Computer Center and Bruno Business Library	1036	BL
610 Capstone Drive	1175	BOM
Oliver-Barnard Hall	1027	BR
Biology Building	1034	BY
Carmichael Hall	1003	CA
Child Development Center	5016	CD
Doster Hall	7047	DO
East Annex	7202	EA
Farrah Hall	7054	FA
Ferguson Student Center	1022	FE
Foster Auditorium	7059	FO
Garland Hall	1067	GA
Gallalee Hall	1155	GL
Gordon Palmer Hall	1170	GP
Graves Hall	1030	GR
H.M. Comer Hall	1245	HC
Houser Hall	1079	HO
Hardaway Hall	1072	HR
W.B. Jones Hall	2083	JO
Gorgas Library	1013	LB

Little Hall	7088	LI
Law Center	6025	LW
Lloyd Hall	1039	LY
Manly Hall	1099	MA
Coleman Coliseum	6082	MC
Frederick R. Maxwell Hall	2152	MH
McLure Education Library	1051	ML
Moody Music Building	6118	MM
A.B. Moore Hall	7090	MO
Martha Parham Hall	7298	MP
Morgan Hall	1107	MR
Natatorium	6218	NA
Nott Hall Annex	1033	NO
Nott Hall	1150	NT
Osband Hall	7074	OS
Child and Family Research Clinic	1160	PA
Paty Hall	2247	PATY
Reese Phifer Hall	7205	PH
Rowand-Johnson Hall	1108	RJ
Rodgers Library	1250	RL
Stallings Center	5017	SC
Mary Harmon Bryant Hall	1038	SCF
Kilgore House	1388	SH
Science and Engineering Complex	1254	SEC
Shelby Hall	1251	SHLB
Smith Hall	1172	SM

Student Recreation Center	5372	SR
Student Services Center	1021	SS
Russell Hall	1226	ST
ten Hoor Hall	2297	TH
Recreational Tennis Courts	5386	TN
Temple Tutwiler Hall	7012	TT
Toumey Hall	1199	TU
Julia Tutwiler Hall	7206	TW
University Medical Center	5018	UMC
Wilson Hall	7005	WI
Woods Hall	1214	WO

ADMISSIONS

The admission process is accomplished by completing the appropriate application for admission and furnishing the required credentials. You may apply online at [apply.ua.edu](#). For questions, please contact Undergraduate Admissions.

FRESHMAN AND TRANSFER APPLICANTS:

The University of Alabama
Office of Undergraduate Admissions
Box 870132
Tuscaloosa, AL 35487-0132
(205) 348-5666 or 1-800-933-BAMA
TDD (205) 348-2921
admissions@ua.edu
gobama.ua.edu
apply.ua.edu

GENERAL UNDERGRADUATE ADMISSION REQUIREMENTS

Admission to any undergraduate division of the University requires acceptable evidence of previous academic performance and scores on a recognized admission test. A medical history, including proof of current measles (MMR) and meningitis vaccinations and TB screening, must be submitted prior to enrollment for classes. The medical history form can also be downloaded from [shc.ua.edu](#). Also, any student whose first language is not English will be required to provide proof of language proficiency.

Applications for admission are accepted as early as one year prior to the anticipated date of enrollment. After an evaluation of the applicant's credentials, admission is granted into various categories, depending on the strength of the applicant's academic background. Once admitted, a student may enroll in courses in any term and must submit a final transcript. For this reason, prospective students should ensure that their application credentials are submitted to the Office of Undergraduate Admissions as early as possible.

The University of Alabama employs a competitive freshman admission process that includes reviewing and evaluating each application on an individual basis for an applicant's abilities as a scholar. Decisions about the potential for a student's academic success are based on ACT and/or SAT performance, high school grade point average and high school course schedule. The writing section of either the ACT or SAT is required. Applicants for freshman admission must submit official copies of their high school transcripts. Transfer applicants must submit official transcripts of all college-level work attempted. Currently, there is a \$40.00 nonrefundable application fee for freshman and transfer students. If admission is denied, the Office of Undergraduate Admissions may suggest alternative ways to meet admission criteria at a later time. More specific requirements for freshman, undergraduate transfer, transient, special, or international student admission appear in the sections that follow. Some University of Alabama academic divisions may have different policies or requirements regarding admission—see the appropriate division's section of this catalog for details.

Freshman Admission

Freshman orientation and registration. An orientation/registration program (Bama Bound) is provided for all new freshman students to assist them with the transition to college. Information about orientation and registration is mailed to each student after admission is granted. Each orientation session includes placement examinations, counseling, academic planning, career advising, and course selection and registration. Several orientation sessions are provided each year. To learn more, visit [orientation.ua.edu](#).

Preparation for college-level work. The University of Alabama Core Curriculum, required of all graduates, provides the foundation of every undergraduate degree program at the University. In addition to providing a solid understanding of the subjects covered, the core curriculum acquaints students with the ways knowledge is created.

The core curriculum includes academic courses in writing, the humanities, the fine arts, the social sciences, the natural sciences (including laboratory experience) and mathematics; it also requires knowledge of a

language other than English. To prepare for the core curriculum, applicants are encouraged to take maximum advantage of their high school experiences by accumulating as many academic units as is practical.

Minimum requirements for admission. In terms of educational preparation, 1) the college preparatory curriculum minimum unit requirements for regular admissions are

English	4 units
Mathematics	3 units, beginning with algebra I, algebra II and one unit of either geometry, trigonometry, or calculus
Social studies.....	4 units, including world history or comparable course
Natural science.....	3 units, including 2 units with a laboratory
Foreign language	1 unit
Other academic courses	5 units. Courses recommended are in fine arts or computer literacy, with additional courses in mathematics, science and foreign language.

The Advanced Academic Diploma awarded by Alabama high schools meets all University of Alabama course requirements. The Credit Based diploma awarded by Alabama high schools is accepted; however, students must have the preparatory curriculum minimum requirements as listed.

2) These course requirements are in addition to the requirements of a "B" average and an acceptable score on the ACT or SAT. The writing section of either the ACT or SAT is required.

The course/unit requirement also applies to transfer students who have completed fewer than 24 semester hours or 36 quarter hours of college-level courses.

Home-Schooled Students

The University of Alabama welcomes applications from students who are schooled in the home. Home-schooled applicants should meet the following requirements for admission:

1. Home-schooled applicants should meet the ACT/SAT, including the writing essay section, and grade point average (GPA) requirements of general admission if they present certified transcripts at the completion of their programs. Refer to the "General Undergraduate Admission Requirements" section.
2. Students who do not present certified transcripts must take the GED and meet the admission requirements as outlined in the University of Alabama GED Admission Policy. See "Non-graduates of high school" under "Special Programs" below.

Special Programs

Capstone Summer Honors Program. Designed to provide an enriched learning experience between the junior and senior years of high school, this residential campus-based program allows participants to earn college credit while benefiting from cultural, social and recreational opportunities. Admission is based on the high-school record and scores on either the ACT, SAT, or PSAT. Application should be made as early as possible in the spring term of the junior year. The program is conducted through the Honors College during the first session of summer school.

Early admission. Students who have exceptionally high grades (3.5 or higher grade point average) and at least a 28 ACT or a 1250 SAT (math and critical reading only) and who have strong endorsements from their high school principal, guidance counselor and parents or legal guardians may be considered for admission without completing the senior year of high school.

Concurrent enrollment. Students who meet the necessary requirements may attend The University of Alabama while still in high school. Students in area high schools may enroll as concurrent high school students/University freshmen. Typical students admitted to this program

have a "B+" grade point average, at least a 26 ACT or 1170 SAT (math and critical reading only) and the recommendation of their high school principal or guidance counselor and parents or legal guardians. Students take coursework in areas for which they have adequate preparation and the approval of their principal and/or counselor.

Dual Enrollment/Dual Credit Agreement. The University of Alabama participates in dual enrollment/dual credit programs with local boards of secondary education. Through these programs, certain high school students are allowed to enroll in college-level courses in order to earn credits that apply to both undergraduate degrees and high school diplomas. Students are eligible under the following conditions:

1. The student must be in grade 11 or 12 or have an exception granted by UA based on the written recommendation of the student's principal and the local superintendent of education and in accordance with Alabama administrative code regarding gifted and talented students.
2. The student must have a "B+" average, as defined by local board policy, in completed high school courses.
3. The student must meet the entrance requirements established by UA.

Students who are currently in high school and have concurrent college credit or dual enrollment or concurrent college credit, are not considered transfer students. Students must have one official transcript sent to the Office of the University Registrar directly from each college or university previously attended.

Non-graduates of high school. Admission may be granted to non-graduates of high school who are 18 years of age and have been out of high school for a minimum of one year. Applicants must score at least 510 on the General Educational Development (GED) Test and submit acceptable ACT or SAT scores. Applicants 23 years of age and older are required to score at least 510 on the GED test. In addition, they may be required to submit ACT or SAT scores for advising purposes.

Undergraduate Transfer Admission

Applicants who have attended other colleges or universities are considered transfer students, regardless of the period of enrollment or amount of credit earned. Students who are currently in high school and have dual enrollment or concurrent college credit are not considered transfer students. Students seeking to transfer to The University of Alabama must meet the following requirements:

- Students must have one official transcript sent directly to the Office of the University Registrar from each college or university previously attended. Faxed transcripts are not considered official transcripts.
- Students who have attempted fewer than 24 semester hours (or 36 quarter hours) of collegiate work must also have official copies of their ACT or SAT scores and final high school transcript submitted directly to the Office of Undergraduate Admissions.
- An average of "C" (2.0 on a 4.0 scale) or higher for all college-level work attempted is required for admission. College-level work does not include vocational, technical, or remedial/developmental course work. Some divisions may set slightly higher admissions standards. Students must be able to return to the last collegiate institution they attended.

Transferring from two-year colleges in Alabama. Students transferring from two-year colleges in the Alabama College System may contract with The University of Alabama under STARS (Statewide Articulation Reporting System). The STARS program will guarantee the transfer and applicability of the two-year college credit under the following restrictions:

- This agreement will be honored for a period of three years from the date of the agreement. The student will be required to satisfy the requirements for graduation as described in the undergraduate catalog in effect at the time of execution of this agreement, provided, however, that UA may change such requirements if the student is given a reasonable opportunity to comply with the changed requirements. The student may choose to comply with the requirements in effect at the time of transfer.
- Under this agreement, the student must be officially admitted and enrolled at UA immediately following his or her tenure at the two

year college at which the contract was initiated. Should the student enroll in another postsecondary institution during the interim, this agreement is void.

This agreement is subject to termination should changes in UA requirements be initiated by any agency outside University control. Such agencies include, but are not limited to, the State Department of Education, ACHE, SACS, NCATE, CLN, AACSB, ABET and other accreditation agencies.

Conversion of credits. The University of Alabama is on the semester system. Credits earned as quarter hours will be evaluated as semester hours. One quarter hour is equal to two-thirds of one semester hour—for example, a five-quarter-hours course equals three and one-third semester hours. However, when a student is seeking to transfer credit that will be applied toward degree requirements, final authority for evaluating that credit rests with the academic division, which may use a different formula.

Transfer student orientation and registration. Attendance at an orientation/registration session (Bama Bound) is required of each newly admitted transfer student. Considerable assistance is available at each session, and the groups are kept small to encourage individual attention. To learn more, visit orientation.ua.edu.

Distance Learning students are not required to attend orientation/registration. Distance Learning students should contact Academic Outreach, academicoutreach.ua.edu.

Transfers Within the University

Procedures governing transfers between academic divisions of the University are administered by the Office of the University Registrar. For further information, please refer to the section "Academic Records and General Academic Policies."

Admission of Special Category Students

Adult. Applicants who graduated from high school at least four years prior to the date of anticipated enrollment may be admitted to the University without the ACT or SAT, provided their high school grade point average is 2.5 or higher on a 4.0 scale. However, for placement purposes, the ACT or SAT may be required of all students who are enrolled.

Auditor. Applicants who wish to attend credit courses as auditors must follow standard admission procedures. They must be registered for the courses, must pay all required fees, are expected to attend all class meetings and must conform to all requirements of the instructor of the course. In certain cases, admission as an auditor may be granted without satisfaction of normal admission requirements; however, the University reserves the right to establish appropriate standards for such enrollment. Auditors may not receive credit applicable to the requirements for degrees.

Dean's admission. The deans of the University may, upon appeal, waive or modify conditions of admission for individual freshman and transfer applicants.

Crimson EDGE (Education Guarantees Excellence). This two-semester program helps students manage the transition to a university academic environment. Students in this category are not on probation but are limited to 12-14 credit hours during their first semester and must enroll in an academic support class. A Crimson Edge advisor in each college will help students determine appropriate course selection for the fall and spring semesters.

Irregular postgraduate. Applicants with baccalaureate or advanced degrees may be admitted on the basis of the appropriate degree. Standard admission procedures are followed.

Special student. Special student enrollment is a nondegree status. Special students may apply for admission as degree-seeking students by requesting a change of status and by meeting regular admission requirements. Students who have never enrolled in college are generally expected to have been out of high school for two or more years before enrollment at the University as special students. Students who are currently on academic probation or under academic suspension imposed by another college and who have not been enrolled in school for two years may be admitted with special permission. Enrollment in specific courses will be on a space-available basis. If a course has prerequisites, permission must be granted by the instructor before enrollment in the course. To continue as a special student beyond one academic year of continuous enrollment, after a break in enrollment, or beyond 12 semester hours of earned credit, permission must be granted by the dean of the school or college in which the special student is enrolled.

Transient student. Admission as a transient (visiting) student may be granted for any term. Standard application procedures must be followed. Approval may be given on the basis of an official statement of good standing from the last institution attended. Transient status may be granted for only one term.

Admission of International Students

Undergraduate applicants who are not American citizens should address all inquiries to The University of Alabama, Undergraduate International Admissions, Box 870132, Tuscaloosa, AL 35487-0132; international.admissions@ua.edu. Applicants who need to learn English or improve their English proficiency should write for information to The University of Alabama, English Language Institute (ELI), Box 870250, Tuscaloosa, AL 35487-0250. Correspondence concerning undergraduate admission should be initiated at least six months in advance of the anticipated date of enrollment.

Complete, properly translated official credentials are required. Applicants with post-secondary study completed outside the United States are encouraged to submit those credentials for a course-by-course evaluation to World Education Services (WES), Bowling Green Station, P.O. Box 5087, New York, NY 10274-5087 or contact WES at wes.org. This evaluation along with a course syllabus may expedite the decision to grant transfer credit. Evaluations received from credential evaluation agencies other than WES are subject to approval by the academic division reviewing transfer credit.

The University of Alabama requires students to obtain a minimum English test score or satisfactory completion of the English Language Institute (ELI) before a student may begin an academic program. The minimum score requirements on the TOEFL are 500 on the paper-based test and 61 on the Internet-based test. A score of 6.0 on the IELTS (International English Language Testing System) or at least a score of 54 on the Pearson's Test (PTE) are also acceptable to meet the language proficiency requirement for admission if the academic reading and writing modules are selected. Conditional admission may be offered to students who meet the academic and financial qualifications, but do not meet the TOEFL, IELTS or PTE score requirement. These students will be required to register full-time in the ELI until they meet the TOEFL, IELTS or PTE requirement or satisfactorily complete the ELI program.

English placement for non-native speakers of English. In order to place non-native speakers of English in appropriate writing courses, each such student who does not have credit for EN 101 from a regionally accredited U.S. institution with "C" or better will be given a University of Alabama language proficiency exam (EPPE). Results from the EPPE determine whether students must enroll in either an English Language Institute (ELI) course, or in the Department of English course that suits their demonstrated abilities.

The English courses prescribed (ELI, EN 120, EN 121, or a combination of these) must be completed in sequence, beginning with the first semester of the student's enrollment or when the course is offered at The University of Alabama, and the student must be continuously enrolled in these undergraduate courses until they are successfully completed. This policy applies to all non-native speakers entering The University of Alabama for the first time who do not have credit for EN 101 from a regionally accredited U.S. institution.

Students who have credit for EN 101 from a regionally accredited U.S. institution but do not also have credit for EN 102 are encouraged to register for EN 121 (rather than EN 102) at The University of Alabama.

Academic Second Opportunity

A student who has been separated from The University of Alabama for at least three academic years may petition the dean of his or her college to apply for readmission through "Academic Second Opportunity." The petition must be received in the dean's office prior to the last day of class for the semester in which the student returns to the University. If the petition is approved, the student will be readmitted regardless of previous scholastic performance, unless separation from the University resulted from academic misconduct. In cases of academic misconduct, readmission will be reviewed by the academic dean (or his or her designee) for the school or college in which readmission is sought.

If the application for Academic Second Opportunity is accepted, all previous academic work remains on the student's permanent record, but the grades for previous work are not used in computing the grade point average. Grades of "C" or higher earned during previous college attendance are computed as "passing hours" ("P") and may be applied to

major program, distribution and graduation requirements. Grades of "D" earned during previous college attendance may not be applied to major program, distribution, or graduation requirements. The student pursues his or her academic program with no University of Alabama or Higher Education grade point average, and thereafter is subject to the conditions of warning, probation and dismissal that govern all students. Once invoked, Academic Second Opportunity cannot be revoked and it may be awarded only once and may not be awarded retroactively. Students who are awarded Academic Second Opportunity are excluded from candidacy for the Latin honors designations of cum laude, magna cum laude, and summa cum laude. These honors may also be referred to as "university honors."

A student who has a degree from another institution but was previously a student at UA or who has a degree from UA is not eligible for consideration.

Readmission of Former Students

A former University of Alabama undergraduate student who has a break in enrollment, for more than two semesters, excluding summer, who wishes to return to the University must apply for readmission. An application for readmission is available online at apply.ua.edu and must be submitted with an application processing fee to the Office of Undergraduate Admissions.

Students who withdraw, co-op, or participate in the National Student Exchange program and who return in the immediate following semester are not required to apply for readmission. Students participating in an approved internship or in a Consortium Agreement through Student Financial Aid will not be charged the readmission fee due to a break in enrollment.

It is essential to the readmission process to include information about dates of prior attendance as well as the name and student number under which the student was registered at the University. A student who attended another institution following his or her last enrollment at The University of Alabama must submit an official transcript of work attempted at that other institution. The work attempted may be accepted at the University in accordance with the appropriate sections of this catalog. Students who were on scholastic probation at the end of their last enrollment at the University will be readmitted on scholastic probation. If the readmission application for a student who was academically suspended from the University is approved, that student will be readmitted on scholastic probation. International students who seek readmission must meet the above requirements and the requirements of the U.S. immigration law.

CREDIT FOR EXAMINATION PERFORMANCE AND EXPERIENCE

Credit by examination and credit for several types of out-of-class experiences are recognized by The University of Alabama. The maximum credit obtainable through all programs by placement is 45 semester hours, including, but not limited to, Advanced Placement (AP); College Level Examination Program (CLEP) General and Subject Examinations; placement in English; placement/performance in foreign languages; credit for prior military service; United States Armed Forces Institute (USAIFI); and Defense Activity for Nontraditional Education Support (DANTES) credit. Applicants must have their test scores sent directly to the Office of Undergraduate Admissions from the appropriate testing agency. No credit is awarded for performance on the American College Test (ACT) or the Scholastic Aptitude Test (SAT). See the following tables for specific information on AP and CLEP credit.

Transfer of credit by exam. All credit by exam presented by transfer students will be evaluated using the same standards that apply to students enrolled at this University. All transfer students who wish to transfer credit by exam must submit official scores to the Office of Undergraduate Admissions for evaluation before the credit may be awarded.

Advanced Placement (AP)

Core Curriculum Designations: **SB**=social and behavioral sciences; **HU**=humanities; **N**=natural science; **FC**=freshman composition; **FL**=foreign language; **MA**=mathematics; **HI**=history; **FA**=fine arts

Examination	Minimum Score	UA Course Equivalent	Credit	Core Designation
American History	3	HY 203 and HY 204	6	HI
American Gov. and Politics	3	PSC 101	3	SB
Art History	3 4	ARH 252, ARH 252 and ARH 253	3 6	FA FA
Art, Studio (General or Drawing Portfolios)	4	ART 110, ART 130, ART 131, and/or ART 210	0–6 ¹	—
Biology	3	BSC 108 and 109	8	N
Biology	4	BSC 114, 115, 116 and 117	8	N
Calculus AB	3	MATH 125	4	MA
Calculus BC	3	MATH 125 and MATH 126	8	MA
Chemistry	3	CH 104	4	N
Chemistry	4	CH 101	4	N
Chemistry	5	CH 101 and 102	8	N
Comparative Government and Politics	3	PSC 203	3	—
Computer Science A	4	CS 150:160:250	5	—
Computer Science AB	4	CS 260	3	—
Economics (Micro)	4 ²	EC 110	3	SB
Economics (Macro)	4 ²	EC 111	3	SB
English	3 4	EN 101 EN 101 and EN 102	3 6	FC FC
European History	3	HY 101 and HY 102	6	HI
French Language ³	3	FR 101	4	FL/HU
French Literature	3	FR 101 and FR 102	8	FL/HU
German ³	3	GN 103	4	FL/HU
German ³	4	GN 103 and GN 201	7	FL/HU
German ³	5	GN 103, GN 201 and GN 202	10	FL/HU
Human Geography	3	GY 110	3	SB
Latin–Catullus–Horace	3	LA 102	3	FL/HU
Music		No credit		—
Physics B	3	PH 101 and PH 102	8	N
Physics C–Mechanics	3	PH 105	4	N
Physics C–Electricity/Magnetism	3	PH 106	4	N
Psychology	3	PY 101	3	SB
Spanish Language ³	3	SP 101	4	FL/HU
Spanish Literature	3	SP 101 and SP 102	8	FL/HU
Statistics	3	ST 260	3	C
World History	3	HY 101 and 102	6	HI

¹Decision based on review of portfolio by Department of Art and Art History.

²Students scoring 3 must successfully complete the appropriate intermediate economics course (EC 308, EC 309) in order to receive credit for EC 110 and/or EC 111.

³Students may not receive credit for AP courses and placement credit for language study in high school.

International Baccalaureate (IB)

The University of Alabama recognizes International Baccalaureate credit with a grade of 5, 6, or 7 on the higher-level examinations (HL). Credit will be awarded on a course-by-course basis as approved by the department [some departments will award credit based on the subsidiary examination (SL)]. A list of approved courses and the required IB exam grade follows. The maximum credit obtainable by examination through all programs is 45 semester hours.

Core Curriculum Designations: **SB**=social and behavioral sciences; **HU**=humanities; **N**=natural science; **FC**=freshman composition; **FL**=foreign language; **MA**=mathematics; **HI**=history

Examination	Minimum Score	UA Course Equivalent	Credit	Core Designation
Art, Studio	5	ART 110, ART 210 —	3, 3	—
Art, General—portfolio	5	ART 130, ART 131	3, 3	—
Biology (SL)	5	BSC 114:115, BSC 116:117	4, 4	N
General Chemistry	5	CH 101 and CH 102	8	N
Computing Studies	5	CS 150, CS 160	2, 1	—
Economics	5	EC 110, EC 111	6	SB
English	5	EN 101 and EN 102	6	FC
Appropriate World History Exam (HL/SL)	5	HY 101	3	HI
Appropriate World History Exam (HL/SL)	5	HY 102	3	HI
Appropriate U.S. History Exam (HL/SL)	5	HY 203	3	HI
Appropriate U.S. History Exam (HL/SL)	5	HY 204	3	HI
Mathematics	5	MATH 115 and MATH 125	8	MA
Philosophy	5	PHL 100	3	HU
Physics	5	PH 105 and PH 106	8	N
Psychology	5	PY 101	3	SB

College-Level Examination Program (CLEP)

The University welcomes students from a wide variety of backgrounds and learning experiences. Many students come to our institution with a firm grounding in a particular discipline. We recognize their prior learning by accepting a full range of College-Level Examination Programs® (CLEP®) exams, which measure mastery of college-level, introductory course content.

The University recognizes CLEP examinations taken at any national CLEP test center. Examinations are administered on campus at Testing Services, 205 Student Services Center, (205) 348-6760. To schedule an exam, go to testing.ua.edu.

All divisions of the University may grant credit for CLEP Subject Examinations in lieu of enrollment in an equivalent course, provided that such credit is applicable to the degree program in which the student is enrolled. Students may take CBT CLEP Subject Examinations at any time during their college careers, provided they have not been enrolled in the

equivalent courses for more than 30 days. Credit may not be received for both the subject examination and its equivalent (either another examination or a course taken for credit). Approved CBT subject examinations and their UA course equivalents appear in the table below.

Core Curriculum Designations: SB=social science; HU=humanities; N=natural science; FL=foreign language; MA=mathematics; HI=history

CBT CLEP Subject Examination	Min. Score	UA Course Equivalent	Credit	Core Designation
History and Social Sciences				
History of the United States I: Early Colonization to 1877	52	HY 203	3	HI
History of the United States II: 1865 to the Present	52	HY 204	3	HI
Human Growth & Development	52	HD 101	3	SB
Principles of Macroeconomics	50	EC 111	3	SB
Principles of Microeconomics	50	EC 110	3	SB
Introductory Psychology	54	PY 101	3	SB
Introductory Sociology	52	SOC 101	3	SB
Western Civilization I: Ancient Near East to 1648	52	HY 101	3	HI
Western Civilization II: 1648 to Present	52	HY 102	3	HI
Foreign Languages				
French, Level 1 and Level 2				
Score of 50–55		FR 101 and FR 102*	8	FL/HU
Score of 56–61		FR 201	11	—
Score of 62–80		FR 202	14	—
German, Level 1 and Level 2				
Score of 50–55		GN 101 and GN 102*	8	FL/HU
Score of 56–62		GN 201	11	—
Score of 63–80		GN 202	14	—
Spanish, Level 1 and Level 2				
Score of 48–51		SP 101 and SP 102*	8	FL/HU
Score of 52–55		SP 201	11	—
Score of 56–80		SP 202	14	—
Science and Mathematics				
Biology	57	BSC 108 and 109 or BSC 114, BSC 115, BSC 116, and BSC 117	8	N
Chemistry	52	CH 101 and CH 102	8	N
Calculus with Elementary Functions	52	MATH 125	4	MA
Business				
Information Systems and Computer Applications	50	CS 102	3	—
Introductory Business Law	50	LGS 200	3	—

*FR 101/102, GN 101/102, and SP 101/102 must be considered as units. No credit is given for FR 101, GN 101, or SP 101 alone, or for scores less than those listed above.

Transfer Credit for Service Experiences

A variety of educational opportunities available through formal military service, school training programs and off-duty educational activities are recognized as sources of college credit. Academic divisions of The University of Alabama may accept such credit for transfer, subject to any restrictions established by each division.

The United States Armed Forces Institute (USAFI), the Defense Activity for Nontraditional Education Support (DANTES) and other agencies report activities that may provide college credit. The Guide to the Evaluation of Educational Experiences in the Armed Services (American Council on Education) is an additional guide to determining whether a service-related activity may provide college credit.

Credit for Prior Learning

Students enrolled in the External Degree Program of New College in the College of Arts and Sciences may be eligible for a limited amount of credit for prior learning.

Foreign Language Credit

Students may receive credit or higher placement for prior foreign language experience. Detailed explanations are available from the Department of Modern Languages and Classics.

HIGH SCHOOL SERVICES

The Office of Undergraduate Admissions assists high school principals, counselors and teachers in the planning and development of enrichment programs in a number of high school subjects, including art, forensics, foreign languages, health and physical education, journalism, music and the sciences. Workshops, clinics, institutes, skills demonstrations, conventions and conferences, held both regionally and on the University campus, are developed cooperatively by school leaders and representatives of The University of Alabama faculty and the Office of Undergraduate Admissions.

ACADEMIC COMMON MARKET OF THE SOUTHERN REGIONAL EDUCATION BOARD

The Academic Common Market is an association of 16 states (Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia and West Virginia). The ACM allows public colleges and universities in member states to share specified academic degree programs. This is accomplished through an exchange of students across borders at in-state tuition rates, with the receiving institution paying the out-of-state portion of tuition. Approximately 30 programs are available to UA students through the ACM; the Colleges of Commerce and Business Administration and Human Environmental Sciences do not participate; and no programs will be added in the future. In the table at <http://acm.ua.edu>, there is a list of the degree programs available at UA for a particular state's residents.

UA freshmen or undergraduate transfer students must have earned at least a 25 ACT composite score or 1130 SAT composite score (math and critical reading only) plus at least a 3.0 overall high school GPA to be considered for an ACM tuition grant at UA. The admission test score and high school GPA both are minimum criteria, and there is not an appeal process for students failing to meet one or both. Students must have been admitted to UA before they can apply for an ACM tuition grant. Students complete the brief application form at the UA ACM Web site to initiate ACM consideration. Graduate students must have been admitted to one of the selected masters or doctoral programs appearing in the UA table of approved ACM programs in order to apply for an ACM tuition grant.

For continuing support after the first semester and for every subsequent semester of ACM support, each UA ACM undergraduate or graduate student must maintain at least a 3.00 overall GPA on all UA coursework attempted. Grades earned on transfer courses are not considered in the UA overall GPA for ACM purposes. Maintaining a 3.0 or higher GPA is in addition to the long-standing requirement that an ACM-supported student must maintain residency in the same state and stay in the same major in which the student was certified initially.

The University of Alabama Graduate School administers all ACM programs and has a designated institutional ACM coordinator. For complete information about the ACM at UA, visit <http://acm.ua.edu>.

ACADEMIC RECORDS AND GENERAL ACADEMIC POLICIES

OFFICE OF THE UNIVERSITY REGISTRAR

The University of Alabama has long subscribed to the ethical principles for confidentiality of student records that are recommended by the American Association of Collegiate Registrars and Admissions Officers. Following passage of the Family Education and Privacy Act of 1974 (the "Buckley Amendments"), and of subsequent amendments in 1988, 1990, and 2009 the University established policies and procedures to implement that legislation. The statement of these policies can be accessed on the Web at <http://registrar.ua.edu/privacy.html>.

For more information, contact The University of Alabama, Office of the University Registrar, 206 Student Services Center, Box 870134, Tuscaloosa, AL 35487-0134; e-mail: registrar@ua.edu; Web site: registrar.ua.edu.

STUDENT RESPONSIBILITY

Thorough knowledge of the academic regulations and policies of the University and its academic divisions is essential for all students. Each student is expected to become familiar with the University of Alabama undergraduate catalog and to consult with the academic advisors provided by the student's division.

Each student is responsible for selecting and registering for the courses that (a) are needed to maintain reasonable progress toward the desired degree; (b) will satisfy all requirements for the desired degree by the time the student expects to graduate; and (c) conform to University regulations. Students are expected to pursue successful completion of the courses for which they register.

Students are also responsible for the following:

- The student must maintain a current mailing address and a local residence address on file. Students may make address and phone number updates at myBama.ua.edu.
- The student must maintain his/her UA Alert via the Student Tab in myBama.
- The student must respond promptly to all communications received from the University of Alabama.

REGISTRATION

Prior to registering for classes each term, students must obtain academic advising using the procedures established by each division.

Currently enrolled students normally register in October for spring semester classes and in March for summer term and/or fall semester classes. A schedule for academic advising and for registration can be accessed on the Web at <http://registrar.ua.edu/registration/>. New students register for classes during a new-student orientation session. The Office of Orientation and Special Programs provides new students with information about orientation sessions and information is available online at orientation.ua.edu. Late registration is permitted until approximately one week after classes begin; there is a penalty fee for late registration.

Courses that receive inadequate registration for a given semester may be dropped from the schedule of classes before the date for enrollment confirmation and tuition payment and/or before the first week of classes.

The semester system. The academic year is divided into two semesters and one summer term. The first, or fall, semester begins in late August and ends in December. The second, or spring, semester begins in January and ends in May. Fall and spring terms consist of one 10-week session (referred to as Fall II or Spring II) and the full term. The summer term consists of Interim session, two five-week summer sessions and one ten-week summer session. The summer term begins in mid-May and ends in August. The Interim session is the first three weeks of the summer term. (The University's current academic calendar can be viewed online at ua.edu by first selecting "A" from the site's index and then selecting "Academic Calendar.")

Credit for courses completed is awarded in semester credit hours. The number of semester credit hours awarded for a course may vary from one academic department to another depending on class hours, contact hours, outside-the-classroom work, practical or experimental work and laboratory work.

Course hour load in the fall and spring terms. During the fall and spring semesters, the normal class hour load for a full-time undergraduate student who is not on scholastic probation is 12–17 credit hours each semester. A student who has earned at least 12 credit hours at The University of Alabama and has maintained a grade point average of "B" (3.00) or higher for all work attempted at The University of Alabama may enroll for more than 17 hours. The maximum load for which a student may enroll in one semester is 21 hours; however, an academic division may impose additional restrictions on class hour loads. The following policies also govern the class hour load during the fall and spring semesters:

- A senior who is on academic warning may enroll for a maximum of 17 credit hours during the semester in which he or she will complete degree requirements.
- A senior who is not on academic warning may enroll for a maximum of 21 credit hours during the semester in which he or she will complete degree requirements.
- The maximum load for which an entering freshman or transfer student may register during the first term at The University of Alabama is 17 hours.

Course hour load in the summer term. During the summer term, the normal class hour load for undergraduate students is 6 credit hours for one five-week session or 12 credit hours for the summer term. Undergraduate students may enroll for a maximum of 7 credit hours in each of the two summer sessions that make up the summer term. The total load in a summer term may not exceed 17 credit hours, including Interim session and 14 credit hours, including both courses that last for one summer session (five-week courses) and courses that run throughout the summer term (10-week courses). Full-time enrollment for the summer term is 12 hours.

CLASSIFICATION OF STUDENTS

University of Alabama students are classified as follows:

Undergraduate Students

Freshman	0–30 semester credit hours earned
Sophomore.....	31–60 semester credit hours earned
Junior.....	61–90 semester credit hours earned
Senior	91 or more semester credit hours earned

Law Students

Second-year law student.....	30 hours earned in law courses
Third-year law student.....	56 hours earned in law courses

Upper division and lower division. Certain colleges and schools within the University recognize two enrollment categories, upper division and lower division. To progress from the lower division to the upper division in any college or school, the student must meet all requirements specified by that college or school. Admission to the lower division in a college or school does not guarantee progression to the upper division. Each student should consult academic advisors in the college or school of his or her enrollment to learn about the requirements for progression to the upper division.

TRANSFERS WITHIN THE UNIVERSITY

A student registered in an undergraduate division of The University of Alabama who has earned fewer than 45 semester hours may transfer to another undergraduate division. A student who has earned 45 or more semester hours may transfer to another undergraduate division according to the rules established by the division to which he or she is applying. Credit will be given for courses in which a passing grade has been earned, provided that the courses transferred are appropriate to the new curriculum. Credits accepted for graduation are determined by the academic division into which the transfer is made.

Changes in the student's major(s) and minor(s) must be registered with the new academic division immediately following the transfer. Transfers between academic divisions will not be permitted once the registration process has been completed for a given term. At the discretion of the school or college concerned, a student may, upon entering another division of the University, petition to discard all credit previously earned. This recourse is limited to students who have attempted no more than 20 semester credit hours of work.

TRANSFER CREDIT

Transferability and applicability of college credits. Transferability refers to the conditions under which the University accepts credits from other postsecondary institutions for inclusion in the student's record. Applicability of credit toward a degree refers to the prerogative of the academic divisions to count specific credit toward the fulfillment of a student's degree requirements.

- Collegiate work will be considered for transfer credit from postsecondary institutions that are fully accredited by regional accrediting associations and that offer the baccalaureate degree or associate's degree leading to the baccalaureate degree.
- Collegiate work will be considered for transfer credit from postsecondary institutions that are fully accredited by regional accrediting associations and that offer the baccalaureate degree or associate's degree leading to the baccalaureate degree.
- Collegiate work from postsecondary institutions not fully accredited nor in candidacy status for accreditation from regional accrediting associations will be considered for transfer credit only when approval is recommended by the dean of the academic division of the University in which the student seeks to enroll. If the work is approved for transfer, the credit will be accepted on a provisional basis.
- Provisional credit will be applied as appropriate to the student's degree if an average of "C" or higher is earned for a year of academic work as a full-time student.
- In the case of the part-time student, a "C" average or higher must be earned for work completed from the time of initial enrollment through the semester (summer included) in which a total of at least 24 semester hours of work is completed at the University.
- A student who transfers within the University will have his or her provisional credit applied as appropriate to the curriculum of the division into which he or she transfers.

Applicability of credit toward the degree. Transfer credit will be applied as appropriate to a student's degree program. The authority to apply transferred credit toward degree requirements rests with the academic division of the student's intended major.

If a student chooses to transfer to another academic division within the University, credit previously earned at another postsecondary institution will be reevaluated and applied as appropriate to the student's new degree program. Transfer students will have no more transfer credit applied to the degree than they would have been permitted to earn in the division of the University into which they are admitted.

A minimum of 50 percent of the coursework required to earn a bachelor's degree at the University of Alabama must be earned at a bachelor's degree granting institution (four-year college or university), and a minimum of 25 percent of the coursework required for the degree must be earned at The University of Alabama. Students must consult the Dean's Office of the college granting the degree for the specific number of hours required for that degree. NOTE: A few exceptions to this 50 percent rule are in place, such as in the College of Nursing under the STARS agreement with all Deans of Nursing programs in the State of Alabama.

Transfer students who earn a grade of "D" on transferable courses may apply these courses to their degree requirements. All transferable coursework will be included in the student's grade point average, but only transfer courses with a grade of "D" or higher will be allowed to meet subject requirements and degree requirements.

Any transferable course with a grade of "D" or higher is acceptable at The University of Alabama with the exception of English composition and introductory math courses. Specific math courses where a "D" grade in transfer will NOT be accepted are as follows: MATH 100, MATH 110, MATH 112, MATH 113 and MATH 115.

The policies and procedures of UA's academic divisions for determining grade point average and applying transferred credit are discussed in each division's section of this catalog.

ACADEMIC BANKRUPTCY

Academic bankruptcy involves a student's request to retroactively withdraw from one academic term of work because of extreme personal, emotional, or financial circumstances so devastating that it became impossible for the student to perform academically at a level approximating the usual record of achievement. The summer sessions are considered one academic term. The following specific regulations apply to any petition for academic bankruptcy:

- Academic bankruptcy is never granted for an academic term in which the student is currently enrolled, nor for the previous academic term.
- Petitions must be filed prior to graduation.
- No more than one petition for academic bankruptcy may be approved during the student's academic career at The University of Alabama.
- If the petition is approved, the grades for all courses taken during the academic term in question will be recorded as "W" ("Withdrawn").
- The application for academic bankruptcy is filed in the dean's office of the academic division in which the student is enrolled. Once a student has been enrolled in an academic division for two terms, that division has the authority to grant academic bankruptcy for a term in which the student was enrolled in another academic division.

GRADES AND GRADE POINTS

Grades are awarded for University of Alabama undergraduate courses according to the following table of letter grades and values:

Grade	Value	Grade	Value
A+	4.33	D	1.0
A	4.0	D-	0.67
A-	3.67	F	0
B+	3.33	I	Incomplete
B	3.0	N	No Grade Reported
B-	2.67	NC	No Credit
C+	2.33	IP	In Progression
C	2.0	P	Pass
C-	1.67	W	Withdrawn
D+	1.33	DO	Dropped Out
		NA	Never Attended (only assigned after census)

Policy on grading. In undergraduate courses at The University of Alabama, passing grades are "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "C-," "D+," "D," and "D-." The "F" and "I" ("Incomplete") grades cannot be modified with a "+" or "-." Four grade points are given for each hour of "A"; three for each hour of "B"; two for each hour of "C"; and one for each hour of "D." The plus sign added to a grade raises the points awarded by one-third point per hour. A minus sign lowers the points awarded by one-third point. For example, each hour of "C+" earns two and one-third (2 1/3) grade points. Where departmental or other regulations require a minimum grade in a course or courses (for instance, the requirement to complete all prerequisites with grades of at least "C") a minus sign shall be appended to the minimum grade: that is, a "C" indicates "any kind of C." The syllabus for each individual University of Alabama undergraduate course specifies the criteria upon which work in the course will be graded. NOTE: A cumulative grade point average of 4.0 is the highest GPA an undergraduate can receive.

In all freshman composition courses, the following grades may be reported: "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "C-," and "NC" ("No Credit"). The "NC" grade is not included in the computation of the student's grade point average. A grade of "C-" or higher is required in all freshman composition courses and is a prerequisite for advancement to another English course at The University of Alabama.

In introductory math courses the following grades may be reported: "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "C-," and "NC" ("No Credit"). Specific math courses where a grade of "NC" may be reported are MATH

100, MATH 110, MATH 112 and MATH 115. The "NC" grade is not included in the computation of the student's grade point average. A grade of "C-" is required in math introductory courses and is a prerequisite for advancement to another math course at The University of Alabama.

In computing the number of credit hours attempted, each enrollment in a course is counted (any required course in which an "F" is earned must be repeated and passed; again, hours in freshman composition for which "NC" was reported are not included in GPA computations). In some academic divisions, a student who has obtained the dean's permission may repeat a course for which he or she has already earned credit. Each enrollment is counted in the number of credit hours attempted and in the computation of the grade point average; however, only the final enrollment may be applied to the requirements for the degree.

Incompletes and failures. If a grade of "F" is earned in a required course, the student must repeat the course and earn a passing grade in order to receive credit that will be applied to the requirements for the degree. Grades of "I" ("Incomplete") must be removed within 12 months of the end of the term in which they were awarded but prior to the student's graduation or the grade of "I" will be changed to "F." The "I" may not be used as a means to re-enroll in a course during a subsequent semester. A grade of "I" may not be used to satisfy a prerequisite requirement.

Pass/fail option. A student who is in good academic standing may request permission to receive a grade of "P" ("Pass") or "F" ("Fail") for a course, instead of the conventional "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "C-," "D+," "D," "D-," or "F." A grade of "P" does not affect the grade point average; however, a grade of "F" received in a course that the student has chosen to take under the pass/fail option is computed in the grade point average. Use of the pass/fail option is subject to the following regulations:

- The student must be a sophomore, junior, or senior with a grade point average of 2.0 or higher in order to use the pass/fail option.*
- Only elective courses may be taken pass/fail.
- A maximum of four courses or 12 credit hours (whichever comes first) may be taken pass/fail while a student is earning an undergraduate degree.
- Only one course each fall semester, spring semester and summer term may be taken pass/fail.
- Once the deadline to add a course has passed, a student may not rescind the decision to take a course with the pass/fail option.
- A transfer student must have completed at least 15 credit hours at The University of Alabama with a grade point average of 2.0 or higher in order to use the pass/fail option.

*These regulations apply only to courses for which the student elects the pass/fail option; courses that are offered only on a pass/fail basis are exempted.

NA/DO grades. A "DO" (dropped out) grade is assigned when the student has attended at least one class meeting or has participated in a class activity and has subsequently stopped attending or participating. The "DO" grade is converted to a grade of "W" at the end of the term. The "DO" grade will not be displayed on the transcript.

A grade of "NA" (never attended) is assigned when it has been determined that the student has never attended or participated in any class meeting or activity. The grade of "NA" is only assigned after the official University census date. The grade of "NA" will carry the same effect as a grade of "W" and will appear on the transcript.

HONORS

A dean's list of superior students is compiled and published at the close of each semester. To be included in the Dean's List, a student must have a grade point average of at least 3.5 for a minimum of 12 credit hours earned in a fall or spring semester, or in a summer term. All students carrying Dean's List honors will have this accomplishment indicated on their University transcripts.

The President's List recognizes students who make the Dean's List with 4.0 grade point averages. The President's List is not a separate honor and it is not indicated on a student's University transcript.

Students' scholastic achievements may be further recognized by election to national scholastic honor societies.

At graduation, the Latin honors designations cum laude (3.5 GPA but less than 3.7 GPA), magna cum laude (3.7 GPA but less than 3.9 GPA), and summa cum laude (3.9 GPA or higher) based on the UA only institutional grade point average and a minimum of 45 UA semester hours

distinguish students who have qualified in their academic divisions for these designations. Latin honors apply to the first undergraduate degree only regardless of where the first degree is earned.

Students who have been approved for Academic Second Opportunity admission are not eligible for Latin Honors designation.

Students who have been approved for academic bankruptcy (one semester) are eligible for Latin Honors.

NOTE: The University of Alabama only transcribes Latin honors. Membership in honorary organizations; departmental/college/school designations, honors and awards; or other non-academic distinctions are not indicated on the University transcript.

EXAMINATIONS AND REPORTS

Final examinations are held at the end of each term. The final examination schedule may be found at mybama.ua.edu. In addition, one or more announced tests may be administered in a class during each term. At the beginning of each semester, the student should review the published final examination schedule and consult with his or her professors about examination requirements as well as the dates and times of final examinations.

Deferred examinations are administered at the beginning of each term for the purpose of removing grades of "I" ("Incomplete"). A schedule of deferred examinations is posted well in advance of the beginning of the semester. (See also "Incompletes and failures" under "Grades and Grade Points" above.)

At the close of each term, students can access their grades on the Internet at mybama.ua.edu.

TRANSCRIPTS

Official transcripts are issued by the Office of the University Registrar to recognized institutions and agencies that require these documents. Official transcripts are issued and mailed only upon the involved student's written request; they are not issued for persons who have financial obligations to the University. A fee is charged for each transcript. Faxed transcripts are available but are not considered official documents. There is an additional charge for each faxed transcript and for the official document mailed subsequently.

RECORDS POLICY FOR STUDENTS WITH UNCLEARED FINANCIAL OBLIGATIONS

Students with returned checks. A student who is withdrawn from the University because of returned checks may not be reinstated for the current term, and all financial obligations to the University must be cleared before the student will be permitted to enroll for a subsequent term. Students who are withdrawn from their courses based on these circumstances will have grades of "W" entered on their transcripts.

Other students. Students whose financial obligations to the University are not the result of returned checks will not be withdrawn, but they will be subject to the following policies:

- Grades will be assigned by faculty members and will be entered in the student's permanent record.
- Transcripts will not be released until financial obligations to the University are cleared.
- A student's enrollment will not be confirmed until financial obligation has been resolved.
- When all financial obligations are resolved, the student is again eligible to receive transcripts.

CODE OF ACADEMIC CONDUCT

Academic Honor Code

All students in attendance at The University of Alabama are expected to be honorable and observe standards of conduct appropriate to a community of scholars. The University of Alabama expects from its students a higher standard of conduct than the minimum required to avoid discipline. At the beginning of each semester and on tests and projects, at the discretion of the course instructor, each student will be expected to sign an Honor Pledge.

The Academic Honor Pledge reads as follows: *I promise or affirm that I will not at any time be involved with cheating, plagiarism, fabrication, or misrepresentation while enrolled as a student at The University of Alabama. I have read the Academic Honor Code, which explains disciplinary procedures that will result from the aforementioned. I understand that violation of this code will result in penalties as severe as indefinite suspension from the University.*

Academic Misconduct

Academic misconduct includes all acts of dishonesty in any academic or related matter and any knowing or intentional help, attempt to help, or conspiracy to help, another student commit an act of academic dishonesty. Academic dishonesty includes, but is not limited to, the following acts, when performed in any type of academic or academically related matter, exercise, or activity:

- **Cheating:** using or attempting to use unauthorized materials, information, study aids, or computer-related information
- **Plagiarism:** representing the words, data, works, ideas, computer programs or output, or anything not generated in an authorized fashion, as one's own
- **Fabrication:** presenting as genuine any invented or falsified citation or material
- **Misrepresentation:** falsifying, altering, or misstating the contents of documents or other materials related to academic matters, including schedules, prerequisites and transcripts.

Except in divisions that have an alternate academic misconduct policy that has been approved by the Provost/Executive Vice President for Academic Affairs, academic misconduct cases shall be resolved by the academic misconduct monitor (appointed by the academic dean) or the academic dean of the division in which the alleged action took place. Appeals from the monitor's decisions may be made to the academic dean; appeals from the academic dean's decisions may be made to the Office for Academic Affairs.

Penalties for academic misconduct can range from a reprimand to a penalty as severe as suspension for a definite time or even indefinite suspension. Indefinite suspension normally requires a minimum of one semester, after which students may appeal for reinstatement. Academic deans have the authority to impose the full range of penalties. Divisional academic misconduct monitors may impose penalties only after receiving a voluntary written confession unless otherwise designated by the Dean. Academic misconduct monitors are authorized to impose penalties up to but not including suspension. All persons who admit to or are found guilty of an academic offense for which a penalty less than an indefinite suspension is imposed will receive a penalty of indefinite suspension if they admit to or are found guilty of another offense of academic misconduct. In all cases that involve suspension as a penalty, the Office of the University Registrar will be notified immediately of the suspension and a hold will be placed on the student's record to prevent further enrollment.

A penalty of indefinite suspension is mandated for a finding of guilt on all second offenses. All second offense accusations are referred directly to the academic dean of the College for resolution. "Second offense accusations" assume resolution of first offenses (i.e., a finding of guilt) and that students have been afforded the opportunity to learn from the first offense. Multiple misconduct accusations, where the initial accusations have not been resolved, may result in a penalty more severe than is typical in first offenses, including indefinite suspension. For second-offense cases that are in progress at the beginning of a semester, a student will be allowed to enroll and continue through completion of semester even if the outcome of the accusation is suspension.

If an academic misconduct case is underway during a student's final semester, the awarding of the degree may be dependent upon the resolution of the case.

The complete Academic Integrity Policy may be found at www.studenthandbook.ua.edu/conduct.html.

ACADEMIC WARNING AND ACADEMIC SUSPENSION

Scholastic Progress Standard

In order to monitor students' progress toward the baccalaureate degree, The University of Alabama employs the Scholastic Progress Standard (SPS). The SPS sets the minimum required grade point average (GPA) (for all hours completed at The University of Alabama) for freshman, sophomore, junior and senior students. Students are advised that these are minimum GPA requirements for continuing at the University; to meet divisional graduation requirements, higher grade point averages may be needed.

Grade point averages are computed on the following grades: "A," "B," "C," "D," "F," or "I" and any pluses or minuses that appear on the record. In computing a grade point average an "I" counts as an "F" until replaced by the earned grade. A grade of "P" does not enter into the computation.

Required Minimum Grade Point Average on Academic Work Attempted at The University of Alabama

Credit Hours Earned*	Required University of Alabama GPA
0–30	1.50
31–60	1.70
61–90	1.90
91 or more	2.00

*Includes transferred credit

Sample Calculation of GPA

Quality hours enrolled in ¹	Grade received	Grade points awarded ²	Quality hours earned ¹
3	A	12.00	3
4	B-	10.38	3
3	F	0	3
3	C	6.00	3
3	D+	3.99	3

Calculation

$$\text{Grade points} \div \text{Quality hours enrolled in} = \text{Grade point average}$$

$$32.67 \div 16 = 2.04 \text{ GPA}$$

¹Quality hours do not include courses graded "Pass."

²Grade points are assigned as follows: A+=4.33, A=4.0, A-=3.67, B+=3.33, B=3.0, B-=2.67, C+=2.33, C=2.0, C-=1.67, D+=1.33, D=1.0, D-=.67, F=0, WF=0. The cumulative grade point average will not exceed 4.0.

ACADEMIC WARNING

A student will be placed on academic warning if his or her cumulative University of Alabama grade point average (GPA) is below 2.0 but above the appropriate scholastic progress standard (SPS).

The purpose of the academic warning is to alert students to improve their academic performance and to introduce students to available academic support.

Students placed on academic warning must meet with their academic advisors by **March 1** for warnings issued at the end of fall semester and by **August 1** for warnings issued at the end of spring semester.

Academic warning does not restrict students' ability to register for the upcoming semester or the summer term.

ACADEMIC SUSPENSION

A student whose cumulative University of Alabama GPA at the end of the spring semester is below the appropriate SPS will be suspended.

The suspended student will be allowed to enroll in summer term at UA in order to improve his or her University of Alabama grade point average. If improvement results in compliance with the SPS, the student will be reinstated for the subsequent semester, but the previous suspension will be marked on the permanent academic transcript.

The first suspension is for one semester. Subsequent suspensions are indefinite.

A student may appeal first or subsequent suspensions to his or her college's dean or dean's designee.

- A student suspended for the first time must initiate the appeal by August 1. The approval of the appeal does not alter the fact of the suspension and such will appear on the student's permanent academic transcript.
- A student suspended for the second or subsequent time must initiate the appeal at least two weeks prior to the semester in which the student is seeking to enroll. The approval of the appeal does not alter the fact of the suspension and such will appear on the student's permanent academic transcript.
- All decisions on reinstatement are based on the University of Alabama cumulative GPA, significant improvement in the most recent academic terms, feasibility of degree completion, individual circumstances and previous agreements between the student and his or her academic college.

Students who are suspended are encouraged to use the time of the suspension in ways that assist their academic progress. Students may not attend class or enroll in correspondence courses. Students may study in order to finish courses in which they have earned incomplete ("I") grades and may work with faculty members in this process. Students may also address other non-academic problems that have impeded their progress.

REINSTATEMENT PROCEDURES

Any student returning for the first regular academic term immediately following the semester of active suspension who has not been enrolled in any other institution of higher education following the suspension from The University of Alabama must complete and submit an application for readmission according to published procedures and deadlines.

Any student returning for the first regular academic term immediately following the semester of active suspension who is or has been enrolled in any other institution of higher education following the suspension from The University of Alabama must complete and submit an application for readmission and official transcripts from each such institution.

Any student returning for any academic term after the first regular academic term immediately following the semester of active suspension must complete and submit an application for readmission whether or not he or she is or has been enrolled in any other institution of higher education following the suspension from The University of Alabama. If the student is or has been enrolled elsewhere, he or she must provide official transcripts from each such institution with the application for readmission.

STUDENT-ATHLETE SATISFACTORY PROGRESS

A student-athlete who has completed at least one academic year in residence at The University of Alabama shall be required to satisfy minimum academic progress requirements for continuing athletic eligibility. In addition to the stated academic requirements for continued enrollment at The University of Alabama, a student-athlete must satisfy the academic progress requirements of the Southeastern Conference and of the National Collegiate Athletic Association in order to remain eligible for athletics-related financial aid and for practice and participation in varsity sports.

ABSENCE FROM CLASS AND FAILURE TO COMPLETE CLASS WORK

Students are expected to attend all classes for which they are registered. Class attendance is regarded as an academic matter, and the use of attendance records in grading (or for other purposes) is left to the discretion of the faculty member responsible for the course, as explained in the course attendance policy written and distributed by the faculty member. The faculty member is responsible for handling any excuses for absences from his or her class.

WITHDRAWAL

Withdrawal from the University. A student may withdraw from the University through the last day of classes in the fall and spring semesters or summer term following clearance by the Office of the University Registrar with two exceptions. Nursing and Law students seeking to withdraw must also gain the approval of their dean. A withdrawal from the University occurs during summer term only if the student withdraws from all sessions of the term. The withdrawal process is initiated in the Office of the University Registrar, located in 206 Student Services Center. The "Tuition and Other

Expenses" section of this catalog provides information regarding the effects of withdrawal upon tuition and fee payments and financial aid.

No notation of courses attempted is made on the permanent record of a student who withdraws from the University during the change of schedule period (when a course can still be added). After the change of schedule period, a grade of "W" ("Withdrawn") is assigned for all courses in which the student was enrolled. A student may not use this policy for courses in which penalty grades were assigned as a result of academic misconduct. In all cases, the withdrawal date is noted on the student's permanent record.

Withdrawal for medical reasons. A designated physician or his designee at the University of Alabama Student Health Center handles all medical withdrawals and makes the decision to grant or not to grant them. Medical withdrawals are of two types:

1. Regular medical withdrawal—A withdrawal for the current semester:
 - It requires medical documentation from a private physician, psychiatrist, psychologist, or therapist. If you have not been seen at the University of Alabama Student Health Center, a letter from your outside provider is required.
 - It requires documentation from providers to the designated physician. Documentation may be by mail, by fax, or hand-delivered, but it must be in writing. This documentation must specifically recommend withdrawal and it must give a specific date.
 - Medical withdrawal cannot be granted if any final examinations for the current semester have been taken.
2. Retroactive medical withdrawal—A withdrawal for a previous semester:
 - It requires medical documentation from a private physician, psychiatrist, psychologist, or therapist, or a University of Alabama Student Health Center physician, psychologist, or counselor who treated the student during the semester requested.
 - It requires documentation from providers to the designated physician. Documentation may be by mail, by fax, or hand-delivered, but it must be in writing. This documentation must specifically recommend withdrawal and it must give a specific date.
 - It requires documentation from the dean of the division in which the student is enrolled that no final examinations were taken for the semester in question.

The function of the designated physician is to evaluate the medical documentation and make a decision based on the documentation provided. A request to withdraw from a course ("drop") or to reduce your academic load is not a medical withdrawal and the authority to grant the drop lies with the dean of the division in which the student is enrolled. If requested, documentation can be provided to the dean regarding the medical problem treated at the University of Alabama Student Health Center. If treatment has not occurred at the University of Alabama Student Health Center, documentation from the outside provider will be required.

The University of Alabama Student Health Center has no authority to grant a medical withdrawal if there is a medical condition requiring withdrawal and final examinations have been taken. Such a situation must be handled as academic bankruptcy through the dean of the division in which the student is enrolled.

A notation of "W" is entered on the permanent record of the student for all withdrawals from the University for medical reasons.

Withdrawal from a course ("dropping"). A student may withdraw from, or drop, an individual course until the end of the tenth week of a fall or spring semester, the second week of Interim session, the third week of a five-week summer session, or the fourth week of a 10-week session. After this period, students are expected to maintain their course loads.

A student contemplating withdrawal from a course is strongly encouraged to contact their academic advisor before changing their academic schedule inasmuch as it can result in delayed graduation. Also, dropping below full time status* may impact insurance [health & auto], financial aid, and scholarships.

*Full time status is 12 credit hours for undergraduate students, 9 credit hours for graduate students, and 10 credit hours for law students.

A student may not withdraw from or drop individual courses in which penalty grades were assigned as a result of academic misconduct.

No permanent notation is made of a course that is dropped during the change of schedule period. A course dropped from the end of the change of schedule period to the end of the tenth week of a fall or spring semester, the end of the second week of Interim session, the end of the third week of a five-week summer session or the end of the fourth week of a 10-week summer session is indicated on the student's permanent academic transcript with a grade of "W." A student may petition the dean's office of his or her academic division for an exception to this policy. Dropping an Interim session course does not result in a withdrawal from the University if the student is enrolled in a course or courses in any other summer session.

Withdrawal when called to active military duty. When a student is called to active military service during an academic term, he or she may choose one of the following three options:

- The student may request retroactive withdrawal to the beginning of the semester, with a full refund of tuition and fees.
- If at least 75 percent of the term has been completed, the student may request that the faculty member assign a grade for the course based on the work completed. The final decision about grading is left to the faculty member.
- If the faculty member assigns a grade of "I," the student must complete course requirements within two weeks after returning to campus or make alternative arrangements with the faculty member.

CORE CURRICULUM/GENERAL EDUCATION REQUIREMENTS

Applicable to students who begin their college careers fall 1998 and after, except for students enrolled in the College of Engineering (see "College of Engineering Core Curriculum/General Education Requirements" below).

To achieve a general education while pursuing a specific concentration in a chosen field of study, each undergraduate student will construct a curriculum that includes coursework in the following areas:

1. 6 semester hours of written composition (FC).
2. 6 semester hours in 300- and 400-level courses, preferably in the student's major, approved for the writing (W) designation. The (W) designation indicates that one of the conditions for a passing grade is that students write coherent, logical and carefully edited prose in a minimum of two papers, at least one of which will be graded and returned before mid-semester. All (W) designated courses are taught and graded by instructors who have at least the master's degree and preferably are limited to an enrollment of no more than 35 students. The (W) requirement must be satisfied with courses taken on this campus.
3. 6 semester hours of one of the following:
 - a. 6 semester hours in courses that are approved for the computer (C) designation. These courses either substantially integrate the application of appropriate software or require writing computer programs. Students must make extensive use of the computer as a condition for passing the course. Courses approved for the (C) designation assume that students have a working knowledge of the computer.

or

- b. 2 semesters in one foreign language (FL). A grade of "C" or better must be earned in the first-semester course of the two-semester sequence that fulfills the requirement before the student will be allowed to enroll in the second semester course. Students with two or more high-school units of a foreign language will be assigned to foreign language courses by the foreign language advisors on the basis of placement test scores. Students placed into FR 103, SP 103, or intermediate courses (FR 201, SP 201) will satisfy this requirement in one semester.

Note: These 6 hours are in addition to the requirements for humanities or mathematics.

4. 12 semester hours of courses approved for the humanities and fine arts (HU, L & FA) designations, to include 3 semester hours of courses approved for the fine arts (FA) designation and 3 semester

hours of courses approved for the literature (L) designation. Each student must complete a 6-semester-hour sequence in either literature or history.

5. 12 semester hours of courses approved for the history and social and behavioral sciences (HI & SB) designations, to include 3 semester hours of courses approved for the history (HI) designation. Each student must complete a 6-semester-hour sequence in either literature or history.
6. 11 semester hours of courses approved for the natural sciences and mathematics (N & MA) designations, to include 8 semester hours of courses approved for the natural sciences (N) designation and 3 semester hours of courses approved for the mathematics (MA) designation. This mathematics requirement must be satisfied with MATH 110 or higher.
7. Pre-professional, major and/or elective courses applicable to the student's declared major program of study. Students are to consult with their major departments/program areas for specific course designations that fulfill this requirement.

A course may be used to satisfy only one core requirement. For example, if a course carries a designation for both foreign language (FL) and humanities (HU), it may only be used to satisfy one of these core requirements. An additional course or courses must be completed to satisfy the remaining requirement.

A student may satisfy some general education course requirements by demonstration of competence on a proficiency examination such as the CLEP subject examination.

Review of general education (core curriculum) courses is an ongoing process. New courses may be approved and added to the list of those that meet core curriculum requirements. The Core designations for existing courses may be discontinued. A course carries general education designation if the course is approved at the time the course is taken. The student must consult the general education designations as found in the appropriate section of the schedule of classes booklet to ensure that the general education designation is in effect at the time the course is taken.

General education credit may be earned for courses taken at another institution, provided the courses transfer as the equivalents of courses that have been approved for general education credit at The University of Alabama. The (W) requirement must be satisfied in courses taken at The University of Alabama.

COLLEGE OF ENGINEERING CORE CURRICULUM/GENERAL EDUCATION REQUIREMENTS

To achieve a general education while pursuing a specific degree program in the College of Engineering, each undergraduate student enrolled in that college will construct a curriculum that includes coursework in the following areas:

1. 6 semester hours of written composition (FC).
2. 6 semester hours in 300- and 400-level courses, preferably in the student's major, approved for the writing (W) designation. The (W) designation indicates that one of the conditions for a passing grade is that students write coherent, logical and carefully edited prose in a minimum of two papers, at least one of which will be graded and returned before midsemester. All (W) designated courses are taught and graded by instructors who have at least the master's degree and preferably are limited to an enrollment of no more than 35 students. The (W) requirement must be satisfied with courses taken on this campus.
3. 9 semester hours of humanities (HU), literature (L) and fine arts (FA) area courses. A 6-hour discipline depth study is required and may be taken in either HU, L, and FA or HI and SB. There are no mandatory general education requirements for literature or fine arts, except as required for a specific engineering program.
4. 9 semester hours of courses in the areas of history (HI) and social and behavioral sciences (SB). A 6-hour discipline depth study is required and may be taken in either HU, L, and FA or HI and SB.
5. 12 semester hours of mathematics (MA) and natural sciences (N) area courses, to include 2 hours of laboratory. Mathematics must be at the MATH 125 level or higher.
6. Either 6 hours of foreign language (FL) or computer (C) are required in addition to the humanities requirement. FL courses can count as HU credit if 6 hours of C courses are earned.
7. Pre-professional, major and/or elective courses applicable to the student's declared major program of study. Students are to consult with

their major departments/program areas for specific course designations that fulfill this requirement.

A course may be used to satisfy only one core requirement. For example, if a course carries a designation for both foreign language (FL) and humanities (HU), it may only be used to satisfy one of these core requirements. An additional course or courses must be completed to satisfy the remaining requirement.

General education credit may be earned for courses taken at another institution, provided the courses transfer as the equivalents of courses that have been approved for general education credit at The University of Alabama. The (W) requirement must be satisfied in courses taken at The University of Alabama.

UA SYSTEM COOPERATIVE EXCHANGE PROGRAM

The University of Alabama System has a Cooperative Exchange Program that enables a student at any of the system's campuses—Birmingham, Huntsville, or Tuscaloosa—to enroll in one course at one of the other campuses. The following conditions govern this cooperative exchange program:

1. The student must be currently registered as a full-time undergraduate- or graduate-level degree-seeking student at the home campus.
2. The course desired must not be offered at the student's home campus.
3. Visiting students are limited to one undergraduate or graduate course per term at the host campus.
4. The student must have an overall grade point average of "C" as an undergraduate, or "B" as a graduate student.
5. The student's request must be approved by the registrar of the home campus and by the dean and/or advisor, if required.
6. Permission for the student to enroll in a course at the host campus is dependent upon availability of space for that course requested by the visiting student. (Availability is determined at the close of regular registration.)
7. The visiting student is not entitled to participate in the student activities of the host campus (i.e., sports functions, student concerts, etc.)
8. The visiting student follows all academic policies of the host campus.
9. It is the responsibility of the host campus to forward to the home campus the course description, semester hours of credit and the final grade awarded to the visiting student. In cases where the campus grading systems are not compatible, it is the responsibility of the host campus to award a grade that is compatible with the home campus grading system.
10. All expenses associated with registration, withdrawal and drop/add are paid by the student at the home campus. There should be no transfer of funds to the host campus.
11. To participate in this program, any student enrolled at the home campus with less than full-time hours requires approval by the vice president for academic affairs at the home campus and payment of minimum full-time tuition at the home campus.
12. Any exceptions to the above conditions governing this agreement must be approved by the vice president for academic affairs at the home campus.

Any student interested in participating in the Cooperative Exchange Program should contact the Office of the University Registrar for information and exchange program registration.

GRADUATION

Degrees are conferred at the close of each fall and spring semester and summer term. A graduation fee is charged to the student account early in the semester of graduation and is payable to the Office of Student Receivables prior to graduation.

Application for degree. To graduate a student must submit an Application for Degree. Each candidate for graduation is expected to file an application for degree one term prior to the term of graduation. An application form will be provided and accepted by the divisional or departmental office

in the student's academic division 12 weeks prior to the expected date of graduation. A student who fails to complete all requirements by the date on the application must file a new one.

All students (except doctoral candidates) who complete degree requirements will receive diplomas following the established graduation dates for those terms. Doctoral candidates will receive their diplomas at the commencement ceremonies held in August, December, and May. Undergraduate students completing degree requirements are considered degree candidates at the time of the institution's graduation ceremony.

Graduation requirements. To be eligible for a baccalaureate degree in any school or college of The University of Alabama, a student must earn in residence in that school or college at least one-fourth of the semester hours required for the degree. The schools and colleges may specify that advanced course work and additional course hours in the major and minor fields be taken in residence. Students should review the individual college "residency" requirements found in each college or school section of the undergraduate catalog. A student who is within one semester of completing all degree requirements and plans to complete some or all of those remaining requirements at an institution other than The University of Alabama must seek the approval of his or her Dean's Office prior to enrolling elsewhere in order to assure compliance with University and divisional residency requirements.*

*Students in the College of Education must seek advisement with their college advisor prior to enrolling at another institution of higher education during their last semester of enrollment to ensure compliance with state teacher certification eligibility factors.

In order to qualify for a degree from The University of Alabama, a student must earn a grade point average of at least "C" (2.00 on a 4.00 grading system) for all work attempted; transfer students must also earn grade point averages of at least 2.00 ("C") for work attempted at The University of Alabama. In addition, the student must earn an average of "C" or higher for all work attempted in the major; transfer students must also earn an average "C" or higher for all work attempted in the major at The University of Alabama. Some divisions of the University may have higher grade point average requirements for graduation; the divisional requirements for graduation are found in the sections of this catalog pertaining to each school and college.

If students do not complete degree requirements (as stated in the catalog for the academic year beginning each August or September) within seven years from the date they first entered the University or began collegiate work, they must change to the current catalog, under which they have seven years. If they so desire, they may choose a later catalog up to or including the one current at the time of their graduation.

Independent study and extension classes. In general, the maximum amount of baccalaureate degree credit that may be earned through independent study, extension classes, or a combination of the two is 25 percent of the total number of hours required for graduation, subject to the following provisions:

- The credit earned for independent study and extension classes must not conflict with general requirements for graduation.
- A student who plans to earn degree credit by independent study must have this plan approved in advance by the dean of the student's academic division.
- Any student in an undergraduate division of The University of Alabama who lacks one semester's work or less for completion of degree requirements, and whose attendance at the University is interrupted by orders to duty in any of the armed forces, shall be permitted to complete the requirements for graduation by independent study, provided that the credit earned for independent study does not exceed 25 percent of the work required for the degree. Such a student may also choose to complete some or all of the remaining one semester (or less) of work at another accredited institution. The work at another accredited institution may include independent study, night classes, extension classes and/or regular classes in residence. Any work taken under these conditions must be approved in advance by the dean of the school or college awarding the degree.
- Students in the School of Law are not covered by these provisions.

SECOND BACCALAUREATE DEGREE

To earn a second baccalaureate degree, the student must complete a minimum of 30 hours in residence at The University of Alabama over and above any hours earned for the first degree. Except in special circumstances approved by the dean, all of these additional hours must be completed in the division awarding the degree. A specific course required for both degrees will have to be taken only once. However, credit for such a course cannot be applied toward both the total hours required for the first degree and the additional hours required for the second degree.

A student may work toward two degrees simultaneously, but he or she must be enrolled in either one or the other of the two divisions awarding the degrees. The student is expected to obtain approval of the academic plan from these two divisions at a point when no fewer than 32 hours of coursework remain for the completion of one or both degrees.

TUITION AND OTHER EXPENSES

COSTS

Tuition. For a complete list of current tuition costs and an estimated student budget for the current year, go online to cost.ua.edu or contact The University of Alabama, Office of Student Receivables at (205) 348-5350, Box 870120, Tuscaloosa, AL 35487-0120. Their office is located at 105 Student Services Center.

College/course fees. College/course fees will vary depending on the student's actual course enrollment. College/course fees are listed on the Web with applicable courses in the Web Schedule of Classes for the applicable term after logging into your myBama account (mybama.ua.edu). To see the college fee rates per college, go online to cost.ua.edu/college_coursefees.html.

Housing. UA offers a wide range of on-campus living options that include dorm rooms and apartments, some including utilities. For more detailed information and current rates, go online to the Housing and Residential Communities Web site at reslife.ua.edu or contact The University of Alabama, Office of Housing and Residential Communities at (205) 348-6676 or toll free (888) 498-2262, Box 870399, Tuscaloosa, AL 35487-0399. Their office is located on the first floor of Mary Burke Hall East.

Meal Plans. Bama Dining offers several meal plan options. For details and rates, go to the Bama Dining Web site at bamadining.com or contact The University of Alabama, Bama Dining Services at (205) 348-6816, Box 870389, Tuscaloosa, AL 35487-0389. Their office is located at 133 Burke Hall East.

Dining Dollars. All undergraduates are billed for Dining Dollars along with other registration charges upon enrollment of 9 or more hours. For current rates, see cost.ua.edu. A Dining Dollars account is set up automatically on each student's Action Card. Dining Dollars can be used to purchase meals and snacks from all Bama Dining locations, selected campus vending machines and selected off-campus dining facilities. Complete information is available at the Action Card Web site at actcard.ua.edu or contact The University of Alabama, Action Card Office at (205) 348-2288 or toll free 1-800-474-ACCT (2288), Box 870355, Tuscaloosa, AL 35487-0355. Their office is located at 104 Student Services Center.

Parking. If you will have an automobile/motorcycle on campus, you will need to purchase a parking decal from Transportation Services. For information and rates, go to the Transportation Services Web site at bamaparking.ua.edu or contact The University of Alabama, Department of Transportation Services at (205) 348-5471, Box 870179, Tuscaloosa, AL 35487-0179. Parking Services is located at 103 Student Services Center.

Personal expenses. In addition to the costs listed on the estimated student budget at cost.ua.edu, personal expenses, which will vary from student to student, should be considered. Student Financial Aid makes financial aid awards based on an estimated on-campus budget (including personal expenses). For the current, estimated annual financial aid budget, go to the Financial Aid Web site at financialaid.ua.edu or contact The University of Alabama, Office of Student Financial Aid at (205) 348-6756, Box 870162, Tuscaloosa, AL 35487-0162. Their office is located at 106 Student Services Center.

Full- and Part-Time Tuition Rate Basis

An undergraduate full-time tuition flat rate is charged for enrollments of 12 to 16 hours for a fall or a spring semester. An overload fee is charged for each hour in excess of 16. For full-time and per-hour overload tuition rates for the current year, go to cost.ua.edu or contact the Office of Student Receivables at (205) 348-5350.

Part-time tuition rates are charged for hours of enrollment fewer than 12. For part-time tuition rates for the current year, go to cost.ua.edu.

Summer Term Tuition Rates

For summer tuition rates for the current year, go online to cost.ua.edu or contact the Office of Student Receivables at (205) 348-5350, Box 870120, Tuscaloosa, AL 35487-0120. Their office is located at 105 Student Services Center.

Residency

Questions regarding resident and nonresident status for tuition charge purposes should be directed to The University of Alabama, Office of the University Registrar, Box 870134, Tuscaloosa, AL 35487-0134; (205) 348-4886; registrar.ua.edu. Their office is located in 206 Student Services Center.

PAYMENT/CONFIRMATION POLICIES AND DEADLINES

The payment of tuition, college/course fees, dorm room, Dining Dollars, meal plan and parking decal charges is a part of the registration process known as "confirming your schedule." Payment or payment plan participation is required before each semester's registration is complete (confirmed). All prior semester charges must be paid before the student's enrollment will be confirmed for a subsequent semester.

Students will be notified via myBama e-mail when to access their student account at myBama to see each billing period's activity. No paper bills will be mailed. Payment/confirmation deadlines will be included in the e-mail. These notices will occur in late July for the fall semester, late November for the spring semester, and late April for the summer term.

For current billing dates and payment/confirmation dates, go online to studentreceivables.ua.edu and select "Registration & Monthly Bill Schedule."

Schedule Payment/Confirmation

The student may confirm his or her schedule on the Web when paying the specified payment in full, or the deferment plan amount after selecting "Confirm/Pay" on the Account Summary by Term. The Office of Student Receivables will confirm schedules for payments received through the mail, on the telephone, or made in person for the specified payment in full, or for the deferment plan amounts.

Payments may be made online after logging onto your myBama account, by credit card (Visa, MasterCard, Discover) and electronic check; through the mail by check or credit card mailed to The University of Alabama, Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; by telephone, (205) 348-4470, with a credit card; or in person at the Office of Student Receivables, 105 Student Services Center, by cash, check, or credit card (Visa, MasterCard, Discover).

Other forms of payment include: financial aid, scholarships disbursed or authorized (reflected on the student's account); sponsoring agency contracts; tuition assistance from various private, federal, and state funds; the Alabama P.A.C.T. program; tuition assistantships, University faculty/staff or departmental grants. If all or a portion of a student's registration expenses are to be paid by some type of financial aid or by a sponsoring agency and the student's account does not reflect this actual or projected transaction, it is the student's responsibility to provide written evidence of this support to the Office of Student Receivables.

Automatic Schedule Confirmation/Not Attending Cancellation

The student's schedule will automatically be confirmed after the confirmation/payment deadline if the student has sufficient payment from authorized or actual credits (e.g., financial aid, scholarships, third party contracts, etc.) reflected on the account to pay all registration costs. Thus, if the student will not be attending, it will be necessary for the student to indicate this on his or her myBama student account no later than the confirmation/cancellation deadline date. The myBama student account also has an option of indicating that the student will be attending, thus confirming the schedule at an earlier point. Once the schedule has been confirmed, the student will be liable for charges incurred and must officially withdraw through the Office of the University Registrar.

Allowing Others to Conduct Business for the Student – Parent/Guest Accounts

A student may allow a parent or other individual to view his or her financial student account and to conduct business (e.g., make a payment, elect deferment plan option, confirm the schedule) on the student's behalf. The student will assign a user ID and password, through his/her myBama account, to allow this access and will need to give this information to the individual(s) authorized by the student. It is still the student's responsibility to make sure that the schedule has been confirmed by the deadline, and that payments are made throughout the semester by payment deadlines.

BAMA Plan Installment Payment Option

The University of Alabama offers a way to pay basic annual (fall and spring semesters) University expenses (tuition, residence hall, Dining Dollars, campus meal plan charges, and parking decal costs) in 10 manageable monthly installments through the BAMA Plan—Bama's Affordable Monthly Alternative. There are no interest charges, only a \$55 annual participation fee for BAMA Plan convenience.

With the BAMA Plan, monthly payments can be deducted automatically from a checking account, eliminating the need to write and mail checks every few weeks and ensuring that payments are received on time. Direct billing for each BAMA Plan monthly payment is an option also. The first payment is due June 5, for those who apply on time for the BAMA Plan. Late application is possible through July 5 with a larger initial payment.

Summer term charges are not eligible for the BAMA Plan. For more information and an application on the BAMA Plan, go online to studentreceivables.ua.edu/bamaplan.html.

Deferment Plan Option

Students who meet the following eligibility requirements may defer up to one-half of the current semester charges for tuition, college/course fees, residence hall charges, Dining Dollars, meal plans, and parking decal. To be eligible, students must pay any prior semester balance and at least half of the registration charges at the time the deferment option is elected. Bama Plan participants are not eligible for the deferment plan.

All eligible students will automatically see the required payment amounts for the deferment plan election and the payment in full option when confirming their schedule. It is not necessary to sign up in advance for the deferment plan.

The required payment can be made by cash, check, money order, electronic web check, credit card (VISA, MasterCard, or Discover), financial aid applied to the student's account, faculty/staff or graduate-student grants, sponsoring agency contracts, or anticipated financial aid verified by the Office of Student Financial Aid. The deferred amount plus a deferment fee, currently \$30.00, is payable by the midpoint of the semester.

Other Financial Payment Policies

Continuing students who register for courses after the confirmation deadline will be charged a \$25.00 late registration fee.

All charges collected during the registration process are subject to correction for errors in calculation to ensure that correct amounts are collected as required by the board of trustees and current policies of the University.

Payment of registration charges with a check that is subsequently returned from the bank unpaid will result in an additional late registration fee and a returned check fee. Failure to clear a returned check taken in payment for registration charges will result in administrative withdrawal from classes. Once this action is taken, the student cannot be reinstated for the semester, but will owe the prorated portion of the charges for tuition and dorm room charges as specified in the "Withdrawal from the University" section.

Financial aid (other than work-study) is applied to a student's account in payment of institutional charges. No refund will be made on applied aid unless the student's account reflects a credit balance.

Miscellaneous Expenses and Payment

Miscellaneous expenses such as library fines, parking fines, and student health center charges are applied to your student account throughout the term. Students will need to access their student accounts at myBama to view additional charges incurred during the course of the semester and the due dates to prevent late payment charges from applying. E-mail reminders will be sent to the student's myBama account for each billing cycle.

For a list of other enrollment costs and current fee amounts, go online to cost.ua.edu.

Delinquent Accounts

In the event of a past due balance of any nature on the student's account, diplomas will not be issued; enrollment for subsequent terms will not be allowed; college credits will not be transferred; and transcripts of college credits will not be released until the balance is paid in full.

Failure to meet financial obligations of any kind to the University could subject the student to eviction from University housing; suspension of future services; referral of the student's delinquent account to a collection agency; reporting to credit bureaus; and the assessment of additional late payment charges, transcript hold fees, attorney's fees, and other costs and charges necessary for the collection of any amount not paid when due.

Offset of Funds

If a student's University account has an outstanding balance and the University has in its possession any funds payable to the student (from payments or credits applied to the student's account, payroll checks, and/or any other source, except as noted in "Use of Federal Financial Aid to Pay Prior Year Charges" section), the University reserves the right to withhold the funds necessary to clear the student's outstanding balance and to cover any collection costs incurred. Once those amounts are paid, any remaining funds are paid to the student.

For more information, contact The University of Alabama, Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; (205) 348-5350; e-mail receivables@fa.ua.edu. The Office of Student Receivables is located in 105 Student Services Center.

Use of Federal Financial Aid to Pay Prior Year Charges

Federal financial aid awarded for the current academic year cannot be used to pay for prior year outstanding balances (balances incurred during or prior to summer) greater than \$200.00. These prior balances must be paid by personal payment regardless of the amount of aid anticipated or disbursed for the first enrollment period of the academic year before that enrollment can be confirmed.

WITHDRAWAL FROM THE UNIVERSITY

It is the student's responsibility to withdraw officially from the University or from an individual course in accordance with University regulations. The "Academic Records and General Academic Policies" section of this catalog has the necessary instructions.

Tuition charges are reduced following withdrawal from all classes in an enrollment period at a rate based on the date the student initiates the withdrawal process in the Office of the University Registrar, as reflected in the "Proration of Tuition" section. Exceptions to the withdrawal initiated date policy include medical withdrawals from all classes and withdrawals from all classes due to involuntary military induction. Proration for medical withdrawal is based on the withdrawal effective date determined by the director of the University of Alabama Student Health Center. Withdrawal due to involuntary military induction (supported by a valid military induction notice) will result in full tuition removal. For dropping an individual course, proration is determined by the date the student initiates the action.

Enrollment periods are the fall semester, the spring semester, or the summer term. The summer term includes several different sessions—a three-week Interim session and two five-week summer sessions. If a student who has completed or will complete any course enrollment for the summer term wishes to drop classes for a specific session, this will be considered a course drop rather than a withdrawal since the student is still enrolled in the summer term.

Students who receive federal financial aid and subsequently withdraw from all classes before completing the enrollment period are subject to full or partial federal aid cancellation and repayment of funds received. See "Impact of Withdrawal on Students Receiving Federal Financial Aid."

Students suspended from school for disciplinary reasons have no right to refunds of any tuition paid or to the cancellation of amounts due.

Students are responsible for clearing any outstanding balances on their accounts before leaving campus. Refunds upon withdrawal from all courses will not be issued for three weeks, to allow time for all necessary adjustments to be made to the student's account.

Students are not entitled to refunds or cancellation of amounts due for residence hall contracts unless they withdraw from all classes. See "Proration of Housing Charges."

Refunds of housing deposits are issued upon authorization of Residential Life if the student has a clear account balance.

Refunds of ROTC deposits are issued upon authorization of the ROTC supply officer if the student has a clear account balance.

No refunds will be made to a student who has an outstanding balance on his or her account.

Proration of Tuition Charges

Withdrawal or dropping of courses during the semester may result in an increased hourly cost for the remaining hours. Tuition charges are based on the remaining hours plus a percent of the hours dropped, as determined by the date the withdrawal is initiated or the course(s) are dropped. For example, dropping from 14 hours to 6 hours during the 25% cost period, will adjust the tuition to the cost of taking 8 hours (i.e., 6 remaining hours plus 2 hours (8 dropped hours x 25% = 2 hours). For current proration dates, go online to studentreceivables.ua.edu/withdrawal.html.

Traditional Courses

These are term-based courses with a set start and end date.

Fall or spring semester	Cost incurred
Registration through eighth day of semester	Registration fee charge only
Ninth day through fourth week.....	Cost of the remaining enrolled hours plus 25 percent of the dropped hours
Fifth through seventh week	Cost of the remaining enrolled hours plus 50 percent of the dropped hours
Eighth week on.....	No adjustment in the original charge

Summer term	Cost incurred
Interim session	
Registration through second class day	No charge
Third class day on	No adjustment in the original charge

First or second summer session	Cost incurred
Registration through second class day	Registration fee charge only
Third class day through third week.....	Cost of the remaining enrolled hours plus 50 percent of the dropped hours
Fourth week on.....	No adjustment in the original charge

Full (dual) session courses*	Cost incurred
Registration through second class day	Registration fee charge only
Third class day through fourth week.....	Cost of the remaining enrolled hours plus 50 percent of the dropped hours
Fifth week on	No adjustment in the original charge

*Full (dual) session courses extend over first and second summer sessions.

Non-Traditional Courses/Open Learning Courses

These courses are not term-based and have variable starting and ending dates.

Print-based independent study and online courses	Cost incurred
Start date through 30 days	No charge
31 days through 60 days.....	50 percent charge
61 days on.....	No adjustment in the original charge

External degree courses	Cost incurred
Start date through 30 days	No charge
31 days on.....	No adjustment in the original charge

Proration of Housing Charges

The following proration of housing charges goes into effect in the event of withdrawal from all classes. Students must contact Housing and Residential Communities upon withdrawal.

For more detailed information, contact The University of Alabama, Office of Housing and Residential Communities at (205) 348-6676 or toll free (888) 498-2262, Box 870399, Tuscaloosa, AL 35487-0399; located on the first floor, Mary Burke Hall East; Web site: reslife.ua.edu. For current proration dates, go online to studentreceivables.ua.edu/withdrawal.html.

Fall or spring semester	Cost incurred
Registration through eighth day of semester.....	No charge
Ninth day of semester through fourth week.....	25 percent charge
Fifth through seventh week	50 percent charge
Eighth week on.....	100 percent charge

Summer term	Cost incurred
Interim session	
Registration through second class day.....	No charge
Third class day on	100 percent charge

First or second summer session	Cost incurred
Registration through second class day.....	No charge
Third class day through third week.....	50 percent charge
Fourth week on.....	100 percent charge

Full (dual) session courses*	Cost incurred
Registration through second class day.....	No charge
Third class day through fourth week.....	50 percent charge
Fifth week on	100 percent charge

*Full (dual) session courses extend over first and second summer sessions.

Impact of Withdrawal on Students Receiving Federal Financial Aid

In addition to the financial impact on institutional costs and charges noted earlier in this section related to withdrawal from all classes in an enrollment period, student recipients of federal Title IV aid (Federal Pell Grants, Federal Perkins Loans, Federal Direct Loans, Federal Supplemental Educational Opportunity Grants, National Smart Grants, Federal Teach Grants, Alabama Academic Competitiveness Grant and Alabama State Grants) are subject to additional rules and regulations, which may result in cancellation or reduction of federal Title IV aid upon withdrawal from classes in an enrollment period.

Although federal aid is normally disbursed at the beginning of an enrollment period, this aid is "earned" as the student attends classes throughout the period. The difference in awarded and "earned" aid at the point of withdrawal may result in the need to return "unearned" aid.

Reductions in aid associated with the institutional cost portion (tuition, dorm charges, college/course fees) resulting from withdrawal from all classes for the enrollment period will be returned to each source of aid/scholarship received by the student, up to the total amount received from each source, in the following order:

1. Federal Direct Loan(s), Unsubsidized
2. Federal Direct Loan(s), Subsidized
3. Federal Perkins Loan
4. Federal Direct Loan(s), PLUS
5. Federal Pell Grant
6. Federal SEOG Grant
7. Other aid or scholarships

Any remaining credit, after these cancellations have occurred, will be returned to the student (net of any charges remaining on the student account).

In some circumstances, withdrawal may result in the student assuming the liability for the payment of any remaining institutional charges for the enrollment period in addition to any miscellaneous charges outstanding on the student account.

A federal aid recipient who withdraws from an enrollment period is subject to possible repayment of federal aid disbursed to the student (after payment of institutional charges) for living expenses and other educational needs. If the aid disbursed is greater than the "earned" portion of the aid at the point of withdrawal, it may be necessary for the student to repay all or a portion of the federal aid received.

For further information, contact the Office of Student Receivables, 105 Student Services Center, (205) 348-5350; e-mail receivables@fa.ua.edu or go online to studentreceivables.ua.edu/withdrawal.html.

Impact of Withdrawal on Institutional and Non-Institutional (Non-Federal Only) Loans and Scholarships If No Federal Aid Is Involved

If a student withdraws during an enrollment period for which a University loan or scholarship, or a private loan or scholarship, has been received and utilized to pay all or a portion of institutional charges (tuition, course fees, and dorm charges), and no federal aid is involved, any excess funds (resulting from the reduction of institutional charges stemming from the withdrawal action) will be returned to each non-federal loan or scholarship program according to the percentage of the total institutional charges originally paid by each scholarship or loan program. Institutional loans or scholarships are assumed to be the first payment source in this calculation method.

For further information, contact The University of Alabama, Office of Student Receivables, Box 870120, Tuscaloosa, AL 35487-0120; (205) 348-5350; e-mail receivables@fa.ua.edu. The Office of Student Receivables is located in 105 Student Services Center.

Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors or error occasioned by honest mistake. All information contained in this catalog is subject to change by the appropriate officials of The University of Alabama without prior notice.

STUDENT FINANCIAL AID

Financial aid is assistance made available to students to help pay for their college education. Intended to allow students a choice of colleges and to enable them to complete their programs of study, financial aid may consist of scholarships, grants, loans, and/or jobs. The federal and state governments, educational institutions, businesses, civic clubs, and individuals sponsor financial aid programs of various kinds.

Student Financial Aid at The University of Alabama provides counseling and information to students and parents at all income levels. The office is located in 106 Student Services Center. For more information, call (205) 348-6756 or visit our Web site at financialaid.ua.edu.

TYPES OF FINANCIAL AID

Scholarships

University of Alabama scholarships can be reviewed online at scholarships.ua.edu or requested by contacting The University of Alabama, Scholarships, Box 870132, Tuscaloosa, AL 35487-0132; (205) 348-5666 or 1-800-933-BAMA; e-mail scholarships@ua.edu.

Grants

A grant is "gift aid" that does not have to be repaid. Only undergraduate students pursuing their first bachelor's degrees are eligible for grants. Five grants are available at The University of Alabama:

Federal Pell Grant. The Federal Pell Grant program is based on financial need. The amount of a Pell Grant varies depending on eligibility.

Federal Supplemental Educational Opportunity Grant (SEOG). The Supplemental Educational Opportunity Grant is a federal program based on exceptional financial need and availability of funds. The amount of an SEOG award varies. To be considered, a student must be eligible for a Federal Pell Grant.

Alabama Student Assistance Program. The Alabama Student Assistance Program is a grant program based on financial need and availability of funds. Only Alabama residents are eligible to receive these grants, which vary in amount.

Alabama Competitiveness Grant. The Academic Competitiveness Grant is based on financial need. It is awarded to first- and second-year students pursuing their first undergraduate degrees. Students must be eligible for a Pell Grant and apply using the Free Application for Federal Student Aid.

National SMART Grant. The National SMART Grant is based on financial need. It is awarded to third- and fourth-year students pursuing their first undergraduate degrees in specific fields of study that are determined to be high-need by the Department of Education. Students must be eligible for Pell Grant and apply using the Free Application for Federal Student Aid.

Student Loans

Student loan programs provide long-term, low-interest loans for students. Student loans must be repaid with interest.

FEDERAL PERKINS LOAN

The Federal Perkins Loan is based on exceptional financial need, eligibility for the Federal Pell Grant and availability of funds. It has an annual interest rate of 5 percent. Repayment does not begin until nine months after graduation or when a student is no longer enrolled at least half-time. The maximum amount that can be borrowed by a student for each academic year is determined annually and is based on the availability of funds.

WILLIAM D. FORD FEDERAL DIRECT LOAN PROGRAM (DIRECT LOANS)

The University of Alabama participates in the Direct Student Loan program. This means the University receives loan funds directly from the U.S. Department of Education and disburses them to eligible students. Loans disbursed through this program no longer involve private lending institutions such as banks or credit unions. The types of loans disbursed through the program are as follows:

Federal Direct Subsidized Stafford Loan. The Federal Direct Subsidized Stafford Loan program is based on financial need; recipients must be enrolled at least half-time.

Federal Direct Subsidized Stafford Loans are awarded by the University. Repayment of Federal Direct Subsidized Stafford Loans does not begin until six months after graduation or when a student is no longer enrolled at least half-time.

Maximum annual Federal Direct Stafford Subsidized Loan awards (based on eligibility) are as follows:

Freshman	\$3,500
Sophomore	\$4,500
Junior/Senior	\$5,500

Federal Direct Unsubsidized Stafford Loan. The Federal Direct Unsubsidized Stafford Loan program is not based on financial need. Unlike the subsidized loan, interest on an unsubsidized loan begins accruing as soon as the loan funds are disbursed. Interest can be added to the principal or paid monthly or quarterly by the borrower. To be considered for the unsubsidized loan, students must apply for federal financial aid.

Maximum annual Federal Direct Unsubsidized Stafford Loan awards are as follows and include any amount received in a subsidized Federal Direct Stafford Loan:

Dependent Students	Independent Students
Freshman \$5,500	Freshman \$9,500
Sophomore \$6,500	Sophomore \$10,500
Junior/Senior \$7,500	Junior/Senior \$12,500

A total maximum (including both subsidized and unsubsidized Federal Direct Stafford Loans) of \$31,000 for dependent students or \$57,500 for independent students may be borrowed for study toward the undergraduate degree.

Federal Direct Parent Loan for Undergraduate Students (PLUS).

The PLUS program is not based on financial need. The PLUS program is available to parents of dependent students. The interest rate is variable, adjusted annually, not to exceed 9 percent. A parent can borrow the difference between the cost of attendance (defined by Student Financial Aid) and the amount of the student's estimated resources.

Repayment of principal and interest of PLUS loans begins within 60 days after the loan is disbursed or parent may request a deferment. PLUS loans are disbursed in two installments.

Federal Work-Study Program

The Federal Work-Study Program is a federally funded work program based on financial need and availability of funds. One component of the program is student participation in community service designed to improve the quality of life of a community's residents or to solve particular problems those residents experience.

Work-study students may work on or off campus for an average of 12 to 15 hours of service weekly. They are paid every two weeks for the hours worked.

A listing of available work-study positions (including community service positions) is made available to students who complete the University's work-study orientation session.

Additional Assistance

Alabama National Guard Educational Assistance Program (ANGEAP). ANGEAP is a student assistance program established by the legislature of the state of Alabama to provide financial assistance to Alabama National Guard members who are residents of the state of Alabama and are enrolled in degree programs at accredited postsecondary institutions of higher learning located within the state of Alabama. For an application, contact the Alabama National Guard, Capt. Melissa McQueen, AL-ESO, P.O. Box 3711, Montgomery, AL 36109-0711; (334) 213-7580.

Cooperative education. Cooperative education involves spending part of the year studying and part of the year working full-time. Students must have earned 30 credit hours before a cooperative education assignment will be made. For more information, go to coop.eng.ua.edu.

Job location and development. Student Employment Services (located in 106 Student Services Center) maintains a listing of part-time

jobs on and off campus. Students do not have to be eligible for financial aid to use this service.

Police Officers and Firefighters Survivors Educational Assistance

Program. This program provides assistance for tuition, fees, books, and supplies for survivors of a parent or spouse killed in the line of duty. For an application or additional information, contact the Alabama Commission on Higher Education, P.O. Box 302000, Montgomery, AL 36130-2000; (334) 242-2273.

Private sources. Scholarships, grants, and other educational funds are available through outside organizations such as churches, employers, your state department of education, and the state commission on higher education.

Veterans Services. Students who may be eligible for veterans' benefits include VEAP veterans, reservists and veterans on the New GI Bill, disabled veterans, dependents of persons who have total and permanent service-connected disabilities, and dependents of persons whose deaths were service-connected. Students must register with Veterans Services each semester to begin or to continue to receive benefits. Information about services, application procedures, and compliance with VA requirements is available from The University of Alabama, Veterans Services, Box 870162, Tuscaloosa, AL 35487-0162; (205) 348-6770. You may visit gibill.va.gov or call the VA at 1-888-442-4551.

APPLYING FOR FINANCIAL AID

To determine the amount of financial aid for which a student is eligible, The University of Alabama uses the Free Application for Federal Student Aid (FAFSA). Students complete the FAFSA online at fafsa.ed.gov. Information from the FAFSA will be forwarded to the University if the student designates UA as a recipient, using UA's federal school code 001051. Financial aid is not automatically renewed from year to year. Students must apply each year for all types of aid. The U.S. Department of Education sends renewal information to prior-year applicants in November. Students are encouraged to apply as soon as possible after January 1. Processing can take two to three weeks, so it is important to begin early. Although The University of Alabama sets no deadline to apply for financial aid, there is a March 1 priority date to receive maximum consideration for all types of aid.

SATISFACTORY ACADEMIC PROGRESS REQUIREMENT FOR FEDERAL FINANCIAL AID RECIPIENTS

All students at The University of Alabama who receive federal financial aid must make satisfactory progress toward completion of their degrees within a reasonable period of time. The University's standing committee on financial aid has approved the following standards defining satisfactory progress, in accordance with regulations issued by the U.S. Department of Education:

UNDERGRADUATE STUDENTS

An undergraduate student is considered to be making satisfactory progress if he or she

- is admitted and enrolled as a degree-seeking student
- meets the minimum scholastic measures required for financial aid recipients
- maintains measurable progress toward the completion of the degree
- completes degree requirements within a reasonable length of time

Minimum scholastic requirements. In order to maintain the minimum scholastic requirements, the student must maintain the minimum GPA indicated below according to the number of credit hours earned (including transfer credit).

Credit hours earned	Required UA GPA
0–30	1.5
31–60	1.7
61–90	1.9
91 or more	2.0

Measurable progress requirement. In order to maintain measurable progress toward the completion of their degrees, students must successfully complete 67 percent of all University of Alabama credit hours attempted. (Hours attempted include repeated courses, dropped courses, withdrawals,

and incomplete courses.) This measure becomes effective when a student has attempted 24 University of Alabama credit hours.

- **Example A:** If you attempted 32 credit hours and successfully completed 26 of those hours, dropped 3 hours, and failed 3 hours, your completion rate would be as follows:

$$26 \text{ completed hours} \div 32 \text{ attempted hours} = 81.2\% \text{ completion rate}$$

You meet the measurable progress component of this requirement.

- **Example B:** If you attempted 32 credit hours and successfully completed only 20 of those hours, and either dropped, failed, repeated, received incompletes for, or withdrew from the other 12, your completion rate would be as follows:

$$20 \text{ completed hours} \div 32 \text{ attempted hours} = 62.5\% \text{ completion rate}$$

You do not meet the measurable progress component of this requirement and, therefore, are not eligible for financial aid.

Reasonable length of time requirement. At The University of Alabama, a reasonable length of time for the completion of a degree program is generally defined as no more than 150 percent of the normal time required to complete a degree program. Coursework that transfers into a degree program will adjust the time frame accordingly.

- **Example A:** If your degree requires that you complete 120 credit hours, your reasonable length of time will be as follows:

$$120 \text{ credit hours} \times 150\% = 180$$

You will be within your reasonable length of time during your first 180 hours of attempted coursework.

- **Example B:** If your degree requires that you complete 120 credit hours and you have transferred 54 credit hours, your reasonable length of time will be as follows:

$$120 \text{ credit hours} - 54 \text{ transfer hours} = 66 \times 150\% = 99$$

You will be within your reasonable length of time during your first 99 hours of coursework attempted at The University of Alabama.

A student who is working toward a degree level he or she has already completed or exceeded (i.e., second bachelor's degree) will have his or her reasonable length of time established at no more than 67 percent of the normal length of the program minus any coursework that transfers into the program.

- **Second bachelor's degree example:** If your new bachelor's degree requires 120 credit hours and your dean counts 98 hours from your first degree toward your second degree, your reasonable length of time will be as follows:

$$120 \text{ credit hours} - 98 \text{ previous hours} = 22$$

You will be within your reasonable length of time during your first 22 hours of coursework attempted on your second degree.

REINSTATEMENT OF FINANCIAL AID ACADEMIC ELIGIBILITY AND APPEALS OF DECISIONS

A student who becomes ineligible for financial aid because he or she does not maintain satisfactory progress toward completion of his or her degree may reapply for financial aid when he or she has cleared the deficiency and is again progressing satisfactorily according to the requirements outlined above. When mitigating circumstances are involved, a student may appeal a decision that he or she has not complied with the academic requirements for financial aid.

In order to appeal, the student must do the following:

- Make an appointment with an academic advisor to establish a personal academic plan for success

- Visit the Center for Teaching and Learning to document resources to be used in the academic plan for success if you did not meet the minimum scholastic requirement.
- Write a letter of appeal to Student Financial Aid requesting reinstatement—explaining the reason(s) why satisfactory progress is not being made and providing a copy of the academic plan for success and any documentation that supports the rationale for the appeal, including strategies discussed with the CTL—if applicable.
- Submit the letter of appeal to Student Financial Aid with the supporting documentation mentioned above.

The appeal will be reviewed by an appeal board and a decision made within two weeks. Appeals may be accepted without provision, or they may be accepted provisionally, entailing a probationary period in which the student must earn a given number of credit hours. Appeals may also be denied. It is the student's responsibility to initiate any appeal for financial aid eligibility. Appeals for academic reinstatement granted by the University registrar or the Office of Undergraduate Admissions do not constitute reinstatement of financial aid eligibility.

WITHDRAWAL FROM THE UNIVERSITY

For information about withdrawing from courses or from the University, and the impact of withdrawal on federal financial aid, see the sections "Student Records and General Academic Policies" and "Tuition and Other Expenses" of this catalog.

STUDENT RIGHTS AND RESPONSIBILITIES

As a student consumer, you have the right to

- be informed of correct procedures for applying for aid, cost of attendance, aid available, how financial need is determined, criteria for awarding aid, how academic progress is determined, and what you must do to continue receiving aid
- be informed of the type/amount of your assistance, how much of your need has been met, and how/when you will be paid
- appeal financial aid office decisions about your application
- view the contents of your financial aid file in accordance with the Family Educational Rights and Privacy Act
- know the conditions of any loan you accept
- know the job description and pay rate for any job you accept

Your responsibilities are to

- complete applications correctly and submit them on time
- read all materials sent to you from Student Financial Aid and other financial aid agencies
- read, understand, and keep copies of forms you sign
- know and comply with the rules governing aid you receive
- provide additional documentation, verification, corrections, and/or new information requested by Student Financial Aid
- comply with the provisions of any promissory note and all other agreements you sign
- register for the required number of hours by the time of your aid disbursement
- maintain satisfactory academic progress
- notify Student Financial Aid of all resources received from outside our office and any aid not listed in your award letter; outside funds may require a reduction or repayment of aid equaling the amount that exceeds your financial aid eligibility
- keep your local and permanent addresses current in the records office
- use aid only for expenses related to attending the University

SUPPORT PROGRAMS AND SERVICES FOR STUDENTS

At The University of Alabama, we're committed to helping our students make the most of their college experiences—and we provide a comprehensive range of support programs and services to give them the resources they need. These include high-quality academic, personal, and professional support services; diverse recreational and extracurricular activities; convenient debit and ID card services; and top-notch housing and dining facilities. These programs are administered through several different areas of the University, such as Student Affairs, Academic Affairs, or Auxiliary and Support Services. For more information about any of the services described in this section, refer to the contact address and phone number provided for each.

ACTION CARD

The Action Card serves multiple purposes at The University of Alabama. Your Action Card is the official University photo identification card. You will use your Action Card for access to: NCAA Athletic Events (for football games you will also need a ticket), University Libraries (in order to check out books), University Recreation Facilities (Student Recreation Center and Pool, Aquatic Center), Computer Labs, Student Health Center, Residence Hall Lobby Areas, Campus Entertainment Events and My Football Tickets.

The Action Card accounts are similar to a checking account: With a prepaid deposit of funds, you can then use your card to make purchases at participating locations. There are three types of Action Card accounts: Bama Cash, Dining Dollars and Meal Plans.

Bama Cash is an optional account, which, once established with a deposit of funds, allows students to pay for purchases at a wide variety of on and off-campus locations. For details, visit our Web site: actcard.ua.edu.

The Action Card online services (actcard.ua.edu) allow cardholders access to their debit account information for both Bama Cash and Dining Dollars to check balances and review transaction history. Through Action Card online, cardholders can also deposit funds directly to Bama Cash via Visa, MasterCard and Discover cards.

The Action Card Office is located in 104 Student Services Center. Office hours are Monday through Friday, 8 a.m.–5 p.m. Students can reach the office by phone at (205) 348-2288.

Follow us on Twitter and Facebook:

Twitter – <http://twitter.com/BamaInfo>

Facebook – The University of Alabama Action Card Office

CENTER FOR TEACHING AND LEARNING

The Center for Teaching and Learning (CTL) provides academic support designed to improve students' academic performance. Visit our Web site at ctl.ua.edu for more information. Units administered by the CTL include the following:

ACADEMIC SUPPORT SERVICES

Learning Enhancement. Learning Services are provided to help students (a) succeed in University of Alabama courses, (b) improve study techniques, (c) improve reading proficiencies, and (d) prepare for professional school and graduate school entrance examinations. The CTL maintains a dual-service orientation to advance learning strategies for academically gifted students and to enhance learning strategies for students who need to strengthen their academic performance.

In the **Independent Study Lab** (124 Osband Hall), students can use computer programs, videotapes, multimedia programs, and other self-paced learning materials. The lab has resources for students who want to improve their study skills or their performance in language, math, biology, chemistry, physics, statistics, and engineering. Videotaped lectures from many math, chemistry, engineering, and statistics courses are available in the lab. The lab also provides resources for entrance exam preparation.

The **Tutorial Assistance Program** provides individualized help with specific classes. There is no charge for this service, and appointments may be made by visiting 109 Osband Hall or calling (205) 348-8854. Help with

University of Alabama math courses is available through weekly **Math Help Sessions** and through **Math Test Reviews** that precede class test dates. Additional help with specific courses is provided via regularly scheduled Supplemental Instruction Sessions that meet three times per week.

The CTL offers two **Study Skills Courses**. In NEW 222 students learn efficient ways to pursue academic activities. BEP 110 is a 3-hour course designed to improve learning skills and strategies. In addition, non-credit Study Skills Workshops are offered frequently, covering topics like time management, speed reading, reading comprehension, vocabulary enhancement, note taking, memory methods, test preparation, test taking, and motivation.

CTL also offers a credit-earning course, **BCE 101 Freshman Compass**. This course focuses on student success by helping first-year students (a) acquire an orientation to the functions and resources of the University; (b) adjust to the University environment; (c) establish relationships through interaction with faculty, advisors, and other students; and (d) develop essential academic skills.

Students who plan to take entrance examinations for graduate or professional school can review relevant materials in the Independent Study Lab. Additionally, through the Kaplan on Campus Program, UA students can enroll in Kaplan review courses at a reduced cost.

Students may obtain program information, use resources, or talk with a staff member about services by visiting 101 Osband Hall or by calling (205) 348-5175. The center is open Monday through Thursday from 8 a.m.-10 p.m. and Friday from 8 a.m.-4:45 p.m.

STUDENT SUPPORT SERVICES

Purpose of the program. Student Support Services (SSS) is a comprehensive, federally funded TRIO program that offers academic assistance to qualified undergraduate students at The University of Alabama.

The goal of SSS is to increase retention and graduation rates of eligible students through academic assistance, counseling, advising, and other forms of individualized support services. SSS participants are helped in determining their specific strengths and weaknesses so that the program can offer the most appropriate assistance for each student.

Key program components. Student Support Services participants will

- Receive individualized support services, including academic, career, financial, and personal counseling and advising
- Receive tutoring in requested subjects when available
- Have the option of participating (as a protégé or mentor) in a Student Support Services Peer Mentoring Program
- Prepare for successful entry into the job market with career planning
- Receive a Kaplan Graduate School Entrance Exam Review at no charge
- Receive guidance in developing effective graduate school admissions plans
- Attend seminars in a variety of areas to strengthen personal, professional, and academic competencies
- Participate in selected cultural events
- Receive tuition waiver on college credit courses offered through SSS, including the following:
 - College Success (GS 111)
 - College Writing (GS 111)
 - Professional Development Seminar (GS 111)
 - MATH 100 (section 099 only)

Criteria for eligibility. Any undergraduate student who is a citizen or permanent resident of the United States, has been accepted for enrollment at The University of Alabama, has a program-approved academic need* for assistance, and meets one or more of the following U.S. Department of Education criteria is encouraged to submit an application:

- a) Is a first-generation college student (if you lived with both parents, both parents/guardians did not graduate from a four-year college or

university; if you lived with only one parent, that parent did not graduate from a four-year college or university)

b) Is eligible for financial aid at a level established by the U.S. Department of Education

c) Is a student with a documented disability (physical or learning)

*Academic need, as defined for purposes of Student Support Services, includes any one or more of the following:

- High-school GPA of 2.5 or below
- ACT score of 20 or below (composite score or any one subtest)
- SAT verbal score of 460 or below (total score)
- SAT math subscore of 460 or below
- Placement in MATH 005, MATH 100, or EN 099
- College cumulative GPA of 2.0 to 2.25
- Semester GPA of 2.0 or below
- Failing grades in one or more courses
- Returning adult student (five or more years since last attended school)
- In danger of losing scholarship award
- Enrollment in highly demanding and stressful courses of study, including engineering, nursing, math-based business, and premed

Becoming a participant. A student may apply to become a participant in the SSS program at any point in his or her undergraduate career (freshman to senior) and at any point in the semester. Applications will be reviewed at the beginning of each semester. If a student is deemed eligible to receive services and space is available in the program, he or she will be admitted. For an application or for more information, contact The University of Alabama, Student Support Services, 225 Osband Hall, Box 870304, Tuscaloosa, AL 35487-0304; (205) 348-7087; fax (205) 348-5585; www.ctl.ua.edu/ssss.

DISABILITY SERVICES

The Office of Disability Services (ODS) is the central contact point for University students with disabilities. The goal of ODS is to ensure that University programs and services are accessible to qualified students with disabilities. ODS works with faculty and other members of the University community to provide individualized academic accommodations and support services while promoting student responsibility and self-advocacy. It is the student's responsibility to make known a need for academic accommodations and services by providing appropriate documentation of the disability to ODS, formally requesting accommodations through meeting with an ODS case manager, and by presenting an official ODS accommodation letter to each of his/her professors.

For more information about services for students with disabilities, consult the Web site, www.ods.ua.edu, or call (205) 348-4285 (voice), or (205) 348-3081 (TTY). Written correspondence should be addressed to The Office of Disability Services, Box 870185, Tuscaloosa, AL 35487-0185. ODS is located in Martha Parham East, Room 133-B.

INTERNATIONAL SERVICES

International Services, located within the Capstone International Center of The University of Alabama, provides specialized services for international students, professors, research scholars, visitors, and their families. International Services conducts intensive orientation programs and provides vital information regarding U.S. Immigration compliance as well as multicultural guidance and counseling. These are ongoing services that monitor individual progress according to Department of Homeland Security regulations.

Great emphasis is placed on international student programming. International Services coordinates a wide variety of student activities such as a weekly international coffee hour, an annual international education week, and an annual "Welcome" reception for international students at the President's Mansion.

Professional staff members advise and assist the International Student Association, which represents all international students and the many nationality organizations on campus. Professional staff work closely with community groups such as the Rotary Club of Tuscaloosa, which sponsors the Rotary International Student Center, an on-campus residence for male and female students and a gathering place that fosters international friendships. Tuscaloosa's International Friends (TIF) sponsors a friendship family program for international students.

International Services may be contacted by telephone at (205) 348-5402, by fax at (205) 348-5406, and by mail at The University of Alabama, International Services, Box 870254, Tuscaloosa, AL 35487-0254, USA. Offices are located in 105 B.B. Comer Hall.

STUDENT AFFAIRS

The Division of Student Affairs maximizes each UA student's learning experience. Each unit within the division fosters an environment that supports learning, healthy lifestyles, leadership and career development, personal growth, and inclusiveness. In keeping with the University's mission and heritage, the division works to provide students with the experiences and skills that lead to academic success and productive and fulfilled lives. To this end, the Division of Student Affairs complements and supplements the academic enterprise, maintaining both a climate on campus and range of programs that enhance student learning and personal growth.

Career Center

The Career Center is a vital part of each student's college education. Students do not necessarily need to select a major when they are freshmen, but they need to begin to explore academic majors and the many career options that can be available for all majors. Even students considering attending graduate or professional education when they complete college should discuss career and graduate school options with a career consultant. All students should visit the Career Center or one of the Satellite Offices during their first semester at the University. The Main Office is located at 330 Ferguson Center. A Satellite Office is in 250 Bidgood Hall. The Career Center offers a comprehensive range of career development services and employment opportunities. All Career Center offices are open Monday through Friday from 8 a.m. to 5 p.m., and there is 24/7 online access to job postings, resume referrals and on-campus recruiting through Crimson Careers. To schedule an appointment or for more information, call (205) 348-5848. Specific information on services is available at uacc.ua.edu.

Counseling Center

The Counseling Center helps students achieve academic success and personal growth through quality counseling, psychological and consultative services. By providing emotional health care services of a short-term nature, the Counseling Center serves as a screening, intake, and referral resource that assists all students in identifying their needs and locating an appropriate resource if their needs are outside the scope of services offered. Among the services provided are individual, couple, and group counseling and substance abuse counseling, crisis intervention, and medication referral services. For general information and assistance, please call (205) 348-3863.

Dean of Students

The Office of the Dean of Students is a natural starting place for students who have questions or concerns about their experience at the University. The office works collaboratively with other offices in Student Affairs and Academic Affairs to engage and support students during their experience at the Capstone. The mission of the Dean of Students Office is to maximize each UA student's learning experience by fostering personal development through opportunities for participation, involvement and engagement. The division of Student Affairs provides educational experiences outside the classroom that serve to grow students, personally, socially and spiritually, ensuring that they are also responsible citizens of the world. The Dean of Students ensures that there is immediate contact with students and their families. The areas in the Dean of Students office include: the Women's Resource Center, Greek Affairs, Student Judicial Affairs, Campus Ministers, Graduate Student Services, Parent Programs and the On-Call Dean program. For more information about programs and services, call (205) 348-3326 or visit our Web site at dos.ua.edu.

University Union

The University Union supports, supplements and complements the overall academic, research, and service mission of The University of Alabama by offering a wide variety of high-quality services, collaborative programming, and leisure time activities.

The University Union's Ferguson Center serves as the center of the campus community and is open more than 340 days per year, seven days per week, and at least 15 hours per day to serve the needs of the campus community. The Ferguson Center is the site of many University offices, including the Career Center and the Community Service Center, as well as other offices dedicated to serving students.

Conference and meeting room reservations for the Ferguson Center, Student Services Center, and Ferguson Plaza are also made through

the Ferguson Center Reservations & Event Planning Office. For more information and to access the Online Room Reservation Form, please visit ferguson.ua.edu or call (205) 348-2827.

Housing and Residential Communities

Housing and Residential Communities provides safe, secure housing for undergraduate and graduate students that supports their academic success. Campus housing provides leadership opportunities and avenues for campus involvement and engagement.

For more information about campus housing, call (205) 348-6676 or visit our Web site at housing.ua.edu.

New Student Programs

The Office of New Student Programs assists students in maximizing their first year at the University by introducing them to University resources, policies, and procedures and encouraging connections to the campus community. Tide Early Alerts, the Crimson Calling Center and Freshman Learning Communities are initiatives designed to foster student engagement with faculty, staff and one another during their crucial first year.

Contact the Office of New Student Programs at (205) 348-3326 or at newstudents.ua.edu.

Parent Programs

The Office of Parent Programs supports the successful academic and social transition of new students into the University of Alabama community, as well as promotes continuous relationships among our students' parents, families, and the University. Parents of students can also find the answers to their questions and learn how to best support their student's education and outside-of-the-classroom experiences. For more information about parent programs, including Family Weekend in the fall, call (800) 392-2777 or visit our Web site at parents.ua.edu.

Community Service Center

The Community Service Center educates students for service advocacy and leadership, civic responsibility, and lifelong volunteerism by increasing awareness of community needs, resources and opportunities for social problem solving. The Community Service Center connects students to volunteer opportunities on campus, in the Tuscaloosa community, and across the country. For more information, visit volunteer.ua.edu.

Student Involvement and Leadership

The mission of the Office of Student Involvement and Leadership is to provide opportunities for co-curricular experience as well as service to the University and the community. This office helps each student customize and enhance his/her educational experience to fit that student's goals and interests. To find out more about the many ways to get involved on campus, visit leadership.ua.edu or call (205) 348-6114.

Student Media

The Office of Student Media provides UA students with experience—direct, hands-on, real-life experience—that prepares them for any career and sets them on a path to success after graduation. Student Media offers out-of-classroom opportunities through The Crimson White, a 15,000-circulation daily newspaper; Corolla, a 115-year-old yearbook; WVUA, a non-commercial radio station at 90.7 FM; Marr's Field Journal, an undergraduate literary/art journal; Black Warrior Review, a graduate level national literary journal; Southern Historian, a graduate level research journal; and a Digital Media unit that develops content and services for the Web. To get more information, go to osm.ua.edu or call (205) 348-7257.

University Recreation

University Recreation conducts sports and fitness programs for the University community that strengthen well-being, learning and personal growth. Programmatic areas include Intramural Sports, Sport Clubs, Outdoor Recreation, Personal Training, Fitness Testing and Consultations, Group Exercise classes, non-credit instructional classes, aquatic services, and informal (open) recreation. Facilities available include the ultramodern, award-winning Student Recreation Center, University Aquatic Center, Outdoor Fields Complex, Outdoor Pool Complex and Tennis Courts.

For more information on these facilities and programs, call (205) 348-3994 or visit our Web site at urec.sa.ua.edu.

Women's Resource Center

The Women's Resource Center empowers women on campus through programs on leadership, women's issues, peer education, volunteer opportunities, and support. The center provides students with counseling and advocacy services when dealing with issues of dating violence, sexual assault, childhood abuse, or stalking. The mission of the Women's Resource Center supports the values of social justice, community, safety, leadership, mentoring, education, diversity and research.

There are opportunities to get involved through ongoing programs such as the Women Involved in Learning and Leading program (WILL), the Young Women Leaders program (YWLP), the Men Against Violence program (MAV) and the Unscripted peer educator program. Additionally, there are opportunities to be involved with special events and programming sponsored and co-sponsored by the Women's Resource Center, such as the Brown Bag Lunch Series, book clubs, conferences and awareness event activities.

For additional information about programs and services, contact the Women's Resource Center at (205) 348-5040 or check out their Web site at wrc.ua.edu.

TRANSPORTATION SERVICES/ PARKING

Campus parking maps and campus parking rules and regulations are available at the Transportation Services offices located at 103 Student Services Center, and are available online at bamaparking.ua.edu.

UNIVERSITY OF ALABAMA POLICE DEPARTMENT

For information on University Police services and personal safety information, consult the Safer Living Guide, available at the main desk of the UA Police Department, UA residential dorms, UA libraries and at businesses surrounding the UA campus. Visit our Web site at police.ua.edu. The UA Annual Campus Security Report containing crime statistics as well as crime prevention policies and procedures is available online at our Web site at safety.ua.edu.

UNIVERSITY OF ALABAMA STUDENT HEALTH CENTER

The University of Alabama provides comprehensive, high-quality, and easily accessible health care for its students through the University of Alabama Student Health Center (UASHC). Located at the corner of University Boulevard and 5th Avenue East, next to the University Medical Center, the UASHC is accredited by the Accreditation Association for Ambulatory Health Care (AAAHC). The UASHC can meet most, though not all, medical needs of University of Alabama students.

For more information, call (205) 348-6262 or visit us online at www.cchs.ua.edu/shc.

UNIVERSITY OF ALABAMA WRITING CENTER

The University of Alabama Writing Center, a free tutorial service available to all UA students, provides professional assistance with writing assignments in most academic disciplines. Staffed by graduate students, the Writing Center helps students to improve their writing relative to specific assignments and to apply newly learned skills to future writing tasks. The Writing Center is located in 322 Lloyd Hall. Appointments are encouraged; walk-ins are welcome. Visit www.as.ua.edu/writingcenter for complete details.

CODE OF STUDENT CONDUCT

PREAMBLE

The University of Alabama aspires to transmit knowledge, to develop its students, and to promote the quality of society. In seeking these goals, the University recognizes the significance of student rights. These rights include freedom of expression, autonomy, procedural protection, and the integrity of people and their property. By ensuring these individual rights, the University fosters an environment conducive to student success and well-being. The Code of Student Conduct fully respects student rights.

Of course, students have obligations as well as rights. As members of an academic community, they must observe rules that benefit their classmates and their University. Students must practice personal integrity. By so doing, they respect the dignity, rights, and property of others, both students and all members of the University community. The Code of Student Conduct thus creates an expectation of behavior that the University deems acceptable. By fulfilling these expectations, students can enjoy their own rights, while also respecting their classmates' rights and furthering the University's goals.

However, the University community, as any other, must have a system to deal with those instances when a member fails to adhere to the expectations of the community. The Code of Student Conduct describes the actions which fail to meet expectations, the process of determining when a failure has occurred, and the punishment to be imposed for such failure.

ARTICLE I: JUDICIAL AUTHORITY

The judicial authority rests with the Division of Student Affairs. The University president has designated the vice president for student affairs to be responsible for the administration and operation of this Code of Student Conduct. The vice president shall appoint a judicial administrator who shall be responsible for the operation of this Code.

Jurisdiction of the University

Generally, University jurisdiction and discipline shall be limited to conduct which occurs on University premises or which occurs anywhere, but adversely affects the University community and/or the pursuit of its objectives. A student will be subject to the Code of Student Conduct for any action which violates this Code, which occurs on University property, or which affects the University community and/or pursuit of University objectives.

Violation of Law and University Discipline

- If a student is cited only with an off-campus violation of federal, state, or local laws, but not with any other violation of the Code, disciplinary action may be taken and sanctions imposed for misconduct which demonstrates disregard for the University community.
- University disciplinary proceedings may be instituted against a student cited with violation of a law which is also a violation for this student code if both violations result from the same factual situation, without regard to the pendency of civil litigation in court or criminal arrest and prosecution. Proceedings under this student code may be carried out prior to, simultaneously with, or following civil or criminal proceedings off-campus.
- When a student is cited by federal, state, or local authorities with a violation of the law, the University will not request or agree to special consideration for that individual because of his or her status as a student. If the alleged offense is also the subject of a proceeding before a judicial body under the student code, however, the University may advise off-campus authorities of the existence of the student code and of how such matters will be handled internally within the University community. The University will cooperate fully with law enforcement and other agencies in the enforcement of criminal law on campus and in the conditions imposed by criminal courts for the rehabilitation of student violators. Individual students and faculty members, acting in their personal capacities, remain free to interact with governmental representatives as they deem appropriate.

Operation of the Judicial System

- The judicial administrator shall receive from judicial bodies recommendations for sanctions to be imposed upon students who have been found to have violated this Student Code. Except in cases resulting in expulsion, in which the Vice President for Student Affairs is required to make the final decision, the judicial administrator shall make the final decision and shall notify the student of the sanction which is imposed.
- The judicial administrator shall determine the composition of judicial bodies and review boards and determine which judicial body and review board shall be authorized to hear each complaint.
- The judicial administrator shall develop policies for the administration of the judicial program and procedural rules for the conduct of hearings which are not inconsistent with provisions of the student code.
- Decisions made by a judicial body shall be final, pending the normal review process.
- A judicial body may be designated a mediator of disputes within the student community in cases which do not involve a violation of the Code of Student Conduct. All parties must agree to mediation and be bound by the decision with no right of appeal.

ARTICLE II: DEFINITIONS

- The term "University" means The University of Alabama, Tuscaloosa, Alabama.
- The term "students" includes all persons taking courses at the University, both full-time and part-time, pursuing undergraduate, graduate, or professional studies. Persons who are not officially enrolled for a particular term but who have a continuing relationship with the University are considered "students."
- The term "faculty member" means any person hired by the University to conduct classroom activities.
- The term "University official" includes any person employed by the University, performing assigned administrative or professional responsibilities.
- The term "member of the University community" includes any person who is a student, faculty member, University official, or any other person employed by the University. A person's status in a particular situation shall be determined by the judicial administrator.
- The term "University premises" includes all land, buildings, facilities, and other property in the possession of or owned, used, or controlled by the University (including adjacent streets and sidewalks).
- The term "organization" means any number of persons who have complied with the formal requirement for university recognition/registration.
- The term "judicial body" means any person or persons authorized by the judicial administrator to determine whether a student has violated the Code of Student Conduct and to recommend imposition of sanctions.
- The term "judicial administrator" means the University official appointed by the vice president for student affairs who shall be responsible for the administration and operation of the Code of Student Conduct.
- The term "judicial investigator" means a University official appointed by the judicial administrator to investigate alleged violations of misconduct, to attempt informal (administrative) resolution of such complaints, and to prosecute violations before a judicial body.
- The term "hearing officer" means a University official authorized on a complaint-by-complaint basis by the judicial administrator to hear alleged violations and to recommend sanctions to be imposed upon students found to have violated the Code of Student Conduct.
- The term "review board" means any person or persons authorized by the judicial administrator to consider a review from a judicial body's determination that a student has violated the student code or from the sanctions imposed by the judicial administrator.
- The term "shall" is used in the imperative sense.
- The term "may" is used in the permissive sense.
- The term "policy" is defined as any published regulations of the University as found in, but not limited to, the Student Handbook, Residential Life Handbook, and graduate/undergraduate catalogs.
- The term "substantial information" means information which would lead a reasonable person to conclude that it is more likely than not that the act in question did occur.

ARTICLE III: PROSCRIBED CONDUCT

Any student found to have committed the following acts of misconduct is subject to the disciplinary sanctions outlined in Article V:

Offenses Against the University Community

1. Acts of dishonesty, including but not limited to the following:
 - a) Furnishing false information to any University official, faculty member, or office.
 - b) Forgery, alteration, or misuse of any University document, record, or instrument of identification.
 - c) Tampering with the election of any University-recognized student organization.
2. Disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other University activities, including its public-service functions, whether on or off-campus, and other authorized non-University activities which occur on University premises.
3. Failure to comply with directions of University officials or law enforcement officials acting in performance of their duties and/or failure to identify oneself to these persons when requested to do so.
4. Violation of published University policies, rules or regulations, including, without limitation, the Social Event Alcohol Policy, parking and traffic regulations, etc.

Offenses Against Persons

1. Physical abuse, verbal abuse, threats, stalking, intimidation, harassment, sexual misconduct, coercion, and/or other conduct which threatens or endangers the health or safety of any person. This paragraph is intended to include any contact or communication which threatens, harasses, or injures a person.
2. Hazing, defined as an act which endangers the mental or physical health or safety of a student, or which destroys or removes public or private property, for the purpose of initiation, admission into, affiliation with, or as a condition for continued membership in, a group or organization.

Offenses Against Property

1. Attempted or actual theft of and/or damage to property of the University or property of a member of the University community or other personal or public property.
2. Unauthorized possession, duplication, or use of keys to any University premises or unauthorized entry to or use of University premises.
3. Theft or other abuse of computer time, including but not limited to:
 - a) Unauthorized entry into a file, to use, read, or change the contents, or for any other purpose.
 - b) Unauthorized transfer of a file.
 - c) Unauthorized use of another individual's identification and password.
 - d) Use of computing facilities to interfere with the work of another student, faculty member, or University official.
 - e) Use of computing facilities to send obscene or abusive messages.
 - f) Use of computing facilities to interfere with normal operation of the University computing system.
4. Damage to or littering on public grounds of the University, including driving motor vehicles on lawns or grounds of University property, without prior authorization from the appropriate University official.

Offenses Disrupting Order or Disregarding Health and Safety

1. Use, possession, or distribution of narcotic or other controlled substances except as expressly permitted by law.
2. Use, possession, or distribution of alcoholic beverages except as expressly permitted by the law and University regulations, or public intoxication.
3. Illegal or unauthorized possession of firearms, explosives, other weapons, or dangerous chemicals on University premises.
4. Participation in a campus demonstration which disrupts the normal operations of the University and infringes on the rights of other members of the University community; leading or inciting others to disrupt scheduled and/or normal activities within any campus building or area; and intentional obstruction which unreasonably interferes with freedom of movement, either pedestrian or vehicular, on campus.

5. Obstruction of the free flow of pedestrian or vehicular traffic on University premises or at University-sponsored or supervised functions.

6. Conduct which is disorderly, lewd, or indecent; breach of peace, or aiding, abetting, or procuring another person to breach the peace, on University premises or at functions sponsored by, or participated in by, the University.
7. Violation of federal, state, or local law on University-premises or at University sponsored or supervised activities.
8. Entering false fire alarms or bomb threats and/or tampering with fire extinguishers, alarms, or other safety equipment.
9. Violation of traffic and parking rules and regulations, including, but not limited to:
 - a) Repeated or flagrant violations of the rules as set forth in University Traffic and Parking Regulations.
 - b) Tampering with, removal of, or theft of wheel locks, barricades, traffic cones, or traffic control devices.
10. Violation of federal, state, or local law off University premises and not related to University sponsored or supervised activities which adversely affects the University community and/or the pursuit of its objectives. The decision to pursue disciplinary action under this provision is that of the vice president for student affairs or a designee.
- 11a. The operation of any form of gambling business or any activity sponsored by an organization identified as an approved University organization unless specifically approved by the Office of the Dean of Students. Any student or group of students who accepts or manages a large number of wagers or who provides the mechanisms for wagering or for playing games of chance for profit will be presumed to be operating a gambling business.
- 11b. Facilitating or encouraging gambling by a student athlete or seeking or encouraging a student athlete to provide information or advice regarding competitions in which he or she will participate.

Abuse of the Judicial System

1. Failure to obey the summons of a judicial body or University official.
2. Falsification, distortion, or misrepresentation of information before a judicial body.
3. Disruption or interference with the orderly conduct of a judicial proceeding.
4. Institution of a judicial proceeding knowingly without cause.
5. Attempting to discourage an individual's proper participation in, or use of, the judicial system.
6. Attempting to influence the impartiality of a member of a judicial body prior to, and/or during the course of, the judicial proceeding.
7. Harassment (verbal or physical) and/or intimidation of a member of a judicial body prior to, during, and/or after a judicial proceeding.
8. Failure to comply with sanction(s) imposed under the Code of Student Conduct.
9. Influencing or attempting to influence another person to commit an abuse of the judicial system.
10. Any other act which is intended to or has the effect of delaying or interfering with the orderly operation of the judicial process.

ARTICLE IV: ORGANIZATIONAL MISCONDUCT

Student organizations enrich the campus and community by providing a source of intellectual, personal, and social development of students through their programs and activities. The University fulfills an important mission by providing procedures and policies for the registration and support of student organizations.

Inherent in University recognition of student organizations is the obligation for each organization to conduct activities in accordance with University rules and policies and applicable laws. Student organizations are required to comply with the written rules and policies of the University.

Responsibility of Officers

A fundamental aspect of any organization is the right of the membership to elect officers who serve to ensure, among their other duties, that the activities of the organization are conducted properly. It is the responsibility of the officers of each student organization to ensure that the organization complies with this Code of Student Conduct and to actively oppose and

prevent any planned organizational activity which would violate the Code of Student Conduct. It is also the obligation of the officers of any student organization to advise and counsel individual members of their organization whose conduct could lead to misconduct violations against the organization, as provided herein.

Organizational Responsibility for Misconduct

Student organizations will be held responsible for misconduct in the following circumstances:

1. Organizational responsibility for its own acts. The organization will be held responsible:
 - a) When the organization fails to comply with a duty imposed by a written University policy, including, but not limited to, improper membership education and initiation, improper organizational registration of activities for which registration and/or permission is required; failure to comply with applicable health and safety regulations; misuse of University property, facilities and equipment; violations of University regulations on the use of alcohol; and violations of any other rule or policy applicable to organizations.
 - b) When one or more officers refuse or neglect to perform their duties under this code as described above in Article IVa.
2. Organizational responsibility for individual acts of misconduct.
 - a) The organization will be held responsible for the actions of one or more of its members which violate this Code of Student Conduct when the actions arise in the course of or derive from the activities of the organization.
 - b) In situations other than those described in (a) above, the organization may be held responsible for a member or members' misconduct when, prior to such misconduct, a member or members have committed acts of misconduct the nature of which has caused the Office of the Dean of Students to be concerned that the organization is not conducting activities in a manner which discourages such conduct, and the dean of students has notified the organization that further occurrences of such conduct by one or more members will result in disciplinary actions against the organization. Examples of such violations include, but are not limited to, offenses against persons, offenses against property, alcohol abuse, and illegal drug use. The notice will be in sufficient detail to notify the officers of the precise nature of the offenses and the length of time the notice shall be effective.

ARTICLE V: JUDICIAL PROCEDURES

Complaints and Investigations

1. Any member of the University community may file complaints against any student for misconduct. Complaints shall be prepared in writing and directed to the Office of Student Judicial Affairs. Any alleged violation should be submitted as soon as possible after the event takes place, preferably within one month (28 days) of the knowledge of occurrence.
2. Any judicial investigator, who has reason to believe that a violation of the Code of Student Conduct may have occurred, is authorized to begin an investigation in the same manner as if a written complaint had been received. The Office of Student Judicial Affairs may investigate and cite students or organizations with misconduct when that office has reason to believe that a violation may have occurred.
3. A judicial Investigator or judicial body may issue a summons for a student or organization to appear for discussions about a complaint or for a hearing in a pending complaint. The summons may also include an order to produce records which may be helpful in the course of an investigation or in the prosecution of a complaint.
4. The judicial investigator may conduct an investigation to determine if the alleged violations have merit and/or if they can be disposed of administratively by mutual consent of the parties involved on a basis acceptable to the judicial investigator, subject to the approval of the judicial administrator. Such disposition shall be final and there shall be no subsequent proceedings.
5. All alleged violations shall be presented to the accused student in written form. A time shall be set for a hearing, not less than five nor more than 15 calendar days after the student has been notified. Maximum time limits for scheduling of hearings may be extended at the discretion of the judicial administrator.

Hearings

1. Hearings shall be conducted by a judicial body according to the following guidelines. A hearing officer shall exercise all the powers attributable to the chairperson of the judicial body as described below. Student organizations shall have all the rights of students listed herein, which shall be exercised by the president of the organization.
 - a) Hearings normally shall be conducted in private. At the request of the accused student, and subject to the discretion of the chairperson of the judicial body, a representative of the student press may be admitted, but shall not have the privilege of participating in the hearing.
 - b) Admission of any person to the hearing shall be at the discretion of the chairperson of the judicial body.
 - c) In hearings involving more than one accused student, the chairperson of the judicial body, in his or her discretion, may permit the hearings concerning each student to be conducted separately.
 - d) The accused has the right to be assisted by any advisor he/she may choose, at their own expense. The advisor may be an attorney. The accused is responsible for presenting his or her own case, and, therefore, advisors are not permitted to speak or to participate directly in any hearing before a Judicial Body.
 - e) The judicial investigator and the accused shall have the privilege of presenting witnesses, subject to the right of cross-examination by the other party and by the Judicial Body.
 - f) Pertinent records, exhibits, and written statements may be accepted as information for consideration by a judicial body at the discretion of the chairperson.
 - g) All procedural questions are subject to the final decision of the chairperson of the judicial body.
 - h) After the hearing, the judicial body shall deliberate in private and shall determine (by majority vote if the judicial body consists of more than one person) whether the student has violated the Code of Student Conduct as cited.
 - i) The judicial body's determination shall be made on the basis of whether there is substantial information that the accused student violated the Code of Student Conduct.
2. There shall be a single verbatim record, such as a tape recording, of all hearings before a judicial body. The record shall be the property of the University.
3. Except in the case of a student cited with failing to obey the summons of a judicial body or University official, no student may be found to have violated the Code of Student Conduct solely because the student failed to appear before a judicial body. In all cases, the information in support of the alleged violation shall be presented and considered.

Sanctions

1. The following sanctions may be imposed upon any student found to have violated the Student Code:
 - a) Warning—a notice in writing to the student.
 - b) Probation—a written reprimand for violation for specified regulations. Probation is for a designated period of time and includes the probability of more severe disciplinary sanctions if the student is found to be violating any University regulation(s) during the probationary period.
 - c) Loss of Privileges—denial of specified privileges for a designated period of time.
 - d) Fines—previously established and published fines may be imposed.
 - e) Restitution—compensation for loss, damage, or injury. This may take the form of appropriate service and/or monetary or material replacement.
 - f) Discretionary sanctions—work assignments, service to the University, or other related discretionary assignments (such assignments must have the prior approval of the judicial administrator).
 - g) Residence hall suspension—separation of the student from the residence halls for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
 - h) Residence hall expulsion—permanent separation of the student from the residence halls.
 - i) University suspension—separation of the student from the University for a definite period of time, after which the student is eligible to return. Conditions for readmission may be specified.
 - j) University Expulsion: Separation of the student from the University permanently or on an indefinite basis. A student permanently expelled is prohibited from reapplying to the University in the future or from earning a degree from any of its colleges or schools. Readmission of a student

expelled on an indefinite basis may not occur within five years and shall require the recommendation of the Vice President for Student Affairs and approval of the Provost. If a disciplinary action results in the Judicial Administrator determining that expulsion is the appropriate sanction, then the Vice President for Student Affairs shall review the sanction and shall make the final decision to expel after consultation with the President of the University. Because a decision to expel a student is made after consultation with the President, a student has no right to request a review of the sanction of expulsion.

2. The following sanctions may be imposed upon any organization found to have violated the Code of Student Conduct:
 - a) Any of the sanctions listed in paragraphs 1(a) through 1(f) above.
 - b) Loss of recognition as a registered student organization. The Office of the Dean of Students shall notify any national or regional governing body with which the organization is associated or which sponsors social, academic, or sports events when such suspension is imposed.
3. More than one of the sanctions listed above may be imposed for any single violation.
4. When a judicial body determines that a student has violated the Code of Student Conduct, the judicial body shall recommend a sanction to be imposed to the judicial administrator. The judicial administrator shall review the facts in the complaint, shall review any prior violations of the Code by the student, and shall determine the appropriate sanction to be imposed. The judicial administrator is not limited to sanctions recommended by the judicial body. The judicial administrator shall advise the student in writing of the sanction(s) imposed.

Reviews

1. A decision reached by the judicial body or a sanction imposed by the judicial administrator (excluding the sanction of expulsion of a student, which is determined by the Vice President for Student Affairs after consultation with the President) may be reviewed by a student to a review board within five (5) school days of the decision. Such reviews shall be in writing and shall be delivered to the judicial administrator or his or her designee.
2. Except as required to explain the basis of new information, a review shall be limited to review of the verbatim record of the initial hearing and supporting documents for one or more of the following purposes:
 - a) To determine whether the original hearing was conducted fairly in light of the alleged violations and information presented, and in conformity with prescribed procedures giving the accused student a reasonable opportunity to prepare and to present a defense to the allegations of the misconduct.
 - b) To determine whether the decision reached regarding the accused student was based on substantial information, that is, whether the facts in the complaint were sufficient to establish that a violation of the Code of Student Conduct occurred.
 - c) To determine whether the sanction(s) imposed were appropriate for the violation of the Code of Student Conduct which the student was found to have committed.
 - d) To consider new information, sufficient to alter a decision, or other relevant facts not brought out in the original hearing, because such information and/or acts were not known to the person reviewing at the time of the original hearing.
3. If a review is upheld by the review board, the matter shall be remanded to the original judicial body or the judicial administrator to allow reconsideration of the original determination.
4. Review of the sanction by the review board may not result in more severe sanction(s) for the accused student or organization. Instead, following a review, the vice president of student affairs or other designee may, upon review of the complaint, reduce, but not increase, the sanctions imposed by the judicial administrator.

Disciplinary Records

Disciplinary sanctions shall not be made part of the student's permanent academic record, but shall become part of the student's confidential record. Complaints involving the imposition of sanctions other than University suspension shall be expunged from the student's confidential record seven years from the year in which the offense occurred.

Interim Suspension

In certain circumstances, the vice president for student affairs, or a designee, may impose a University or residence-hall suspension prior to the hearing before a judicial body.

1. Interim suspension may be imposed only
 - a) to ensure the safety and well-being of members of the University community or preservation of University property
 - b) to ensure the student's own physical or emotional safety and well-being
 - c) if the student poses a definite threat of disruption of or interference with the normal operations of the University
2. During an interim suspension, the student shall be denied access to the residence halls and/or to the campus (including classes) and/or all other University activities or privileges for which the student might otherwise be eligible, as the vice president for student affairs, or a designee, may determine to be appropriate.
3. Upon a student's request, a review of the interim suspension shall be held by the vice president for student affairs or other designee, within three (3) working-days of the interim suspension to determine if the suspension should continue until a hearing by a judicial body on the alleged violation of misconduct is held.

Interim Suspension of an Organization

1. The vice president for student affairs or other designee may temporarily suspend the recognition of a student organization when the pending alleged violations arise from a flagrant violation of this code, such as organizational conduct which is a violation of law and/or this Code, or when the conduct represents a flagrant disregard of the rights or property of persons in the University community, or when the conduct is in flagrant disregard of the property or authority of the University.
2. During the interim suspension, the organization shall discontinue all activities.
3. A hearing will be held by the vice president for student affairs or a designee, within three (3) working-days of the interim suspension to determine if the suspension should continue until a hearing by a judicial body on the alleged violation of misconduct is held.

Judicial Affairs. Located in 107 Burke West, the Office of Student Development promotes a safe and supportive University community by serving as a resource for students, faculty, and staff who may be affected by others' misconduct. In addition to the administration of the Code of Student Conduct, the office is an advocate for community standards and campus civility through educational programming, mediation, and resolution of student disputes and conflicts of non-academic misconduct. For general information and assistance, contact The University of Alabama, Office of Student Judicial Affairs, Box 870295, Tuscaloosa, AL 35487-0295 or call (205) 348-8234.

In the event of any conflict, the Code found on the Web site will govern:
<http://ja.ua.edu/code.htm>.

Revised: Spring 2007

MILITARY PROGRAMS

ARMY RESERVE

OFFICERS' TRAINING CORPS STUDIES

Army ROTC is a college elective that focuses on leadership and management skills. The ROTC program consists of the Basic Course and the Advanced Course. The Basic Course provides college students the opportunity to learn about and experience the U.S. Army without incurring any military obligation during their freshman and sophomore years. The Advanced Course prepares juniors, seniors, and graduate students for commissioning as officers in the active U.S. Army, U.S. Army Reserve, or Army National Guard.

Two-Year or Four-Year Program

The program in military science may be completed in either two or four years. The two-year program requires students to have a minimum of 54 semester hours and meet the qualifications to enter the Advanced Course. The qualifications for entering the Advanced Course include completion of one of the following: MIL 250 Leader Training Course; four years of high school Junior ROTC; prior military service (veteran) or completion of Basic Training with the National Guard/Reserve. All students entering the Advanced Course receive a monthly tax-free stipend for 10 months of the year (\$450 for juniors and \$500 for seniors). The four-year program requires students to take Basic Course electives at the University and then enter the Advanced Course.

Basic Course

The Basic Course refers to freshman-level and sophomore-level Military Science electives. Students wishing to enter the Basic Course simply register for one or more of the course electives. There is absolutely no military obligation incurred by taking these electives for freshman students or nonscholarship sophomores. The minimum electives necessary for completing the Basic Course follow:

- MIL 110 Leadership and National Security. 1 hour.
- MIL 111 Leadership Application I and II Lab. 1 hour.
- MIL 120 Foundations of Leadership and Team Development. 1 hour.
- MIL 121 Leadership Application I and II Lab. 1 hour.
- MIL 210 Basic Leadership Skills. 2 hours.
- MIL 211 Military Leadership and Management Application I and II Lab. 1 hour.
- MIL 220 Military Leadership Skills. 2 hours.
- MIL 221 Military Leadership and Management Application I and II Lab. 1 hour.

-OR-

MIL 250 Leader's Training Course. 6 hours.

Students taking Military Science classes as electives are not required to wear uniforms.

Advanced Course

The Advanced Course consists of junior-level and senior-level Military Science electives. The course requires students to take the electives in sequence unless authorized by the professor of military science, and complete the Leader Development & Assessment Course (LDAC). The LDAC is a paid 32-day leadership evaluation course conducted at Fort Lewis, Washington, during the summer between the junior and senior years. The Advanced Course consists of the following core courses.

- MIL 310 Small Unit Tactical Leadership. 3 hours.
- MIL 311 Small Unit Leadership Applications I and II Lab. 1 hour.
- MIL 320 Advanced Military Leadership. 3 hours.
- MIL 321 Small Unit Leadership Applications I and II Lab. 1 hour.
- MIL 410 Ethics and the Military as a Profession. 3 hours.
- MIL 411 Advanced Leadership Applications Lab I and II. 3 hours.
- MIL 420 Advanced Leadership and Management Techniques. 3 hours.
- MIL 421 Advanced Leadership Applications Lab I and II. 3 hours.

Army ROTC Scholarship Program

Army ROTC offers four-year, three-year, and two-year scholarships. The scholarships pay 100 percent resident or nonresident tuition; \$1,200 per year for books; and a monthly tax-free stipend for 10 months of the year (\$300/month for freshmen, \$350/month for sophomores, \$450/month for juniors, and \$500/month for seniors). All enrolled cadets are also eligible to compete for a number of awards provided by alumni endowments, ranging from \$200 to \$1,000 per year. Army ROTC selects freshman scholars based on high school GPAs, ACT or SAT scores, class standing, extracurricular activities, and scholarship interviews. High school students can apply online for four-year scholarships at www.goarmy.com/rotc. The deadline for four-year scholarship applications is normally January 1 each year.

Three-year and two-year scholarship selections (undergraduates and graduate students) are based on college GPA, Army Physical Fitness Test scores, leadership potential, and scholarship interviews. Initial selections for three-year and two-year scholarships are made in late April. Applications for campus-based scholarships are accepted year-round at the Military Science Department, 610 Capstone Drive, located adjacent to the Alabama Museum of Natural History. Interested applicants should contact the Army ROTC department at (205) 348-1056 or via bama.ua.edu/~armyrotc.

Army ROTC Stipend

All Army ROTC sophomores, juniors, and seniors who meet the eligibility requirements for contracting are eligible for a tax-free stipend for 10 months of the year (\$350/month for sophomores, \$450/month for juniors, and \$500/month for seniors). Eligibility requirements include a minimum cumulative GPA of 2.0; passage of the Army Physical Fitness Test; meeting DODMERB physical exam qualifications; being a U.S. citizen, full-time student, and of good moral character.

Degree Credit toward Minor

All Army ROTC courses are fully accredited University classes. Credit for these courses can be applied toward elective credit or a minor in Civic Engagement and Leadership (CEL) through the College of Arts and Sciences. This minor consists of 19 semester hours, of which at least 6 hours must be 300- or 400-level courses. In addition, students must take PHL 200 or PHL 202 and NEW 237 or NEW 238. Students may apply up to 12 semester hours of military science courses toward the civic engagement and leadership minor. It is recommended that Army ROTC cadets apply credit for MIL 310, MIL 320, MIL 410, and MIL 420 toward this minor and take PHL 200 or PHL 202 and NEW 237 or NEW 238. This course of action provides 12 semester hours of credit toward the minor, meets the 300- or 400-level course requirements, and provides core degree credit for a humanities course. For additional details, please contact the Military Science Department at (205) 348-1056.

Military Science (MIL) Course Descriptions

MIL 110 Leadership and National Security. 1 hour.

This course educates students in the fundamentals of leadership and national security. Using the U.S. Army as a case study, students examine military organizational culture, roles and missions of the armed forces, leadership management, and leader communication skills. Additionally, through practical exercises, students develop individual leadership skills in problem solving, land navigation, and rifle marksmanship. The course counts toward credit for completion of the Army ROTC Basic Course, entrance into the Army ROTC Advanced Course, and eventual commissioning as an officer in the U.S. Army. Students taking this course do not incur any military obligation. Course meets one time per week in accordance with the fall schedule of classes.

MIL 120 Foundations of Leadership & Team Development. 1 hour.

Course serves as a sequel to MIL 110 Leadership and National Security and educates students in the fundamental military skills. Using the MIL 110 class as a foundation, students examine mission analysis, time management, leadership management, and leader communication skills. Through practical exercises, students develop individual leadership skills in problem solving, land navigation, and rifle marksmanship. The course counts toward credit for completion of the Army ROTC Basic Course, entrance into the Army ROTC Advanced Course, and eventual commissioning as an officer in the

U.S. Army. Students taking this course do not incur any military obligation. Course meets one time per week in accordance with the spring schedule of classes.

MIL 111 and MIL 121 Leadership Application I and II Lab. 1 hour.

Course provides students the opportunity to apply leadership theory in a wide range of scenarios. Using small unit tactics as a vehicle, students learn a series of individual technical skills and then transition to leading fellow students in collective tasks. This course meets weekly in accordance with the fall/spring schedule of classes.

MIL 210 Basic Leadership Skills. 2 hours.

This course builds on MIL 120. Students focus on leadership development and officership. Throughout the course students learn personal development, problem solving, planning, teamwork, Army values, and the basics of physical fitness. There are also several practical exercises in which the student will learn beginner skills such as knot tying, rope bridging, land navigation, and marksmanship. This course counts toward credit for completion of the U.S. Army ROTC Basic Course and eventual commissioning as an officer in the U.S. Army. Students taking this course do not incur any military obligation. The course meets twice a week per the fall schedule of classes.

MIL 220 Military Leadership Skills. 2 hours.

This class is a sequel to MIL 210 Basic Military Skills. There is a continued focus on leadership development through practical exercises and classroom interaction. Some of the topics covered are goal setting, oral communication, decision making, teamwork, and stress management. There is also a continuation of basic skills such as land navigation and map reading. This semester, more than any before, draws together the various components of values, communications, decision making, and leadership to focus on the qualities required of a commissioned officer. Upon completion of this semester, cadets should possess a fundamental understanding of both leadership and officership and demonstrate the ability to apply this understanding to real-world situations. This course counts toward credit for completion of the U.S. Army ROTC Basic Course and eventual commissioning as an officer in the U.S. Army. Students taking this course do not incur any military obligation. The course meets twice weekly per the spring schedule of classes.

MIL 211 and MIL 221 Military Leadership and Management Application I and II Lab. 1 hour.

This course uses a series of demonstrations and practical exercise scenarios to develop basic leadership competency. Students have the opportunity to observe and experiment with different leadership and management techniques. The course instills individual leadership confidence and provides a structured mechanism for identifying leadership potential. Each course meets once weekly per the fall/spring schedule of classes.

MIL 250 Leader's Training Course. 6 hours.

This 28-day leader internship is taught as an off-campus extension course each summer at Fort Knox, Kentucky. It is open to students who have a minimum of 48 semester hours and at least four semesters of degree work remaining (undergraduate or graduate) after completion of the course. The Army provides transportation to and from Fort Knox. Students receive free room and board and are paid for their attendance. They participate in hands-on leadership exercises and receive training in marksmanship, rappelling, water survival, land navigation, and small unit tactics. Course participants are eligible to validate or compete for two-year scholarships. For information, contact Army ROTC at (205) 348-1056.

MIL 310 Small Unit Tactical Leadership. 3 hours.

Course studies development of leadership and small unit tactics that provide training and education in becoming a commissioned officer in the U.S. Army. Students participate in a series of practical exercises to enhance leadership skills and receive personal assessments of and developmental training in leadership competencies. Students produce both written and oral guidance for team members to accomplish tasks. Additionally, cadets receive out-of-class training during field exercises, physical training, and leadership labs. Participation in leadership development lab is required. Class meets three times weekly in accordance with the schedule of classes.

MIL 320 Advanced Military Leadership. 3 hours.

Course continues the development of student competencies and confidence through intermediate leadership, technical, and tactical instruction. Students lead small groups in accomplishing tasks of increasing complexity. Significant training in oral briefing and time management during time-constrained and stressful situations is used to improve decision-making skills. It examines the importance of ethical decision making in improving team performance. It requires participation in leadership development lab. Class meets three times weekly in accordance with the fall/spring schedule of classes.

MIL 311 and MIL 321 Small Unit Leadership Applications I and II Lab.

1 hour.

Series of practical applications of small unit tactics, leadership skills, and technical competencies learned in the classroom. Participation is required of all MIL 310 and MIL 320 students. Class meets weekly per the fall/spring schedule of classes.

MIL 335 American Military Experience. 3 hours.

Course provides an introduction to and overview of American military history with a focus on the U.S. Army. Follows the origins of the American military experience from Anglo-American colonial warfare to the present; includes America's major wars and the evolution of military technology. This class meets two times a week per the fall/spring schedule of classes.

MIL 410 Ethics and the Military as a Profession. 3 hours.

Course studies distinguishing characteristics of professionalism and how they relate to the military as a profession. Emphasis is on ethical decision making and obligations of officership in a democratic society. Interpersonal skills and behavioral processes are covered and applied in practical exercises to further develop student management and leadership skills. Class meets twice per week per the fall/spring schedule of classes.

MIL 411 and MIL 421 Advanced Leadership Applications Lab I and II.

3 hours.

Course educates students in executive leadership management and prepares them for post-commissioning tasks as Army officers. Students fill basic command and staff positions and are responsible for planning, coordinating, and conducting the Corps of Cadets training activities. This class meets weekly per the fall/spring schedule of classes.

MIL 420 Advanced Leadership and Management Techniques. 3 hours.

Course studies advanced leadership with an emphasis on command and staff processes, training management fundamentals, communication processes, and problem solving and instructional techniques with a concentration on military applications. Individual and group motivational and behavioral processes are exercised to further develop student management and leadership skills. This class meets two times a week per the fall/spring schedule of classes.

MIL 490 Enhanced Leadership Study. 3 hours.

Independent leadership focusing on advanced leadership applications, distinguishing characteristics of professionalism, and how they relate to officership in a democratic society. Additional emphasis is placed on researching a specific leadership issue and/or problem solving and solution development. Interpersonal skills and behavioral processes are covered and applied in faculty exercise reviews to further develop the student's management and leadership skills.

MIL 493-497, Independent Study Series. 1 hour each. This series is restricted to contracted cadets and commissioned officers; it requires permission of the Professor of Military Science and an Army Knowledge Online account to enroll. Individual courses are Design Fitness Program, Risk Management and Safety, Academic Mentorship Program, Operations Planning, Ethical Foundations, and Human Resources Internship.

Faculty

SHAVER, JAMES P., Lieutenant Colonel, MA (Long Island University). Professor of Military Science and Department Head

AIR FORCE STUDIES (AIR FORCE ROTC)

The program in Air Force studies (Air Force ROTC) affords students opportunities to learn about the United States Air Force and its role in national security while exploring the opportunity to earn an Air Force officer's commission concurrent with a college degree. Freshman and sophomore courses are open to all students and incur no military obligation. The courses are fully accredited, 1-hour electives.

A number of scholarships are available to qualified students in Air Force ROTC. The scholarships pay full tuition, provide reimbursement for required books and fees, and provide \$300–\$500 (tax free) per month, based on AFROTC year completed.

Advanced ROTC courses (junior- and senior-level) are open not only to students who choose to work toward officer's commissions and who meet established aptitude, academic, and physical standards required of officers, but also to other interested students.

To enroll in Air Force ROTC, a student simply registers for a course in Air Force studies.

Air Force ROTC is designed to include one course in Air Force studies each semester for four years. However, a two-year option is available. To participate in the two-year program, interested students must contact the department no later than the beginning of the second semester of the sophomore year. Please contact the Office of Air Force Studies for more information.

General Military Course

The General Military Course (GMC) is designed for freshman and sophomore students who wish to explore the opportunity to pursue Air Force officer's commissions while studying the role of air power in today's society. Each General Military Course has a corequisite lab course each semester.

Professional Officer Course

The Professional Officer Course (POC), normally taken during the cadet's junior and senior years, is designed to commission highly qualified junior officers for the United States Air Force. This course concentrates on two main themes: concepts of leadership and management, and national security forces in contemporary society.

Enrollment in the Professional Officer Course is open to all students who have met prerequisites, who have four semesters of school remaining (may include graduate studies), and who have received approval from the professor of Air Force studies. Please consult the department for details.

Three credit hours per semester, or a total of 12 credit hours, are granted for completion of the Professional Officer Course, plus one credit hour per semester for lab. Students enrolled in the program are paid a tax-free, \$350-to-\$400-per-month subsistence allowance.

AFROTC Field Training

Field training (FT) is offered during the summer months at selected Air Force bases throughout the United States. Each applicant for the Professional Officer Course should attend a summer field training course before his or her junior year. A student who has completed the GMC is assigned to a four-week training unit. Students not completing the GMC must attend five weeks of field training. This requirement must be fulfilled prior to enrollment in the Professional Officer Course; however, this requirement can be deferred.

The major areas of field training include junior officer training, aircraft and aircrew orientation, career orientation, survival training, base functions, Air Force environment, and physical training.

Air Force ROTC College Scholarship Program

The Air Force ROTC awards scholarships at the freshman, sophomore, junior, senior, and graduate levels. These scholarships cover full tuition, laboratory expenses, incidental fees, and required textbooks. Cadets on scholarship also receive \$300–\$500 each month as a nontaxable subsistence allowance during the school year. Apply for this scholarship online at afrtc.com. High school students applying for scholarships are evaluated on the basis of:

- achievement on the CEEB Scholastic Aptitude Test (SAT) or American College Test (ACT)
- high school academic record
- high school record of extracurricular and athletic activities
- recommendation by members of the community and by high-school teachers
- tentative medical eligibility as reported by personal physician

College students who are enrolled in AFROTC (or are considering enrolling in AFROTC) and who meet the eligibility requirements may submit their applications directly to the professor of Air Force studies. The professor of Air Force studies will assemble a selection committee of Air Force ROTC detachment officers who will interview and evaluate each applicant. The information gathered by the committee is forwarded to Air Force ROTC, Maxwell Air Force Base, Alabama. There, the central board reviews all nominees and selects scholarship recipients, who are notified by the professor of Air Force studies. Once awarded a scholarship, a cadet continues on scholarship status until graduation and commissioning, unless he or she falls below the scholarship retention standard. College students are evaluated on the basis of:

- achievement on the Air Force officer qualifying test
- college grade point average
- physical fitness test
- unit commander's evaluation
- medical examination

Degree Credit toward a Minor

All Air Force ROTC courses are fully accredited university classes. Credit for these courses can be applied toward elective credit or a minor in civic engagement and leadership through the College of Arts and Sciences. This minor consists of 19 semester hours, of which at least 6 hours must be 300- or 400-level courses. In addition, students must take PHL 200 or PHL 202 and NEW 237 or NEW 238. Students may apply up to 12 semester hours of Air Force studies courses toward the civic engagement and leadership minor. It is recommended that Air Force ROTC cadets apply credit for AFS 350, AFS 360, AFS 470 and AFS 480 toward this minor and take PHL 200 or PHL 202 and NEW 237 or NEW 238. This course of action provides 12 semesters hours of credit toward the minor, meets the 300- or 400-level course requirements, and provides core degree credit for a humanities course. For additional details, please contact Air Force ROTC at (205) 348-5900.

Uniforms and Equipment

Students are furnished uniforms and other necessary items through the AFROTC supply officer. Upon a student's withdrawal, uniforms and all other supplies must be returned to AFROTC within 72 hours. The full deposit will be refunded, minus laundry charges, to students who return all uniforms and equipment. ROTC texts are furnished to all ROTC students without charge.

Air Force Studies (AFS) Course Descriptions

Lt Col Geoff McClendon, Capt Jim Landers and Capt Ericka Poe

AFS 110 The Foundations of the United States Air Force. 1 hour.

Corequisite: AFS 101 Leadership Laboratory. 1 hour.

This is a survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences. One hour of lecture and 1 1/2 hours of lab per week. Offered fall semester only.

AFS 120 The Foundations of the United States Air Force. 1 hour.

Corequisite: AFS 102 Leadership Laboratory. 1 hour.

This is a survey course designed to introduce students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course

by providing cadets with followership experiences. One hour of lecture and 1 1/2 hours of lab per week. Offered spring semester only.

AFS 230 The Evolution of USAF Air and Space Power. 1 hour.

Corequisite: AFS 201 Leadership Laboratory. 1 hour.

This course is designed to examine general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies) and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air and space power. This course and the mandatory lab provide students with a basic knowledge of the general element and employment of air and space power from an institutional doctrinal and historical perspective. In addition, the students will continue to discuss the importance of the Air Force core values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. One hour of lecture and 1 1/2 hours of lab per week. Offered fall semester only.

AFS 240 The Evolution of USAF Air and Space Power. 1 hour.

Corequisite: AFS 202 Leadership Laboratory. 1 hour.

This course is designed to examine general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies) and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. Furthermore, the course examines several fundamental truths associated with war in the third dimension, e.g., principles of war and tenets of air and space power. This course and the mandatory lab provide students with a basic knowledge of the general element and employment of air and space power from an institutional doctrinal and historical perspective. In addition, the students will continue to discuss the importance of the Air Force core values with the use of operational examples and historical Air Force leaders and will continue to develop their communication skills. One hour of lecture and 1 1/2 hours of lab per week. Offered spring semester only.

AFS 350 Air Force Leadership Studies. 3 hours.

Prerequisite: Completion of four- or six-week field training course or approval of the professor of Air Force studies.

Corequisite: AFS 301 Leadership Laboratory. 1 hour.

A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course. Three hours of lecture and 1 1/2 hours of lab per week. Offered fall semester only.

AFS 360 Air Force Leadership Studies. 3 hours.

Prerequisite: AFS 350 or approval of the professor of Air Force studies.

Corequisite: AFS 302 Leadership Laboratory. 1 hour.

A study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course. Three hours of lecture and 1 1/2 hours of lab per week. Offered spring semester only.

AFS 470 National Security Affairs/Preparation for Active Duty.

3 hours.

Prerequisite: AFS 350 and AFS 360 or approval of the professor of Air Force studies.

Corequisite: AFS 401 Leadership Laboratory. 1 hour.

This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of

interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course. Three hours of lecture and 1 1/2 hours of lab per week. Offered fall semester only.

AFS 480 National Security Affairs/Preparation for Active Duty.

3 hours.

Prerequisite: AFS 470, AFS 350, and AFS 360 or approval of the professor of Air Force Studies.

Corequisite: AFS 402 Leadership Laboratory. 1 hour.

This course examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course. Three hours of lecture and 1 1/2 hours of lab per week. Offered spring semester only.

COLLEGE OF CONTINUING STUDIES

The University of Alabama recognizes that its resources can help individuals meet the challenges of their changing lives. Through the College of Continuing Studies, the University extends academic resources throughout Alabama, the Southeast, and beyond. The College is committed to delivering educational opportunities through online degree programs, evening and weekend programs, distance programs, the Gadsden Center, professional development courses, and a wide variety of professional workshops, seminars, and institutes.

DIVISION OF ACADEMIC OUTREACH

More than ever, students are choosing distance education to pursue their college degrees. The Division of Academic Outreach strives to facilitate distance degree programs to adult learners who are limited by time, geography, work schedules, or personal obligations. Students may choose from formats that will fit their schedules and learning styles such as online, interactive video conferencing, evening and weekend classes, or DVD correspondence.

For more information on these programs, write to The University of Alabama, College of Continuing Studies, Division of Academic Outreach, Box 870388, Tuscaloosa, AL 35487-0388. You may also call (205) 348-0089 or toll free 1-800-467-0227, or e-mail aoinfo@ccs.ua.edu. Visit our Web site (BamaByDistance.ua.edu).

Online Courses

Academic Outreach delivers high school and college courses over the Internet directly to the student's computer. Students are instructed through a secured Internet site, and they interact with their professors and complete lessons. Online courses accommodate the educational needs of individuals who have access to and experience with a computer and the Internet.

External Degree (EXD) Program

The External Degree Program is an interdisciplinary undergraduate distance learning program for adults whose educational needs cannot be met through traditional residential programs. Previously earned academic credits transferred from regionally accredited colleges or earned through national tests such as the College-Level Examination Program (CLEP), independent studies, out-of-class learning contracts, correspondence studies, classroom work, and demonstrated prior learning may be applied toward a bachelor of arts or bachelor of science degree in interdisciplinary studies.

The EXD program is intended to serve adult students whose opportunities to use currently available educational resources may be limited. Applicants must have high school diplomas or minimum General Education Development (GED) equivalency scores of 50, be 25 years of age or older, and have educational goals attainable through the program. Applicants need not be Alabama residents. This degree is awarded through the College of Arts and Sciences.

For more information or to obtain a catalog and application, please call 1-800-452-5971 or visit the Web site (exd.ua.edu).

For specific EXD Program curriculum requirements, please refer to the College of Arts and Sciences New College section in this catalog.

Videocourses

Academic Outreach delivers undergraduate and graduate courses via online video streaming to students who cannot attend classes on campus. Lectures are recorded as they occur and streamed via the internet the same day. Students who do not have high speed internet access are given the option to receive DVD recordings of the lectures. Students complete the same course requirements as on-campus students and take proctored exams at convenient sites. Videocourses are offered in Engineering and Human Environmental Sciences.

IITS (videoconferencing)

The Intercampus Interactive Telecommunication System (IITS) is a network of conference rooms connected to a statewide videoconferencing network. Approximately 30 sites throughout Alabama are equipped with cameras, monitors, and other devices that allow teachers and students to

interact as if they were in the same room. Presenters use traditional visuals, such as PowerPoint presentations, overheads, and videotape/DVD as well as digital options unique to IITS.

Weekend College

Designed to meet the needs of both part-time and full-time students, Weekend College offers a number of courses in the fall, spring, and summer on Friday evenings and Saturday mornings and afternoons. Scheduling weekend classes is especially convenient for part-time students who would like to pursue academic studies while working.

Gadsden Education and Research Center

Established in 1946, The University of Alabama's Gadsden Education and Research Center is an off-campus program serving residents of northeast Alabama. The center offers graduate coursework for credit, noncredit programs for professional development, and test services as well as serves as a liaison to the University's main campus.

Currently the center offers more than 25 complete graduate degree or certification programs in education, including master's degree, educational specialists degrees, and class A and class AA certification programs. Graduate level courses in library studies are also available in Gadsden. For more information, please call (256) 456-2886 or 1-888-223-4131 or visit our Web site (gadsden.ua.edu).

Evening Program

The Evening Program offers classes at times convenient for working adults. Students unable to continue their education in the traditional format (day classes) may complete degrees in business, geography, and criminal justice through this program. Many other courses from the College of Arts and Sciences, the Culverhouse College of Commerce and Business Administration, the College of Communication and Information Sciences, the College of Human Environmental Sciences, and the School of Social Work are offered after 5 p.m. Monday through Thursday.

Independent Study

Through Independent Study, high school and college students may select their hours of study and work at their own pace to complete courses through written correspondence. These courses provide students the flexibility they need to attain professional, academic, and personal goals.

With certain stipulations, the undergraduate courses may be used to complete a maximum of 25 percent of the work leading to the bachelor's degree. Nine of the last 18 hours required for a degree may be taken by written correspondence, provided that all residence requirements have been met.

Adult Student Services

The Division of Academic Outreach provides a University-wide point of entry for adult students returning to campus or entering the University for the first time. The division provides the services listed below to meet the particular needs of adult students. Through Academic Outreach students can

- initiate the admission process
- receive assistance with applying for financial aid and adult student scholarships
- be referred to appropriate offices at the University for additional assistance with individual needs
- receive assistance with academic advising and schedule building

For more information, call Academic Outreach Student Services at 1-800-467-0227 or (205) 348-0089, or visit our Web site, BamaByDistance.ua.edu.

HONORS AT ALABAMA

HONORS COLLEGE

Dr. R. Shane Sharpe, Interim Dean
Office: 288 Nott Hall

The Honors College at The University of Alabama seeks to enhance the undergraduate experience of each of its students in four key ways: through innovative academic experiences, advanced research opportunities, intercultural interactions, and community service and leadership development. One of the highest priorities of The Honors College is to empower its students to achieve to the peak of their potential and to be recognized for those achievements.

The Honors College serves its students through the University Honors Program, the Computer-Based Honors Program, the International Honors Program, and the University Fellows Experience. The Honors College also works collaboratively with the colleges and departments throughout the University. Honors College students major in all disciplines, adding to the diversity of the Honors experience. Many Honors College students are members of two or more of the University-wide honors programs and are also members of departmental honors programs and of the Blount Undergraduate Initiative in the College of Arts and Sciences.

The Honors College is located in Nott Hall. Our facilities include administrative and faculty offices, a reception lounge, a large student lounge, seminar rooms, a conference room, an Honors College computer lab, a lounge for the University Fellows, and a suite for the Computer-Based Honors Program which contains a separate computer lab. The Honors College's living-learning facilities are an important facet of a strong honors community, for they provide the place where honors students hold social and extracurricular intellectual activities and engage in mutual support. The honors residence halls are coeducational and feature several Faculty-in-Residence in addition to residential assistants. Honors students interested in living in honors housing should contact the Office of Housing and Residential Communities at (205) 348-6676.

Importantly, Honors College students have the highest registration priority. Entering freshmen may sign up for the first summer orientation sessions on a first come, first served basis. After the first semester, all Honors College students are able to register before all other students, each semester. All Honors courses taken by a student are noted on the student's transcript, and completion of Honors programs is noted on both the transcript and diploma. Those honors students completing a thesis will have that noted on their transcripts. Honors College students are noted for their leadership on campus and in the community, for their innovative thinking and the creation of new programs and initiatives, and for their success in winning awards and scholarships at the university, national, and international level.

For more information, contact the Honors College, The University of Alabama, 288 Nott Hall, Box 870169, Tuscaloosa, AL 35487-0169; (205) 348-5500; honors.ua.edu.

UNIVERSITY HONORS PROGRAM

Dr. Jacqueline V. Morgan, Director
Office: 291 Nott Hall

Students seeking an enhanced academic curriculum for their undergraduate work can find it in the University Honors Program (UHP). More than 3,000 students from all schools and colleges in the University participate in the University Honors Program, which gives outstanding students the opportunity to work with their peers and with outstanding faculty members in an enriched academic environment. UHP constitutes neither a major nor a minor, but honors courses fulfill core curriculum and other requirements, allowing students to pursue their own specific degree and study objectives within the honors framework.

Entering freshmen with ACT scores of at least 28 or SAT scores of at least 1250 are admitted upon receipt of their applications for the University Honors Program. National Merit Finalists, National Achievement Finalists, National Hispanic Scholars, UA Presidential Scholars and Alumni Honors Scholars are also admitted upon receipt of their UHP applications. Students not admitted as entering freshmen will be admitted upon receipt of their UHP applications after they have earned an overall GPA of 3.3 at The University of Alabama. Transfer students with grade point averages of 3.3

or courses transferred to the University are admitted upon receipt of their UHP applications.

University Honors Program students are required to earn at least 18 hours of non-pass/fail honors credit, including at least 6 hours in non-pass/fail University Honors (UH) courses at the 100, 200, or 300 level (PHL 202 Honors Introductory Ethics counts as UH hours). Participants must maintain an overall GPA of at least 3.3 for their work at The University of Alabama and must complete the University Honors Program's course requirements at the approved rate to remain members in good standing of the program. Students may undertake an honors thesis for 3 to 6 hours of credit, which will count toward the 18-hour requirement but which will not count toward the requirement of 6 hours in UH courses. UHP students normally take one or two honors courses a semester, not a full schedule of them. The evaluation of work done in honors courses neither penalizes nor unduly rewards students for undertaking the honors curriculum. Most UHP students perform better in honors classes because they find them interesting and challenging.

UH classes top out at 15 students. Departmental honors classes, often enriched editions of regular offerings, have limited enrollment in order to maximize interaction between students and faculty. UH teachers are first-rate and departments regularly assign their best teachers to honors sections, seeking to encourage honors students to major or minor in their disciplines. Honors courses stress the development of critical, analytical, and interpretive skills.

For more information, contact the University Honors Program, The University of Alabama, 291 Nott Hall, Box 870169, Tuscaloosa, AL 35487-0169; (205) 348-5574; uhp.ua.edu.

COMPUTER-BASED HONORS PROGRAM

Dr. R. Shane Sharpe, Director
Office: 288 Nott Hall

The Computer-Based Honors Program (CBHP) is designed to provide exceptional, highly motivated students from any academic field the opportunity to conduct scholarly research with top faculty members.

Students are accepted in this program at the beginning of the freshman year and learn to use computers by taking CBH 101 and CBH 102, 4-hour courses designed to immerse students into the fundamentals of computing and project management. During their second, third, and fourth years at the University, students select research projects and serve as research assistants to faculty project sponsors by applying their computer skills to research projects. They receive 3 hours of credit each semester for this research work and meet once a week to discuss research methods and issues, report on project status and present details of their project to diverse audiences.

A number of full- or partial-tuition fellowships are available to selected students in the program, who are chosen during their senior year in high school. The Computer-Based Honors Program is a suitable minor for students enrolled in all undergraduate degree-granting colleges on campus.

Computer-Based Honors Fellowship. Recipients chosen from students who demonstrate high academic potential as indicated by high-school grades (average 3.9 GPA on a 4.0 scale) and standardized test scores (average 32 ACT, 1350 SAT). Entering freshmen are given priority consideration.

Jerry C. Pruett Memorial Endowed Scholarship. Awarded to an outstanding student in the Computer-Based Honors Program who has completed CBH 101 and CBH 102 or the equivalent and who has not previously been awarded any CBHP scholarship support.

Henry Pettus Randall Jr. Scholarship. Awarded to an outstanding junior in the Computer-Based Honors Program who has conducted exemplary research.

Dr. Charles L. Seebeck Memorial Endowed Scholarship. Awarded to an outstanding junior in the Computer-Based Honors Program.

Students needing more information about or applying for admission into the Computer-Based Honors Program should go to honors.ua.edu or write to The University of Alabama, Director of the Computer-Based Honors Program, Box 870169, Tuscaloosa, AL 35487-0169.

The following courses are open only to students enrolled in the Computer-Based Honors Program: CBH 101 and CBH 102 Freshman Seminar; CBH 201 and CBH 202 Sophomore Seminar; CBH 301 and CBH

302 Junior Seminar; and CBH 451 and CBH 452 Senior Seminar. CBH 101 and CBH 102 carry credit toward fulfilling the requirements of the University Honors Program, and CBH 201 and CBH 202 carry the core curriculum designation **C**.

INTERNATIONAL HONORS PROGRAM

Dr. Fran Oneal, Director
Office: 275 Nott Hall

Established by The University of Alabama in 1997 for undergraduates in all divisions of The University of Alabama, the International Honors Program (IHP) recognizes the importance of international education as preparation for life and work in the 21st century. Students in the IHP are those who seek an international focus for their undergraduate studies and eventually their careers.

Admission to the IHP requires normal undergraduate admission to The University of Alabama and also an application for acceptance to IHP. To be admitted to the IHP, an entering freshman must have an ACT score of at least 28 or an SAT score of at least 1250. National Merit Finalists, National Achievement Finalists, National Hispanic Scholars, UA Presidential Scholars, and Alumni Honors Scholars will also be admitted upon application to the IHP. Students who do not qualify for immediate admission to the program may apply for admission after completing one semester's coursework with a 3.0 GPA.

IHP coursework involves one 3-hour IHP seminar, four courses in a foreign language or languages, and 6 hours of upper-level courses with significant international content, taken in any department. Each IHP student must also spend a minimum of 10 weeks overseas engaged in an overseas study program research, or an internship/cooperative work experience. At least 6 hours' credit must be earned while overseas. Continuing participation in the program requires a minimum 3.0 GPA. Successful completion of the program will be designated on each student's transcript and diploma as "International Honors."

William G. Cox International Travel Funds, McWane Endowed Scholarships, and Yeilding International Travel Funds are available to IHP students.

The following courses are open only to students enrolled in the International Honors Program: IHP 105 and IHP 155, Culture and the Human Experience; IHP 400 Independent Study. IHP 105, 155, and 400 carry honors credit fulfilling the requirements of the University Honors Program. IHP 105 and 155 carry the core curriculum designation SB.

For more information, contact The University of Alabama, International Honors Program, Box 870169, Tuscaloosa, AL 35487-0169; 275 Nott Hall; (205) 348-5554; ihp.ua.edu.

UNIVERSITY FELLOWS EXPERIENCE

Dr. Jacqueline V. Morgan, Director
Office: 291 Nott Hall

Following the classical purpose of education, the production of good citizens, the University Fellows Experience strives to prepare the most able and dedicated students at The University of Alabama for remarkable lives of leadership in and service to their community, state, nation, and world.

Chief components of the University Fellows Experience include mentoring by top University of Alabama faculty members; a team-built atmosphere of support and stimulation; interaction with cutting-edge experts in all fields; engagement in important cultural, social, and scientific enterprises; service to the community; a professional internship in the area of each student's interest; assistance in applying and competing for career positions, prestige scholarships, and graduate and professional schools; and scholarship support.

Acceptance into the UFE is extremely competitive. A student with an ACT score of 32 or an SAT score of 1400 (verbal and quantitative) and a high school GPA of 3.8 who is accepted into UA by the scholarship deadline of December 1 will be invited to apply for the UFE. A student eligible for the University Honors Program (ACT of 28 or SAT of 1250) may be nominated for the University Fellows Experience by a high school counselor or a UA faculty or staff member. The UFE selection committee will consider a candidate's records of academic, extracurricular, service and leadership achievements more heavily than grades and test scores. Throughout their

lives, the University Fellows will make a difference for the good, again and again.

For more information, contact The University of Alabama, University Fellows Experience, Box 870169, Tuscaloosa, AL 35487-0169; 291 Nott Hall; (205) 348-5522; wlbridgers@ua.edu; universityfellows.ua.edu.

OTHER HONORS OPPORTUNITIES

CULVERHOUSE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION BUSINESS HONORS PROGRAM

Business Honors Program students in the Culverhouse College of Commerce and Business Administration participate in weekly one-hour seminars conducted by the Business Honors director and core faculty. The sessions feature meetings with outstanding faculty and business leaders and discussions of contemporary business and economic issues.

Those students who complete the two-year program will earn Honors credits for selected C&BA classes and will graduate with Business Honors recognition.

BHP participation is limited to C&BA students who have completed 61 or more semester hours of class work (junior status) and have at least a 3.5 overall GPA.

DEPARTMENTAL HONORS PROGRAMS

Departmental honors programs are currently available to outstanding students in biological sciences, chemical engineering, chemistry, civil and environmental engineering, English, geological sciences, history, philosophy, physics, and psychology. The programs offer honors courses and other special opportunities for study in these departments.

Biological Sciences

Students majoring in one of the biological sciences are eligible for consideration for the honors program in biological sciences after they have completed at least 16 hours in biological sciences with a grade point average of 3.4 in biological sciences and an average of 3.4 overall. Acceptance into the program requires approval of the Honors Program Committee and acceptance of the student by primary advisors and co-advisors. Requirements of the honors program include (a) 4–8 hours of BSC 390 Honors Thesis Research; (b) an acceptable honors thesis; (c) attendance in BSC 407 Honors Seminar in Biological Sciences; (d) taking the advanced portion of the Graduate Record Examination; and (e) maintenance of a 3.4 grade point average in biological sciences courses and a 3.4 overall average. Additional details are available in the office of the Department of Biological Sciences.

Chemical and Biological Engineering

The University of Alabama Chemical and Biological Engineering Honors Program was created to offer exceptional students a challenging environment and expose them to real-world problems and solutions. Chemical and biological engineering honors students will gain valuable tools to launch diverse careers in chemical process engineering, product design, biomedical research, microelectronics, technical management, law, and medicine.

Students must be enrolled in chemical and biological engineering and apply to the Chemical and Biological Engineering Honors Program. Students must maintain a UA GPA of 3.3 to remain in the program. See the Department of Chemical and Biological Engineering for eligibility requirements and guidelines.

Chemistry

Requirements for the bachelor of science degree with honors in chemistry are (a) completion of course requirements for the BS degree with a major in chemistry; (b) maintenance of a 3.3 grade point average in chemistry courses, with no more than one "C," and of a 3.0 GPA for all coursework; (c) participation in CH 491, CH 492, CH 493, and CH 494 (honors research seminars and research courses); (d) submission of an acceptable senior thesis based on research conducted under supervision of a chemistry department faculty member; and (e) submission of scores on the Graduate Record Examination or other appropriate examination prior

to graduation. Students are invited to apply for admission to the honors program in chemistry on the basis of performance in introductory chemistry courses. Inquire at the Department of Chemistry office for further details.

Civil, Construction, and Environmental Engineering

The Department of Civil, Construction, and Environmental Engineering offers an undergraduate honors program for students who seek to be challenged by both independent and team projects and receive additional distinction with their undergraduate degrees. This individually tailored program culminates with awarding of a Civil Engineering Honors Certificate and recognition at the Honors Day Ceremony in the student's senior year. See the Department of Civil, Construction, and Environmental Engineering for program requirements.

English

Any English major with a superior aptitude for and a special interest in English may apply for admission to the honors program in English. The program includes special honors sections of sophomore literature courses, eligibility for the Junior Honors Seminar in English, and an Honors Thesis. The Junior Honors Seminar (EN 399) gives students an opportunity to experience a course which cuts across conventional divisions of literary period and literary form. The Honors Thesis (EN 499) affords students the opportunity to work with faculty mentors who will guide them in readings, research, and selection of a suitable topic for the thesis.

To be eligible for graduation with honors in English, participants must complete EN 215, three additional hours of honors sophomore literature (EN 216, EN 219, or EN 220), EN 399, and EN 499. Students must also have grade point averages of 3.5 in the English major and 3.3 overall upon successfully completing the program. Further information about the Junior Honors Seminar (EN 399), the Honors Thesis (EN 499), and the specific guidelines for the program can be found on the Department of English Web site. Students should also contact the coordinators of the Departmental English Honors Program.

Geological Sciences

Requirements for the bachelor of science or bachelor of science in geology degree with honors are (a) completion of the course requirements for the BS or BS in geology degree; (b) maintenance of a 3.3 grade point average in geology courses and a 3.0 grade point average for all coursework; (c) grade of "Pass" in GEO 435 and GEO 436 (honors seminars); (d) 6 hours of GEO 499 Honors Research (graded pass/fail) and presentation of the results in the honors seminar; and (e) submission of an acceptable honors thesis based on research conducted under the supervision of a geological sciences department faculty member. Geology majors are invited to apply for admission to the honors program in geology after completion of 13 hours of geology coursework.

History

The history honors program is open to history majors who have a 3.0 overall GPA, a 3.3 GPA in history, and at least 12 hours of history courses completed. The program requires 9 hours of honors work, including HY 399 History Honors Colloquium (usually taken in the junior year) and a 6-hour thesis (HY 498 and HY 499) completed (usually in the senior year) under the direction of a tenured or tenure-track member of the department. Graduating with honors in history requires a 3.0 overall GPA, a 3.3 GPA in history, and satisfactory completion of a thesis judged to merit an honors designation.

Philosophy

The honors program in philosophy is designed for the exceptional student, regardless of whether the student intends to do graduate work in philosophy. The program offers the opportunity to pursue a philosophical topic further than the seminar format permits. It also provides recognition for having done a greater proportion of one's classes at the advanced level and for having sustained outstanding achievement in all cases.

Those who graduate with honors in philosophy must meet the following requirements: (1) complete 36 hours in philosophy; (2) complete at least 18 of those hours at the 300- or 400-level; (3) achieve a grade point average of

at least 3.5 in all courses in philosophy and at least 3.3 overall; and (4) write and be examined on a substantial philosophical essay under the direction of a faculty member in the department.

Students wishing to enroll in the program may request consideration for admission from the undergraduate advisor or the department chairman, or they may be invited to enroll.

Physics

Requirements for the bachelor of science degree with honors in physics are 1) completion of the course requirements for the BS degree with a major in physics; 2) maintenance of a 3.3 grade point average in physics courses and a 3.0 GPA for all coursework; 3) submission of an acceptable honors thesis based on research conducted under the supervision of a faculty member in physics or astronomy; and 4) participation in the 1-hour senior-level honors physics seminar, PH 490. Students are invited to apply for admission to the honors program in physics on the basis of performance in introductory courses. Inquire at the Department of Physics and Astronomy office for further information.

Psychology

The psychology department honors program is designed to afford qualified majors the opportunity to participate in activities preparatory for graduate training in psychology. The two-year program is research-oriented and involves interaction with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent upon submission of an independently conducted research project equivalent in quality to a master's thesis.

Psychology majors who are in the second semester of their sophomore year with 9 hours of completed coursework in psychology (including PY 101, PY 211, and a 300-level course) may apply for admission to the psychology department honors program. A completed application and interview by the Departmental Honors Committee are required before acceptance. To be accepted a student must have a 3.3 grade point average in psychology coursework and a 3.0 average overall; however, meeting these minimum requirements does not guarantee admission.

SPECIAL PROGRAMS

For information about the Capstone Summer Honors Program, early admission programs, or concurrent enrollment, see the section "Admissions."

SPECIAL ACADEMIC PROGRAMS

The following programs offer undergraduate students opportunities for new academic experiences, hands-on or on-the-job training, and cultural exchange. All University of Alabama students are encouraged to participate in these programs as appropriate to their degree programs and personal and professional goals. Such programs offer unique ways for UA students to enrich their college experiences, build their résumés, and explore career choices.

CAPSTONE INTERNATIONAL

Dr. B. Jane Stanfield
Associate Provost for International Education and Global Outreach
Office: 135 B.B. Comer Hall
Web site: international.ua.edu

The University of Alabama provides a wide variety of international education programs and services at the Capstone International Center, housed on the first floor of B.B. Comer Hall. Known simply as Capstone International, the Capstone International Center takes its name from its historical pre-eminence in the state as a provider of international education. A combination of integrated units, the Capstone International Center has multiple complementary yet diverse functions ranging from intensive English language instruction in the English Language Institute (ELI) to U.S. immigration compliance, Fulbright programs, and overseas study. Capstone International is a multipurpose center designed to inform, assist, and educate both international and domestic students, faculty, and staff members as well as members of the local civic, education, and corporate communities. Capstone International annually welcomes almost 1,000 internationals to campus and makes possible the participation of UA faculty, students, and staff in a multitude of internationally focused degree, research, and outreach programs.

Outreach is an important function within Capstone International as evidenced by its quarterly Capstone International newsletter, the German Supplementary School (for school-age children from Germany), the Japan Culture and Information Center (a resource for both the local and academic communities), and the English Language Institute (on-site corporate programs and tailored courses for usage by children and spouses of the employees). A wide variety of international student activities are coordinated in conjunction with the Rotary International Club of Tuscaloosa, Tuscaloosa's International Friends (TIF), and the Children's Hands-on Museum (CHOM).

The University is a member of national organizations providing congressional support, professional training, and annual conferences to promote international education at member universities, namely NAFSA: Association for International Educators, the Institute for International Education (IIE), the Association for International Education Administrators (AIEA), the European Association for International Education (EAIE), and the Council for International Education Exchange (CIEE).

Capstone International has four functional focal points known as Academic Programs, Community and Corporate Outreach, International Services, and English Language Institute. Collectively they provide courses and activities available to the constituents of The University of Alabama community.

Academic Programs

Fulbright Programs
Global Studies Certificate Program
International Academic Exchange Programs
Short-term Academic Group Overseas Study
Affiliate Programs
International University Programs

Community and Corporate Outreach

German Supplementary School
Sakura Festival
Japan Program
Japan Culture and Information Center

International Services

International Scholar Events
International Student and Scholar Services

International Student Programming
Multicultural Guidance and Counseling
U.S. Immigration Compliance
Visa Advising

English Language Institute

Internal Program
External Group Programs
International Teaching Assistant Program (ITAP)
Academic Support Program

ACADEMIC PROGRAMS

Fulbright programs. Capstone International encourages and facilitates active participation in all Fulbright programs. Since the founding of the Fulbright programs in 1948, approximately 125 UA students, faculty, and professional staff members have been selected to receive the prestigious Fulbright award. Their appointments have ranged from Austria to Zimbabwe (A to Z). More information is available from the CIC, 135 B.B. Comer Hall, (205) 348-5312, or fax (205) 348-5298.

Global Studies Certificate (GSC) Program. The University of Alabama Global Studies Certificate Program is designed to introduce the undergraduate student to the cultural, economic, physical, and political aspects of being a world citizen in the 21st century. The program emphasizes the contemporary rather than the historical. Nine hours of the program are specified as GSC core, usually lower division, and must be taken prior to the six Emphasis Area hours, usually upper division.

The Introduction to Global Studies (CIP 200) course must be taken first in the sequence of GSC Core and Emphasis Area courses, but the remaining GSC Core courses and the following Emphasis Area courses may be taken in any order. The introductory course will set the philosophy for the student's approach to the entire Global Studies Certificate Curriculum, both core and upper division, Emphasis Area courses.

Students must successfully complete 15 hours of coursework as specified below. Some courses may have prerequisites. Candidates for the certificate must complete an application form before the certificate can be awarded. Application forms are available in the Capstone International Center, Room 135 B.B. Comer Hall, and must be completed and submitted no later than the semester prior to the semester of graduation.

Total Certificate Program Hours: 15

GSC Core Courses—9 hours

Mandatory introductory course:

CIP 200 Introduction to Global Studies

Two of four existing courses:

ANT 102 Introduction to Cultural Anthropology (SB)

GY 105 World Regional Geography (SB)

GY 110 Principles of Human Geography (SB)

SOC 101 Introduction to Sociology (SB)

GSC Emphasis Area Courses—6 hours

Approximately 53 available courses plus a variety of 300-level language courses and numerous summer, Interim, and exchange overseas courses.

AMS 151 Introduction to American Cultures: World, Nation, Regions (HU)

AMS 231 Contemporary America (HU)

ANT 412 *Peoples of Europe (W)

ANT 413 *Peoples of Latin America (W)

ANT 414 *Peoples of Africa

ANT 415 *Peoples of East Asia

ANT 416 *Peoples of Southeast Asia

ANT 417 *Peoples of South Asia

ANT 455 Africans in the Americas

EC 430 International Trade/Economics (W)

EC/FI 431 International Finance

EC 442 Economic Development of Latin America

EN 207 World Literature I (HU or L)

EN 208 World Literature II (HU or L)

EN 311 Literature: Special Topics

EN 320 Introduction to Linguistics
 EN 429 Directed Studies (W)
 FI/EC 431 International Finance
 GY 344 Geography of Africa
 GY 377 Cultural Geography
 IBA 350 Introduction to World Business
 IBA 351 Multinational Business Communication
 MKT 455 International Marketing
 MC 411 International Mass Communication
 MUS 250 Music in World Cultures (FA or HU)
 NEW 472 Social Science II: Social Change
 NEW 473 Social Science II: Globalization
 NEW 474 Social Science II: Survival
 NUR (see UA Overseas Study Programs)
 PSC 204 International Relations
 PSC 332 Latin American Political Systems
 PSC 333 Soviet and Post-Soviet Politics
 PSC 334 Governments and Politics of Western Europe
 PSC 342 Foreign Policies of the Soviet Union and its Successor States
 PSC 413 American Foreign Policy
 PSC 434 International Political Economy
 PSC 442 International Conflict
 PSC 444 International Organizations (W)
 PSC 445 Nationalism and Ethnic Conflict (W)
 REL 100 Introduction to Religious Studies (HU)
 REL 208 Hinduism
 REL 210 Buddhism
 REL 213 Sociology of Religion
 REL 220 Survey of Asian Religions (HU)
 REL 224 Judaism (HU)
 REL 238 Philosophies of Judaism
 TCF 340 International Cinema

*ANT 412, ANT 413, ANT 414, ANT 415, ANT 416, and ANT 417 are offered according to demand.

Independent Study (All Colleges)

Special Topics/Field Education/Directed Readings (maximum 3 hours) with permission of department/professor and GSC director

Language Studies (FL, HU—for some)

All MLC and critical languages at the 300 to 400 level are eligible (maximum 6 hours)

UA Overseas Study (Various Colleges)

Summer/Interim: (maximum 6 hours)

Australia
 Austria
 Belgium
 China
 Dublin Internship
 France
 Germany
 Ghana
 Greece
 India
 Italy
 Japan
 London Internship
 Mexico
 New Zealand
 Oxford
 Panama
 Turkey
 Spain
 Sweden

Exchanges (maximum 6 hours):

Aarhus (Denmark)
 Aberystwyth (Wales)
 Ajou (South Korea)
 Augsburg (Germany)
 Berlin (Germany)
 Birmingham (England)
 Bordeaux (France)

Chiba (Japan)
 Feng Chia (Republic of China/Taiwan)
 Groningen (The Netherlands)
 Hiroshima (Japan)
 Hull (England)
 Kansai Gaidai (Japan)
 Klagenfurt (Austria)
 Liege (Belgium)
 Mannheim (German)
 Monterrey Tech (Mexico)
 Paris (France)
 Poitiers (France)
 Pusan (South Korea)
 Queensland University of Technology (Australia)
 Ritsumeikan (Japan)
 Tours (France)
 Yonsei (South Korea)

International academic exchange programs. The University of Alabama offers a number of international exchange programs that allow students to act as visiting scholars at overseas universities. Each program gives students opportunities to learn in a foreign country where they obtain first hand knowledge of another people, language, and culture in addition to gaining course credits. In some cases, a working knowledge of the language of the host country is a prerequisite. In others, the language can be studied for the first time in the host country; sometimes, no language requirement is necessary (e.g., England and Australia). Students pay University of Alabama tuition based on residency and are assisted in arranging transfer of credits through appropriate departments and divisions prior to departure.

International exchange programs are available to UA students at the following partner universities for either one or two semesters and, in some cases, summer study:

Australia: Queensland University of Technology (Brisbane)
 Austria: University of Klagenfurt
 Belgium: Université de Liège
 Denmark: Aarhus School of Business
 England: University of Hull; University of Birmingham
 France: Université François–Rabelais (Tours); Bordeaux Business School; Paris-EST Marne la Vallée (Paris); Université de Poitiers (Poitiers)
 Germany: University of Augsburg; University of Berlin; University of Mannheim;
 Italy: University of the Sacred Heart (Milan)
 Japan: Chiba University; Ritsumeikan University (Kyoto); Hiroshima University; Kansai Gaidai University (Hirakata-City)
 Korea: Pusan National University; Yonsei University (Seoul), Ajou University (Suwon); Yeungnam University (Daegu)
 The Netherlands: Hanzehogeschool-Gröningen
 Taiwan: Feng Chia University (Taichung)
 Wales: University of Wales (Aberystwyth)

Short-term academic group overseas study. In addition to its longer-term international exchange programs, The University of Alabama conducts many overseas study programs lasting from two to six weeks, most often during the summer and Interim sessions. Scholarships and financial aid are available to students participating in these programs. Programs and fields of study in recent years include the following:

Alabama in Australia: business
 Alabama at Oxford: English, history, honors
 Alabama in Belgium: political science
 Alabama in China: business studies, Chinese language and culture, communications
 Alabama in France: French, business studies
 Alabama in Austria: German language and culture
 Alabama in Ghana: geography, African-American studies
 Alabama in Greece: modern Greek studies, religious studies
 Alabama in Italy: art, Italian, finance, business studies, art history, interior design
 Alabama in Japan: nursing, Japanese language & culture
 Alabama in Mexico: social work
 Alabama in New Zealand: English

Alabama in Panama: engineering without borders
Alabama in Spain: Spanish, business studies, engineering
Alabama in Sweden: political science
Alabama in Turkey: business
Dublin Internship Program: business, communications, engineering
London Internship program: business, communications, engineering

Affiliate Programs. The University of Alabama offers programs through third party program providers every year and students continually have positive feedback on their experiences with these providers. Students participating in these programs can use their UA scholarships and financial aid for funding. Also, students do not pay UA tuition but pay the program fee charged by the program provider and additional expenses including but not limited to travel, personal, meals, visa, housing expenses, etc. A list of UA's Affiliate Programs can be found online at studyabroad.ua.edu.

International University Programs. Students at the University of Alabama have the opportunity to spend a summer, semester, or academic year at one of the International Universities. Participants in these programs can use their UA scholarships and financial aid for funding. Also, students do not pay UA tuition but pay the cost of attending the International University. A list of International University programs can be found online at studyabroad.ua.edu.

Capstone International now provides upgraded International Student Identity Cards (ISIC), the ISIC Platinum. Issued by STA Travel, the ISIC Platinum provides international insurance coverage (\$1 million in accident and sickness coverage for travel worldwide and a toll-free 24-hour help line for medical, mental, legal, and financial emergencies abroad) in addition to many other discount rates for transportation, educational, and cultural programs and services.

Additional information about any international study program may be obtained from studyabroad.ua.edu, 135 B.B. Comer Hall or by writing The University of Alabama, Capstone International, Box 870254, Tuscaloosa, AL 35487-0254; (205) 348-5256. If The University of Alabama is unable to meet the overseas study needs of a student, Capstone International provides information about additional international education opportunities available through study abroad at other institutions and organizations.

COMMUNITY AND CORPORATE OUTREACH

German Supplementary School. Established by The University of Alabama in 1995 in cooperation with Mercedes-Benz U.S. International Inc., the German Supplementary School provides supplementary education in German to children ages six to 16 who will return to a German-speaking educational system after living in Alabama for several years. In addition to providing education to German-speaking children, the GSS provides University of Alabama students who have an interest and proficiency in German language and culture the opportunity to work with GSS in a variety of ways. More information is available from the CIC, 135 B.B. Comer Hall, (205) 348-5312, or fax (205) 348-5298.

Sakura Festival. Capstone International organizes the annual spring Sakura Festival and Haiku contest for the state of Alabama.

Japan Program. Reciprocal student exchange programs with Kansai Gaidai University in Osaka, Ritsumeikan University, Hiroshima University, and Chiba University enable qualified undergraduate students to study Japanese in Japan while undertaking Asian studies, humanities, social science, and science courses taught in English. Generous AIE-J scholarships providing round-trip transportation and a monthly stipend are available on a competitive basis to UA students. Gilman and Freeman-ASIA scholarships for students on financial aid is also available. Examples of courses offered at partner institutions include Japanese-Style Management, Japanese Economic Development, Sociology of Everyday Life in Japan, Survey of Modern Japanese History, Japanese Culture and Education, Seminar in Geography, Agriculture and Agricultural Sciences in Japan, and Introduction to Deep-Sea Biology. For students who have already earned undergraduate degrees, Chiba University offers prestigious Monbusho (Ministry of Education) research scholarships for 18 months of study. The Monbusho scholarship provides round-trip transportation and monthly stipends to cover living costs.

Additional information about the Japan Program may be obtained from Capstone International, 135 B.B. Comer Hall, (205) 348-5312.

Japan Culture and Information Center. Established by The University of Alabama as part of the Japan Program in 1990, the Japan Culture and Information Center (JCIC) serves as a meeting place and clearinghouse for information about Japan and its culture.

Additional information about programs at the Japan Culture and Information Center may be obtained from Capstone International, 135 B.B. Comer Hall, (205) 348-5312 or fax (205) 348-5298.

INTERNATIONAL SERVICES

International Services, located within the Capstone International Center of The University of Alabama, provides specialized services for international students, professors, research scholars, visitors, and their families. International Services conducts intensive orientation programs and provides vital information regarding U.S. Immigration compliance as well as multicultural guidance and counseling. These are ongoing services that monitor individual progress according to Department of Homeland Security regulations.

Professional staff members advise and assist the International Student Association, which represents all international students and the many nationality organizations on campus.

International Services may be contacted by telephone at (205) 348-5402, by fax at (205) 348-5406, and by mail at The University of Alabama, International Services, Box 870254, Tuscaloosa, AL 35487-0254, USA. Offices are located in 105 B.B. Comer Hall.

ENGLISH LANGUAGE INSTITUTE (ELI)

For the non-native speaker of English, the University of Alabama English Language Institute (ELI), a part of Capstone International, offers two types of year-round English-language programs: The Intensive English Program is designed for individuals who are seeking intensive English study, while External Programs are designed for groups who desire highly specialized curricula. In addition, the ELI has two programs for matriculated students at The University of Alabama: the International Teaching Assistant Program, which trains and evaluates international graduate teaching assistants, and the Academic Support Program, which provides opportunities for undergraduate and graduate students who may want or need additional English-language instruction.

Intensive English Program

The ELI Intensive English Program (IEP) is designed for individuals who need to learn English as a second language. The program focuses on preparing students for academic success, both in English-language proficiency and cultural awareness, for undergraduate and graduate study at The University of Alabama.

Six levels of study, from beginning to advanced, are available. Each level consists of 20 hours of core classes per week; additional optional classes are also available for students who wish to take them. Each level of study lasts approximately eight weeks and is available six times per year with sessions beginning in August, October, January, March, May, and June. Students may begin their English study at the beginning of any one of these sessions.

An ELI student wishing to enter an undergraduate degree program at The University of Alabama may meet UA's English proficiency requirements either by obtaining the required TOEFL (Test of English as a Foreign Language) score or by completing Level 6 with a GPA of 3.0 in Levels 4, 5, and 6. Undergraduates who meet certain conditions (minimum TOEFL score and GPA) become eligible to enroll in undergraduate courses while completing their ELI program of study. The number of UA courses that an eligible student may take is determined by the ELI. Students pursuing graduate study must complete Levels 4, 5, and 6 with a GPA of 3.5. In certain cases, the Graduate School, the ELI, and the student's academic department may together grant permission for a student who has completed Level 4 or higher with a minimum GPA of 3.5 to enroll in one graduate course per semester while completing the ELI program of study. The specific course must be approved by the instructor and department prior to enrollment.

Students who apply for admission to UA and meet the academic and financial qualifications to enter the University but do not have TOEFL scores available or do not meet the TOEFL score requirement may be admitted conditionally or provisionally. Such students will not be eligible to begin an academic program and will be required to register for full-time study in ELI until they meet the TOEFL requirement or satisfactorily complete the ELI program as outlined above.

ELI Intensive English Program Courses

Structure: Levels 1 to 6. Structure courses provide students with the basic grammatical structures they will need to communicate effectively in English in four language skill areas: listening, speaking, reading, and writing.

Each structure course emphasizes communication—both comprehension (listening and reading) and production (speaking and writing). Structure courses meet 5 hours per week.

Speaking/Listening: Levels 1 to 6. ELI courses in Speaking/Listening English provide students with the opportunity to improve their listening and speaking skills and to gain confidence in using English to communicate orally. Students practice appropriate conversation management skills, receive instruction on problem areas of pronunciation, and learn useful vocabulary. These activities are carried on through a variety of classroom exercises that focus on the everyday situations students are likely to encounter while adjusting to life in the United States. Speaking/Listening courses meet 6 hours per week.

Reading/Writing: Levels 1 to 6. The Reading/Writing curriculum of the English Language Institute is designed to provide students with both the skills and the practice that are necessary for them to develop satisfactory reading and writing skills in English and eventually to function successfully in U.S. university courses where extensive academic reading and essay writing are required. Skill instruction and accessible, varied, and challenging tasks invite students to invest their time and energy in constructing meaning from written texts, responding to those texts, and producing writings of their own. Students will acquire new vocabulary and develop effective reading strategies for different types of tests. Working on closely related reading and writing assignments, students will develop proficiency in understanding what they read and in thinking, drafting, and revising their own ideas by working through the writing process with input from their classmates and teachers. Reading/Writing courses meet 9 hours per week.

Oral Communication. Oral Communication (OC) is designed to help students improve their skills and proficiency in both speaking and understanding oral English. Students' oral proficiency in English will improve as a result of a variety of classroom tasks and activities. In addition, instructional activities will occasionally take place outside of the classroom in order to take advantage of opportunities in community settings. Oral Communication is divided into two separate eight-week sessions—OC I and OC II—each of which meets for 9 hours per week.

Optional Classes. The ELI offers several choices of optional courses. Some examples of optional courses are TOEFL Preparation, Pronunciation, American Culture, Current Events, Business English, English Through Current Events, and English Through Music. Optional classes typically meet 2-3 hours per week.

Culturally Speaking. Through the Culturally Speaking class, ELI students meet regularly with American students to converse in English in relaxed surroundings. Culturally Speaking provides a comfortable way for ELI students to form friendships with American students and to practice their English.

Culture and Language Exchange Program. The Culture and Language Exchange Program matches the ELI students with UA students who are studying the ELI student's native language. Once matched, these pairs or groups of students then meet as often as they like for conversation practice in both English and in the particular foreign language.

ELI External Programs

ELI External Programs consist of a variety of programs designed for groups of participants with mutual goals and concerns who desire highly specialized, intensive curricula. Such programs are typically designed for international English teachers, students whose international universities have approved given curricula for credit, international graduate students preparing to enter universities throughout the United States, and business professionals who wish to improve their overall effectiveness in English or to concentrate on specific skills such as written communication.

An organization wishing to participate in such a program should clearly define the goals of its group and keep in mind that program enrollments typically require a minimum of 10 participants. Financial sponsorship for the above programs may come from ministries of education, embassies, corporations, private philanthropic organizations, U.S. or other government sponsoring agencies, or the individual participants themselves. Programs may be offered at any time of the year and typically range in length from two to six weeks.

A second type of external program is the corporate short-term program for individuals from a single corporation who participate in a curriculum composed partially of courses in the ELI Intensive English Program and partially of specialized courses designed specifically for the participants. These programs are offered as needed throughout the year.

A third type of external program may be offered on-site at the corporation or university. As with all external programs, dates can be customized and curricula can be specially designed for the particular group.

ELI External Program Curricula

International University Undergraduate Program. This program typically offers one or two levels of instruction for the group and consists of four hours of instruction per day, five days per week. Courses offered can include Spoken English, Pronunciation, Reading/Vocabulary, Writing, Structure, Computer Skills, American Culture, and English through Music or Film.

English Teacher Training Program. This program is designed for non-native speakers who are teachers of English. The curriculum typically consists of courses in conversational management, debate, listening and speaking, pronunciation, and public speaking, as well as a teaching workshop and series of methodology lectures. This curriculum can be adjusted to meet the needs of a particular group of English teachers. The program aims to further refine the teacher's own usage and to address and evaluate current theories of methodology in light of the country's unique challenges in teaching English. These courses meet four to six hours daily.

Academic Support Program

The ELI Academic Support Program provides opportunities for UA undergraduate and graduate students who may want or need additional English-language instruction. At the undergraduate level, newly admitted international students, after taking the UA English Proficiency and Placement Exam (EPPE) prior to beginning their first semester at UA, may be asked to take one or two ELI courses in spoken and/or written English on a part-time basis. These students may pursue their academic studies while fulfilling their EPPE requirements. Students must pass the designated ELI Speaking/Listening or Academic Writing course(s) before enrolling in the University's required English courses for credit. In addition, the UA Language Resource Center is available for individualized language assistance.

To obtain more information about any of the above ELI programs, to request a brochure and application for the Intensive English Program, or to discuss the possibility of an external program for your group, contact the University of Alabama English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250; (205) 348-7413; fax (205) 348-9266; e-mail info@eli.ua.edu. Also please visit our Web site at eli.ua.edu.

COOPERATIVE EDUCATION PROGRAM

Mr. Roy T. Gregg, Director

Office: 317 Houser Hall

In order to promote, encourage, and improve the education of students and to provide maximum service to industry, business, and government agencies, The University of Alabama offers qualified students opportunities to participate in the Cooperative Education Program (or co-op). Cooperative education is an academic program in which students alternate periods of full-time study with periods of full-time employment. This program offers work related to the academic major or career interests of each student, greatly enhancing the student's employment prospects after graduation. It also gives the student a better understanding of the value of human relations, encourages the student to excel academically, and assists the student financially.

A student planning to enter the Cooperative Education Program should give particular attention to the entrance requirements of the University division he or she plans to enter. Generally, courses scheduled for the first year must be completed before a student may begin the first work period.

The University assumes primary responsibility for placing qualified students in available positions for the purpose of providing the best education possible. It is impossible, however, for the University to guarantee employment for all students in the Cooperative Education Program. Co-op students are currently working with a diverse group of employers at sites across the United States. Applicants are often matched with their co-op employers during Co-op Interview Days, held each October and February.

Further information about the program may be obtained by contacting The University of Alabama, Director of the Cooperative Education Program, Box 870200, Tuscaloosa, AL 35487-0200; (205) 348-6422; coop.eng.ua.edu.

CENTER FOR ETHICS & SOCIAL RESPONSIBILITY

Mr. Stephen F. Black, Director

Office: Temple Tutwiler Hall

Believing The University of Alabama has a critical role to play in preparing students to serve as effective, engaged and ethical citizens, the Center for Ethics & Social Responsibility (CESR) seeks to assist students in developing a distinctive definition of moral and civic maturity, making the values and skills of citizenship a hallmark of a University of Alabama education.

The University of Alabama's strong commitment to civic engagement and UA's history of community-university partnerships serve as a foundation for the Center. Faculty and students in a wide range of departments at UA have earned distinction for their scholarly contributions to the study of ethics and civic engagement. CESR builds upon these substantial resources, with the larger goal of linking curriculum and the campus culture by establishing multiple opportunities through which students can engage in meaningful service for academic credit while giving thoughtful consideration to their ethical obligations toward fellow citizens.

In particular, CESR staff assists faculty members in developing service-learning courses that engage community organizations in partnerships designed to both enhance academic learning and apply scholarly knowledge to salient community issues. Service experiences are integrated into students' academic curricula, providing structured time for students to think, talk and write about what they did and saw during the activities.

In seeking to better connect social responsibility and ethical development to the academic mission of the University, the work of CESR also entails the development of academic programs such as Moral Forum (a university-wide debate competition that is an integral part of the University Honors Program) and a minor in civic engagement and leadership (co-sponsored by New College, the Department of Philosophy, the ROTC program and CESR) as well as courses such as Documenting Justice (a year-long justice-based documentary filmmaking class) and SaveFirst: Poverty in America (a service-learning course that combines academic discussions on perceptions of poverty with volunteer tax preparation services for low-income families). CESR also is concerned with developing and supporting non-curricular activities that incorporate ethical and social discourse into campus life.

The Center for Ethics & Social Responsibility began in fall 2005 as a result of a gift from Mignon C. Smith. Concerned about what she perceived to be an increasing lack of ethics in business and public affairs, Ms. Smith sought to establish a university-based ethics program that would support the study of ethics and develop projects to nurture social responsibility and reflective, thoughtful citizenship. Under the leadership of UA President Robert E. Witt, Provost Judy Bonner, and with the help of an interdisciplinary group of UA faculty, this vision became the Center for Ethics & Social Responsibility.

To learn more about CESR, contact cesr@ua.edu or (205) 348-6490. Visit CESR online at cesr.ua.edu or in person at Temple Tutwiler Hall on Colonial Drive, next to Reese Phifer Hall.

NATIONAL STUDENT EXCHANGE

The National Student Exchange (NSE) offers opportunities for students to broaden their educational experience through exchange programs with nearly 200 universities across the United States, Canada, Guam, Puerto Rico, and the U.S. Virgin Islands.

Through NSE, students may exchange to another member institution for a semester or academic year and pay that university's in-state tuition. Students coordinate with their college registrar on course selection and credit transferability. Students should discuss their choice of courses with their advisor. Students must have at least sophomore standing and a 2.5 GPA at the time of the exchange. Students receiving federally funded financial aid at UA can expect to receive similar aid from the host institution. With nearly 200 participating institutions and with a 97 percent placement rate, students can generally find a location to meet both academic and personal objectives; however, a student's first choice of a host school is not guaranteed.

For further information you may go to the University of Alabama NSE website at nse.ua.edu. You may also call our NSE Coordinator at (205) 348-6114 or come by the Office of Student Involvement and Leadership at 355 Ferguson Center. The deadline for applications for each academic year (beginning with the fall semester) is February 1.

THE UNIVERSITY SCHOLARS PROGRAM

The University Scholars Program is intended for gifted and highly motivated candidates for BA and BS degrees at The University of Alabama whose objectives include degrees at the master's or doctoral level. In participating University Scholars departments, with a closely integrated undergraduate and graduate program, qualified students begin graduate study in their senior year; such a program may lead to simultaneous completion of requirements for both master's and bachelor's degrees, each within its specified framework.

Students in the University Scholars Program are classified as undergraduates until they complete requirements for their undergraduate degrees and therefore may not hold graduate assistantships until their classifications are changed to graduate status. At that time, University Scholars will also become eligible for graduate fellowships and scholarships.

Any department that offers a graduate program may, with the approval of the dean of the Graduate School, participate in the University Scholars Program. The following programs currently are approved to participate in the University Scholars Program:

- Aerospace Engineering and Mechanics
- Applied Statistics
- Finance
- Biological Sciences
- Chemical Engineering
- Chemistry
- Civil and Environmental Engineering
- Communication Studies
- Computer Science
- Consumer Sciences
- Economics (College of Commerce and Business Administration)
- Economics (College of Arts and Sciences)
- English
- Electrical and Computer Engineering
- French
- Geography
- German
- Health Studies (Sports Medicine Concentration)
- Human Nutrition and Hospitality Management (Food and Nutrition Concentration)
- Mathematics
- Mechanical Engineering
- Metallurgical and Materials Engineering
- Operations Management
- Physics and Astronomy

The following are minimum requirements; divisions or departments may set higher standards:

Phase I: Admission to Phase I is by invitation of the department and the dean of the Graduate School. Admission is chiefly determined by the faculty's estimate of a student's talents, motivation and potential for graduate study. Students may also apply for admission to Phase I through their major department during the second semester of the sophomore year. Contingent upon completion of 61 semester hours of study and with a grade point average in all courses taken of not less than 3.3 (as computed without the plus/minus system), students are admitted to Phase I at the beginning of their junior year on recommendation of the departments to which they have applied. During the junior year, students will take between four and six courses in their major field, as advised by their departments, to prepare them for the work of Phase II. Students seeking admission to Phase I will be informed by their departments if their admission requirements differ from those specified here.

Phase II: Admission to graduate study is also by invitation and is facilitated by, but not dependent upon, participation in Phase I. On completion of no fewer than 91 hours (ordinarily at the end of the junior year), students may apply for and be accepted for admission to the Graduate School. They must have grade point averages of not less than 3.3 (as computed without the plus/minus system) in all courses. Transfer students are subject to the published residence regulations and must have completed the last 30 hours in residence. Admission to the Graduate School will be granted if the student has (a) met all the criteria above as well as other minimum requirements for graduate admission (see

www.graduate.ua.edu), (b) completed three-fourths of the hours required for the major and the minor, (c) met all requirements for the core curriculum, and (d) been recommended by the department to which he or she is seeking admission. (In special circumstances, departments may elect to invite an application and recommend acceptance of an applicant with a GPA of 3.0 or higher.)

Upon admission to the Graduate School, the student will begin a program of study leading to the master's or doctoral degree as approved by his or her department and by the dean of the Graduate School. **The program of study for prospective University Scholars must be submitted to the Graduate School prior to the student's enrollment in graduate classes.**

The bachelor's degree normally will be awarded at the commencement immediately following satisfactory completion of the first year of graduate study and attainment of a total of 128 semester hours of credit or the minimum required by the college. Those courses taken in the senior year/first year of graduate study may count toward both the bachelor's and graduate degrees. No more than 15 hours may be dual-counted toward both the bachelor's and graduate degrees. Interested students should check with their departments for specific coursework requirements. Participants in the University Scholars Program are exempt from the degree limit of 36 hours in a single department. The master's or doctoral degree will be awarded upon satisfactory completion of the requirements for these degrees. In some cases, the bachelor's and master's degrees may be awarded simultaneously; the completion of the master's degree, however, may require an additional time period.

MCNAIR SCHOLARS PROGRAM

The McNair Scholars Program, a TRIO program funded primarily through a grant from the U.S. Department of Education, prepares eligible students for successful entry into and completion of doctoral degree programs. Participants benefit from the following program components:

- Funded research internship resulting in research experience, mentoring by a faculty researcher, a written research report, publication in the University of Alabama McNair Journal, and research presentation opportunities
- Seminars (NEW 223 and UH 305) designed to provide knowledge and skills in a variety of areas to strengthen personal, academic, and research competencies vital to success in graduate programs
- Individualized support services in the areas of personal, financial, academic, and career advising
- Assistance and guidance in developing an effective graduate school admissions plan and materials
- Networking opportunities with faculty and student researchers on the UA campus and across the nation
- Participation in selected travel and cultural events
- Listing in a national directory made available to graduate schools nationally, for their use in recruiting Scholars as prospective graduate students
- Access post-baccalaureate to selected opportunities and benefits designated for McNair Scholar alumni only

An undergraduate student who is a U.S. citizen or permanent resident and meets the following criteria is eligible to submit an application: (a) has completed at least 60 hours of coursework, (b) has at least a 3.0 cumulative GPA, (c) and is either a first-generation college student who meets income requirements established by the U.S. Department of Education or a member of a group that is underrepresented in graduate education. Applications are typically submitted during fall semester, by the first Friday in November. A panel composed of University faculty, staff, and McNair Scholars/alumni reviews applications, interviews finalists, and selects 12 new McNair Scholars to begin the program each January. A total of 25 students, in overlapping cohorts, are served each year.

For more information, contact the McNair Scholars Program, The University of Alabama, 303 Lloyd Hall, Box 870337, Tuscaloosa, AL 35487-0337; (205) 348-0572; fax (205) 348-0447; also visit the program's Web site at <http://graduate.ua.edu/mcnair/>.

COLLEGE OF ARTS AND SCIENCES

MISSION

The College of Arts and Sciences is central to the instructional, research and outreach missions of The University of Alabama.

The College provides the fundamental liberal arts foundation necessary to the education of all University of Alabama students. It is dedicated to educating individuals based on the liberal arts philosophy of making each student a lifelong learner.

The College is committed to leadership in pedagogical innovation and the use of technology to further student learning. It values the traditional residential campus and is dedicated to providing an array of stimulating learning communities where students may grow personally and intellectually. The discovery and sharing of knowledge is at the heart of our enterprise. The College is committed to leadership in the creation, dissemination, and application of knowledge and the preparation of future scholars. It accomplishes this by maintaining and enhancing both its nationally competitive faculty and its nationally ranked graduate and undergraduate programs.

Learning and quality of life are interrelated. As the state's largest liberal arts college, the College of Arts and Sciences is central to the cultural, intellectual, and social life on campus and in the community, state and region. It contributes fundamentally to the economic development of the state through teaching, creative activity, research and outreach.

The College holds to the principle that knowledge must serve humanity and the environment, and it is dedicated to global responsibility, justice and ethics.

SPECIAL EMPHASIS

Learner-Centered College

The College of Arts and Sciences centers its considerable human and technological resources on the individual student and that student's learning. In the Mathematics Technology Learning Center, students use computer-based instruction to learn at a pace suited to their individual needs. Technology used in other courses encourages active, not passive, interaction with course materials. The college seeks to educate self-reliant young men and women who know themselves and contribute significantly to their professions and communities.

Undergraduate Research and Creative Activity

Undergraduate students in the College of Arts and Sciences have remarkable access to opportunities for research and creative activities under the guidance of a faculty member. The opportunity to move from synthesizing information and ideas generated by others to creating new ways of knowing is a remarkable intellectual leap and one that many students in A&S take. The College sponsors undergraduate research days that encourage students to share their experiences.

Blount Undergraduate Initiative

Endowed by Winton and Carolyn Blount and assisted by many other donors, the Blount Undergraduate Initiative is a four-year program that offers students in the College of Arts and Sciences a unique opportunity for an enriched undergraduate liberal arts education in a lively and enjoyable community of scholars. All entering freshmen in the College of Arts and Sciences, regardless of their academic interests, are eligible to apply for admission. With courses and other activities, the program emphasizes the connectedness of knowledge and the importance of faculty-student learning partnerships. See the Blount Undergraduate Initiative section of this catalog.

Interdisciplinary Study

Virtually all of the programs of study of the college emphasize interdisciplinary study. Whether a student's interest is American studies, studio art, or biology, the ability to draw together learning from different fields, to integrate it and to use it later to analyze and solve problems in one's profession, community, and own life is the key characteristic of a liberally educated person. Interdisciplinary learning is especially important to students' experiences in New College. New College seminars that are open to all students and the New College depth studies are hands-on experiences with interdisciplinary learning.

Learning Communities

Any sense that a student can be "just a number" evaporates in a learning community. In the College of Arts and Sciences, these take different forms, some being residential and others not affecting the choice of residence hall, but all fuse common academic experiences with out-of-class community. The College emphasizes the importance of these for freshman students especially.

International Education

Citizenship is global. As the College prepares students for citizenship, this fact is emphasized across the curriculum. While the college has strong language programs, including the unique Critical Languages program in which students can study the languages of many parts of the world, global citizenship affects all of the disciplines of the college. College of Arts and Sciences faculty lead many of the University's summer study abroad programs and direct semester-long programs as well for students in the College.

Academic Exploration

Many students enter the College of Arts and Sciences undecided about their academic direction. The College encourages these students to explore the resources of the college and the University during their first several semesters in order to make informed choices. The University General Education Requirement, which includes virtually all of the introductory courses in the disciplines of the College, enables students to meet degree requirements while determining those fields of study that fit best with their talents and what they think is important.

Pre-professional Preparation

Many College of Arts and Sciences graduates go on to medical school, law school, dental or optometry school, physical or occupational therapy programs, or other health-related or professional study. Arts and Sciences majors provide excellent preparation for all of these programs and the College's pre-professional advising programs are very supportive. Student organizations, including Alpha Epsilon Delta, the pre-medical honorary in which UA is the alpha chapter, are also important parts of pre-professional preparation.

UNDERGRADUATE DEGREE PROGRAMS

Bachelor Degrees

The College of Arts and Sciences offers majors and minors in a variety of disciplines in the social and behavioral sciences, the natural sciences and mathematics, and in the humanities and fine and performing arts. The College offers programs of study leading to the bachelor of arts (BA) degree, the bachelor of science (BS) degree, the bachelor of music (BM) degree, bachelor of fine arts (BFA), the bachelor of science in chemistry (BCh), the bachelor of science in geology (BSG) and the bachelor of science in microbiology (BMB).

DEGREE REQUIREMENTS

I. General Education Requirement

All courses that carry the following General Education designations are listed on the University of Alabama Web site and usually are displayed in each semester's Schedule of Classes. Please consult the listings for each semester.

- | | |
|--|---------|
| 1. Freshman composition (FC) | 6 hours |
| 2. Upper-level writing (W) courses | 6 hours |

Writing-designated (W) courses are 300- and 400-level courses usually completed in the student's junior and senior years and most commonly in the major or minor. The writing requirement must be satisfied by courses taken at The University of Alabama.

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|--|---------|
| 3. Foreign language (FL) or computer (C) | 6 hours |
|--|---------|

Each student completes one of the following options:

- a. Six semester hours in courses that are approved for the computer (C) designation. Such courses assume a working knowledge of the computer.
- b. Two semesters or the equivalent in one foreign language (FL). Students must earn grades of "C-" or higher in the first course of the two-semester sequence before enrolling in the second course.
4. Humanities (HU), literature (L), and fine arts (FA)12 hours
To satisfy this requirement, each student completes the following:
 - a. Fine arts (FA)..... 3 hours
 - b. Literature (L)..... 3 hours
 - c. Other fine arts (FA), literature (L), or humanities (HU) courses 6 hours

Each student must complete a 6-semester-hour sequence in either literature or history.

To satisfy the breadth of learning so important to general education, a maximum of 6 hours in any one department may be applied to the humanities, literature, and fine arts (HU, L, FA) and history and social behavioral sciences (HI, SB) requirements.

5. History (HI) and social and behavioral sciences (SB).....12 hours
To satisfy this requirement, each student completes the following:
 - a. History (HI)..... 3 hours
 - b. Other HI and SB9 hours
6. Natural sciences (N) and mathematics (M).....11 hours
To satisfy this requirement, each student completes the following:
 - a. Natural sciences (N), including 6 hours of lecture and 2 hours of accompanying lab.....8 hours
 - b. Mathematics (M).....3 hours

The mathematics (M) requirement must be satisfied with MATH 110 or higher.

All BS degrees must include Calculus I, MATH 125 (or MATH 145), or a higher-level calculus course.

II. Major

A. Major Subjects of Specialization

See the listings and requirements for majors and minors in this section of the catalog.

B. Hours in the Major

Each major requires a specific number of hours and that number is specified in the description of the major in this catalog. A student may choose to take additional hours in the major, but the department cannot require more than the stated number. Students in degree programs requiring 120 hours may apply a total of 42 hours in a single discipline toward degree requirements. Courses specifically excluded from the major are not included in the 42 hours.

C. Residency in the Major

All students, including transfer students, must complete in residence in the College a minimum of 12 hours at the 300 or 400 level in the major. Additional residency requirements applicable to specific majors are cited in this catalog.

D. Grade Point Average in the Major

Each student must earn a 2.0 grade point average on all work attempted in the major at The University of Alabama.

E. Duplication of Coursework

The use of the same course to satisfy specific requirements in the major and minor is not permitted. However, courses that are used to satisfy General Education Requirements can be used to complete major or minor requirements. Ancillary courses required for the major may be used to satisfy requirements in the minor or in the second major.

F. Second Majors

A student may major in more than one subject with the following provisions:

1. A student may select more than one major from those offered by the College of Arts and Sciences.
2. If choosing more than one major leads to different degrees offered in the College of Arts and Sciences (BA, BFA, BM, BS, or one of the designated degrees), the student chooses which degree to receive.
3. One major may be selected from majors offered in other UA colleges provided the student fulfills all general degree requirements of the College of Arts and Sciences and obtains approval of the other college in which the major is located.
4. If a second major is chosen, a minor is not required.

III. Minor or Second Major

A minor (or a second major) is required for most students. See the requirements for majors and minors as listed in this catalog.

A. Hours in the minor

This catalog states the number of hours and the specific courses that are required for minors approved for Arts and Sciences' students. A student may choose to take additional hours in the minor, but the department cannot require more than the stated number. Minors are subject to the same limitations on concentration of applicable hours as are majors.

B. Residency in the Minor

All students, including transfer students, must complete in residence in the College a minimum of 6 hours at the 300 or 400 level in the minor. Additional residency requirements applicable to specific minors are cited in this catalog.

C. Grade Point Average in the Minor

Each student must earn a 2.0 grade point average on all work attempted at The University of Alabama in the minor.

D. Duplication of Coursework

The use of the same course to satisfy specific requirements in the major and minor is not permitted. However, courses that are used to satisfy General Education Requirements can be used to complete major or minor requirements. Ancillary courses required for the major may be used to satisfy requirements in the minor or in the second major.

E. Second Minor

Students may minor in two subjects, with the following provisions:

1. One minor may be selected from approved minors in other divisions.
2. There is no duplication of coursework used to complete the two minor programs or the major and minors.

IV. Electives

Additional coursework to achieve 120 hours or more in the degree program is required.

V. Additional Expectations

These additional requirements are important to ensuring the liberal arts character of the degree program. The requirements set minimum standards for the degree, including promoting sufficient study at UA, setting minimum standards of quality of performance, establishing expectations for study at the advanced level and in liberal arts disciplines, and limiting the applicability of certain types of courses.

A. Catalog

All degree requirements are met under one catalog. The catalog is usually determined by that in effect at the time of the student's first enrollment, but a student may change his or her catalog to a more recent one.

B. Residence in the College and in the Major and Minor

While enrolled in the College of Arts and Sciences on this campus, students must earn a minimum of 30 hours, including at least 9 of the last 18 hours required for the degree. A minimum of 12 hours in each major and 6 hours in each minor must be earned at the 300 or 400 level in residence in the College.

C. Minimum Hours with 2.0 Grade Point Average

1. Each student must complete a minimum of 120 semester hours of coursework approved by the College of Arts and Sciences.
2. Each student must earn a 2.0 grade point average on the total number of hours attempted, including all work at UA and all transfer work.
3. Each student must earn a 2.0 grade point average on hours attempted at The University of Alabama.
4. Each student must earn a 2.0 grade point average in the major and minor fields of study on hours attempted at The University of Alabama.

D. 36 Hours in 300- and 400-Level Courses

Each student in the College of Arts and Sciences must complete a minimum of 36 semester hours in courses numbered 300 to 499. The 36-hour total may include courses taken in the major and minor, those taken as electives, and those taken in other colleges.

Junior college credits are not considered advanced level.

E. 90 Hours within the Disciplines of the College

All degree programs in the College of Arts and Sciences require at least 90 hours selected from A&S disciplines. Transfer courses in these disciplines apply to the completion of the 90 hour requirement.

Courses with the following prefixes count toward this requirement: AAST, AMS, ANT, ARB, ARH, ART, AS, AY, BSC, BUI, CH, CHI, CL, CD, CBH, CIP, CJ, CRL, CROA, CS, CZE, DN, DUT, EC, EN, FA, FIN, FLC, FR, FRS, GS, GY, GEO, GN, GR, HEB, HIN, HY, HU, IHP, INDO, IT, JA, KOR, LA, MS, MATH, MDGR, MUA, MUS, NEW, NOR, NS, PH, PHL, POL, POR, PSC, PY, REL, RUS, SAN, SOC, SP, SS, ST, SWA, SWED, TH, THAI, TURK, UA, UH, URDU, VIET, WS, WL.

F. Degree Credit for Activity Courses

A student may apply toward graduation a maximum of 4 semester hours in activity courses.

Activity courses include compass courses (AS 101, AS 102, AS 299, BCE 101, GBA 145, HES 100, NUR 102, NUR 104, UA 101); study skills courses (GS 111, NEW 111, NEW 222); leadership courses (AHE 450, BCE 210, HES 275); career exploration course (HES 250); recreation courses (NEW 201, NEW 202); kinesiology coaching courses; kinesiology leisure activities; and 100- and 200-level military science (MIL) and Air Force studies (AFS) courses.

G. Degree Credit for Upper-Division Courses in Military Science and Air Force Studies (MIL and AFS)

A student may apply toward graduation a maximum of 12 semester hours credit in 300- and 400-level courses in military science (MIL) or Air Force studies (AFS).

H. Degree Credit for Courses in the College of Continuing Studies

A student may earn a maximum of 25 percent of the work required for the degree through the College of Continuing Studies in a combination of online courses, video courses, off-campus courses, and other distance-learning courses.

IV. Second Bachelor Degree

A student with a bachelor's degree may earn a second degree by completing, in residence and with a grade point average of 2.0 or higher, a minimum of 30 semester hours over and above the requirements for the first degree, including a new major. All hours for the second degree must be in Arts and Sciences courses completed while enrolled in the College of Arts and Sciences. The University of Alabama and College of Arts and Sciences degree requirements must be met in full, according to standards in effect on the date of enrollment in the second degree program. A specific course required for both the first degree and the second degree does not have to be repeated; however, a course applied toward the minimum number of hours required for the first degree cannot be applied to the minimum number of additional hours required for the second degree. Students whose first degree was earned at another institution or in another division of The University of Alabama must meet all quantitative and qualitative requirements for the degree in accordance with regulations in effect on the date of enrollment in the Arts and Sciences degree program and may be required to complete more than 30 hours to qualify for the second degree.

ACADEMIC AND PRE-PROFESSIONAL ADVISING

The College of Arts and Sciences offers academic advising that is specific to each major and the college also offers more generalized advising available to all students in the college. The college-level advising program includes programs for students who are undecided about their academic interests and programs for students who plan careers in healthcare or the law.

Major and Minor Advising

A student who has an academic interest in one of the major programs of the College is encouraged to designate that field as soon as possible. The student is advised in the major by faculty in the program and has the benefit of faculty knowledge, advice, and enthusiasm for the field of study. Each academic department has a faculty undergraduate advising director and designates a specific faculty member to work with each student. The student and advisor plan the major courses and the student's full involvement with the major department, including the student's engagement in departmental student organizations; special opportunities available in the discipline for research, internships, and study abroad; and any other activities designed to strengthen the student's preparation. The major advisor also assists the student in selecting a minor program of study. The major advisor may authorize, upon written recommendation of the departmental undergraduate director or chair, changes in coursework required for the major or minor program of study. Such changes are reported to the College registrars in 200 Clark Hall for incorporation into the student's record.

Certification of Acceptance for Major and Minor Programs of Study

The student is responsible for making application for acceptance into the major and minor. While there is no single time for this to occur, the College expects students to declare their majors by the fourth semester of full-time enrollment. Students should be familiar with the criteria for acceptance into particular programs and be prepared to meet those criteria. Requirements for acceptance and procedures for obtaining the certification of acceptance for major/minor programs of study are available in department offices. Forms and assistance are also available in the A&S Student Services Center, 200 Clark Hall.

College Advising

Student Services Center
200 Clark Hall
studentservices@as.ua.edu
(205) 348-5960

The College of Arts and Sciences Student Services staff provides assistance to all of the College's undergraduates. Services include academic advising for all students focused on college- and university-level requirements, or on coursework necessary for law school or health careers. Specific services include: change of college; college-level scholarship programs; compass courses; degree applications and graduation certification; freshman learning communities; freshman and transfer student orientation; general information about academic policies and procedures; junior-year advising audits; living-learning communities; services for prospective students and newly admitted students; special permissions to drop courses; and transfer credit evaluation for incoming students and pre-approval of transfer credit for enrolled students; approval of international coursework for transfer. Other services include academic bankruptcy; academic second opportunity; schedule changes; and permissions to take overloads, to audit a class, and to reconcile time conflicts.

In addition, through the Pre-Professional Student Services located in Lloyd Hall, the College provides advising for students interested in careers as health professionals, other than nursing, and those interested in law. Student Services Center in Clark Hall provides academic advising for students who are undecided about their academic interests.

Academic Exploration

200 Clark Hall
(205) 348-5970
as.ua.edu/studentservices
studentservices@as.ua.edu

The College of Arts and Sciences offers a program of academic exploration designed for new or continuing students who wish to explore different academic interests before making decisions on major and minor programs of study. Students who enter as pre-major studies or exploratory students complete general education requirements at the same pace as students who have decided on their interest areas. The Academic Exploration Program offers academic advising, out-of-class programs, and opportunities for study in a number of fields so that students may make informed decisions about a major field of study. This program works cooperatively with and encourages students to use the resources of the Center for Teaching and Learning, the Writing Center, the Career Center, the Community Service Center, the departments of the College, and other UA academic divisions. Academic Exploration is closely aligned with the College's program of living-learning and learning communities.

Health Professions Student Services

Health Professions Student Services
301-302 Lloyd Hall
(205) 348-5970
hpa.ua.edu
premed@ua.edu

The health professions advising program works with all students who are interested in pursuing careers in dentistry, medicine, pharmacy, physical therapy, and other fields except nursing.

Pre-Dentistry Program

A wide variety of programs may be planned that will both fulfill specific requirements for admission to dental school and allow students to pursue their individual academic interests. Students preparing to enter dental school should consult the catalogs of the dental schools of their interest early in their undergraduate enrollment, in order to be informed of the exact requirements for entrance.

Although specific admission requirements vary, most dental schools require:

Courses	Hours
BSC 114:115 or BSC 118	4
BSC 116:117 or BSC 120	4
BSC elective	4
CH 101 or CH 117	4
CH 102 or CH 118	4
CH 231	3
CH 232	3
CH 237	2
PH 101, PH 105, or PH 125	4
PH 102, PH 106, or PH 126	4
MATH 125 or MATH 145	4

Since admission to professional schools is highly competitive, students planning careers in the health professions should be aware that satisfactory completion of pre-professional requirements does not guarantee admission to professional schools. Therefore, students are advised to plan undergraduate programs with some attention to possible alternative goals. Periodically, the health professions advisors will assist students in realistically evaluating their potential for admission to professional schools.

The pre-dental program advisor is the primary advisor for students who enter the University as pre-dental until they declare a specific major. After that and for other students who have an interest in dentistry, the pre-dental advisor is available as a secondary advisor to assist specifically with issues related to dental school.

Pre-Medical Program

The pre-medical program advisors assist students in academic planning needed to meet the admissions requirements for medical school. The advisors also provide students with assistance in preparing for interviews, scheduling the MCAT, developing recommendations, and submitting application materials. Student organizations, especially Alpha Epsilon Delta, are important parts of the pre-medical education of UA students. Information about these organizations can be obtained from the pre-med advisors.

Students interested in pursuing a career in medicine may choose from a wide variety of programs that will both fulfill specific requirements for admission to medical school and allow them to pursue individual academic interests. Students preparing to enter medical school should consult the catalog of the medical school of interest early in their undergraduate careers in order to be informed of each school's admissions requirements.

Although specific admissions requirements vary, most medical schools require the courses listed below. Most of these courses should be completed in the freshman and sophomore years.

Courses	Hours
BSC 114:115 or BSC 118	4
BSC 116:117 or BSC 120	4
CH 101 or CH 117	4
CH 102 or CH 118	4
CH 231	3
CH 232	3
CH 237	2
PH 101, PH 105, or PH 125	4
PH 102, PH 106, or PH 126	4
MATH 125 or MATH 145	4

The pre-medical program advisor is the primary advisor for students who enter the University as pre-medical until they declare a specific major. After that and for other students who have an interest in medicine, the advisor is available as a secondary advisor to assist specifically with issues related to medical school preparation.

Pre-Pharmacy Program

The College of Arts and Sciences at The University of Alabama offers prerequisite courses needed prior to admission to graduate programs in pharmacy. A student wanting to complete a doctoral degree in pharmacy in the minimum period of time should plan on transferring to a school of pharmacy after completing the required undergraduate courses, and he or she should begin the application process after the first or second year of undergraduate study. Some students apply for admission to a pharmacy program at a later stage, such as following the completion of an undergraduate degree, provided they have met appropriate admission requirements.

Registration in the freshman and sophomore years in the College of Arts and Sciences does not guarantee admission to the professional phase of a school of pharmacy. Enrollment in the professional phase is limited, and the student will be accepted in accord with his or her scholastic standing and aptitude for a career in pharmacy. Final selection of students is made by an admissions committee, and although there is no absolutely required grade point average, the accepted students in recent years have averaged approximately a 3.5 average on a 4.0 scale.

Because prerequisite courses vary considerably among pharmacy schools, and the requirements frequently change, the most prudent approach is to consult the Web sites of the pharmacy schools for the most recent required courses. American Association of Colleges of Pharmacy (aacp.org) maintains a database of pharmacy schools, and the health professions advisors can also assist students with choosing appropriate undergraduate courses. Almost all pharmacy schools will require at a minimum:

Courses	Hours
CH 101 or CH 117	4
CH 102 or CH 118	4
CH 231	3
CH 232	3
CH 237	2
BSC 215	4
BSC 216	4
MATH 125 or MATH 145	4

Additional undergraduate course requirements are determined by each pharmacy school. The pre-pharmacy program advisor is the primary advisor for students who enter the University as pre-pharmacy until they declare a specific major. After that and for other students who have an interest in pharmacy, the advisor is available as a secondary advisor to assist specifically with issues related to pre-pharmacy.

Pre-Physical Therapy Program

Although some institutions offer undergraduate degrees in physical therapy, the standard for practice in the field of physical therapy is the graduate degree. The College of Arts and Sciences does not offer an undergraduate degree program in physical therapy, but instead offers programs of study that prepare students appropriately for entry into master's and doctoral programs. In preparing for entry into a graduate program, students may pursue one of several different majors in the College of Arts and Sciences.

The pre-physical therapy program assists students in completing degrees at The University of Alabama that prepare them to enter graduate programs in physical therapy elsewhere. As an example of some of the important fields of study that are parts of the preparation of pre-physical therapy students, UA students who enter the doctoral program in physical therapy at The University of Alabama at Birmingham are expected to have completed the courses that follow in English, the sciences, psychology, and mathematics.

Courses	Hours
EN 101.....	3
EN 102.....	3
BSC114:115 or BSC 118	4
BSC 116:117 or BSC 120	4
BSC 215	4
BSC 216	4
CH 101 or CH 117	4
CH 102 or CH 118	4
PH 101, PH 105, or PH 125	4

PH 102, PH 106, or PH 126	4
MATH 113.....	3
PY 101	3
PY 211	3
PY electives.....	6

The pre-physical therapy advisor is the primary advisor for students who enter the University as pre-physical therapy until they declare a specific major. After that and for other students who have an interest in physical therapy, the advisor is available as a secondary advisor to assist specifically with issues related to study in physical therapy.

Advising for Other Health Professions

While at The University of Alabama, students may prepare for professions in occupational therapy, veterinary medicine, chiropractic medicine, podiatric medicine, or any other health-related professions requiring an advanced degree. Required undergraduate courses vary considerably among these programs; therefore, students should make an appointment with the health professions advisors early in their academic programs to ensure that they are adequately prepared for admission to a graduate program following completion of a degree at The University of Alabama. For more information, contact the health professions advisors at (205) 348-5970.

Pre-Law Student Services

200 Clark Hall
(205) 348-5970
www.prelaw.ua.edu
prelaw@as.ua.edu

The pre-law program works with students who are interested in law as a career to plan the courses and experiences that will best prepare them for law school, to decide which specific schools are best for them, and to complete the application process. Students preparing for law school may pursue different disciplinary interests. Several departments in the College of Arts and Sciences, including the Department of Philosophy, the Department of Political Science, and New College, offer pre-law programs of study, but many other departments offer courses that prepare pre-law students. Student organizations, visits to the UA Law School, shadowing, and internships are important parts of the pre-law experience.

Unlike some pre-professional programs that require specific courses, the pre-law program emphasizes the importance of broad liberal arts preparation. Courses that require substantial writing are good preparations for law school, as are those courses that require logical thinking and the construction of arguments. Appropriate courses range from English and history, to economics and mathematics, to communication studies. Examples of appropriate pre-law courses include the following.

Courses	Hours
EN 101.....	3
EN 102.....	3
COM 123	3
PSC 101	3
EC110	3
HY 101 or HY 203	3
HY 102 or HY 204	3
PHL 101.....	3
PHL 104.....	3
PHL 225.....	3

The pre-law program advisor is the primary advisor for students who enter the University as pre-law until they declare a specific major. After that and for other students who have an interest in pre-law, the advisor is available as a secondary advisor to assist specifically with issues related to pre-law preparation.

PROGRESS TO DEGREE

Expected Progress

During the fall and spring semesters, the recommended course load for students in the College of Arts and Sciences is 14-16 hours per semester. A course load of more than 18 hours requires special permission (A&S Student Services Center, 200 Clark Hall). A course load under 12 hours is not considered full-time enrollment.

During the summer semester, students may enroll for a maximum of 17 hours (3 hours in Interim and 7 hours each summer term).

Student Responsibility

1. Students are expected to familiarize themselves with this catalog and consult academic advisors in planning their programs of study.

2. Students are responsible for registering for course loads appropriate to the degrees they seek and consistent with their individual circumstances.

3. Students are expected to pursue successful completion of all courses for which they enroll.

4. Students are responsible for monitoring the accuracy of their academic records and reporting any errors to the College registrar in the A&S Student Services Center, 200 Clark Hall.

5. Students are expected to maintain a myBama e-mail account, mailing addresses, and telephone numbers at which they can be reached with reasonable certainty and to respond promptly to all communications from the University and the College.

6. Students are expected to be familiar with the current academic calendar.

7. Students are expected to make full use of the degree auditing programs available on the University Web site for students.

Admission and Retention

The College of Arts and Sciences admits students on the basis of the University's general admission requirements listed in this catalog. As noted in the department program descriptions, in some departments, admission to upper-division status, clinical training programs, internships, or practicums may require higher levels of scholarship. Retention is based on the general scholarship rule and the scholastic progress standard.

Course Placement

The College of Arts and Sciences awards credits and places students in courses based on several criteria. First, course credits are awarded based on Advanced Placement scores, International Baccalaureate scores, and other sources recognized by the Office of the University Registrar. Other placement information is as follows:

In English

English 103 is an accelerated freshman composition course that is open to students with minimum ACT composite scores of 28 (or English scores of 30) or minimum SAT scores of 1240 (or verbal scores of 720). At the completion of English 103 with a grade of C- or higher, placement credit is awarded for English 101 and the general studies requirement for freshman composition is complete.

In Foreign Languages

The course level at which students begin their study of a foreign language is determined by several factors. These factors include the following: the number of high-school units complete; language placement examination scores; or, for those with native or heritage competency, faculty evaluation. Placement testing is offered in French, German, Latin, Russian, and Spanish.

Level Placement Criteria

- | | |
|-----|--|
| 101 | No prior instruction in the language, fewer than two high-school units in the language, instruction more than four years ago, or UA placement test |
| 102 | UA credit for 101 or, except for Spanish, UA placement test |

103* Two high-school units in the language or 101 at another institution

201 Credit for 102 or 103 or UA placement test

202 Credit for 202 or UA placement test

*Available in French, German, and Spanish.

When students are placed in French, German, Latin, Spanish, and Russian courses numbered 200 or higher and they successfully complete the course into which they were placed, they can apply to the Department of Modern Languages and Classics to receive credits for some courses that precede the course into which they were placed.

International students who possess native competency in a language or United States citizens who are bilingual are placed individually by members of the language faculty. These students normally do not receive credit for courses below the 300 level. These students should contact the Department of Modern Languages and Classics before attending summer orientation or before registering for a course in the language in which they have this competency.

In Mathematics

For those students who do not have credit for any college-level mathematics equivalent to a UA mathematics course, placement is determined by the mathematics assessment. This examination is offered prior to freshman orientation and can also be taken at other times. It may be attempted more than once.

If students have successfully completed a high-school calculus course and have an ACT mathematics score of 29 and above or an SAT quantitative score of 640 and above, the students may enroll in Calculus I or a lower-level mathematics course without taking the UA mathematics assessment.

In Music

Auditions determine placement in specific applied courses. Auditions should occur before freshman orientation and registration.

Changes in Student Course Schedules

While students may change schedules, for various reasons, it is important that students maintain at least 12 hours of coursework each fall and spring semester, and the recommendation is for 14-16 hours.

First-semester freshmen and first-semester transfer students who have not met the freshman composition requirement enroll in an appropriate English composition course and continue taking required English courses until the composition requirement is met. Students may not drop required freshman-level English courses. Students also may not withdraw from mathematics courses graded "A," "B," "C," or "NC." These mathematics courses include MATH 005, MATH 100, MATH 110, MATH 112, MATH 113, and MATH 115.

Students may drop or add courses during the late registration period at the beginning of each semester. Specific dates are given on the University of Alabama Web site.

A student may drop a course other than the English and mathematics courses listed above with a grade of "W" during the first 10 weeks of the fall and spring semesters.

After the tenth week of class, only under extraordinary and well-documented circumstances are students permitted to withdraw from a class with a grade of "W." Requests for late withdrawals are made to the Student Services Center in 200 Clark Hall.

The short summer terms permit a drop with a grade of "W" for two weeks.

Course Repeat

A course passed at any institution with a grade of "C-" or higher cannot be repeated at The University of Alabama, except as an audit.

A course passed at The University of Alabama with a grade of "D" may be repeated. A record of both the original and repeat enrollment appears on the student's transcript. With respect to hours and grade points applicable to degree requirements and honors-designation requirements in the College, each enrollment is counted in the cumulative hours attempted and cumulative grade points earned, but only the most recent enrollment counts in the cumulative hours applicable to the degree.

Audit

A student may audit one course per semester. Permission to audit may be obtained in the A&S Student Services Center, 200 Clark Hall, prior to the end of the first week of class each semester. An auditor may not take the tests or the final examination in the course. A course that is taken as an audit may not be taken at a later date for credit. An audited course is not included as hours for enrollment purposes, but tuition charges do apply.

Pass/Fail Option

The pass/fail option is designed to encourage students to explore areas of study outside the major and minor. A course taken pass/fail counts as elective credit only; it cannot be used to satisfy any specific requirement and does not count in the minimum number of hours required for the major or minor. University-wide pass/fail regulations are explained in the general information section of this catalog. To take a course pass/fail, students in the College of Arts and Sciences must receive approval in the A&S Student Services Center, 200 Clark Hall.

Prerequisite Policy

The catalog and registration system provide information on the preparation necessary in order to enroll in a specific course. All 300-level courses in Arts and Sciences have either a specific prerequisite course or have the expectation that the student will have junior standing (61 earned hours), or the permission of the instructor, in order to enroll.

Graduation

Each candidate for a degree must submit an "application for degree" form. The forms should be submitted online no later than one term prior to the term of graduation. Students who expect to complete degree requirements in May submit the application form during the preceding fall semester. Those who expect to finish degree requirements in August or December should submit the application during the previous spring semester. In all cases, the deadline for submission of the form is the last day to register for the final semester in residence. Students who submit the application after registration for the final semester can expect the degree one term later. Degrees are awarded in May, August, and December.

Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors or error occasioned by honest mistake. All information contained in this catalog is subject to change by the appropriate officials of The University of Alabama without prior notice.

Academic Departments, Major and Minor Programs of Study

African American studies major and minor
American Studies, Department of
American studies major and minor
Anthropology, Department of
Anthropology major and minor
Art and Art History, Department of
Art (studio) major (BA)
Art (studio) major (BFA)
Art (studio) minor
Art history major
Art history minor
Arts administration concentration
Asian studies minor
Astronomy minor
Biological Sciences, Department of
Biology major and minor
Blount liberal arts minor
Chemistry, Department of
Chemistry (BCh) major
Chemistry track
Biochemistry track
Chemistry (BS) major and minor
Chinese minor
Civic engagement and leadership minor
Communicative Disorders, Department of
Communicative disorders major and minor
Comparative world literature minor
Computer-based honors minor
Creative writing minor
Criminal Justice, Department of
Criminal justice major and minor
Critical Languages Program
Dance major
Economics, Finance, and Legal Studies, Department of
Economics major and minor
English, Department of
English major and minor
Environmental Science Program
Environmental science major
External Degree Program
Foreign language and literature major
Classical civilization track
French track
German track
Greek track
Latin track
Foreign language credit options
French minor
Gender and Race Studies, Department of
General business second major
Geography, Department of
Geography (BA and BS) major and minor
Geographic information systems minor
Geological Sciences, Department of
Geology (BA, BS, and BSG) major and minor
German minor
Greek minor
Health professional degree option
History, Department of
History major and minor
Interdisciplinary environmental studies minor
International studies major and minor
Italian minor
Japanese minor
Judaic studies minor
Latin minor
Marine Science Program
Marine science/biology major
Marine science/chemistry major
Marine science/geology major
Marine science minor

Mathematics, Department of
Mathematics major
Pure mathematics track
Applied mathematics—scientific computation track
Applied mathematics—classical track
Applied mathematics—optimization track
Applied mathematics—statistics track
Mathematics education track
Mathematics minor
Mathematical statistics minor
Mathematics education minor
Microbiology (BMB) major and minor
Modern Languages and Classics, Department of
Music, School of
Music, Bachelor of (BM)
Music performance
Piano track
Organ track
Strings track
Winds and percussion track
Voice track
Jazz studies track
Music composition
Music theory
Music therapy
Music (BA) major and minor
Music (BA) with arts administration concentration
Music minor
Natural resources minor
New College (BA and BS)
Philosophy, Department of
Philosophy major and minor
Physics and Astronomy, Department of
Physics major and minor
Political Science, Department of
Political science major and minor
Psychology, Department of
Psychology (BA and BS) major and minor
Religious Studies, Department of
Religious studies major and minor
Russian minor
Sociology minor
Spanish major and minor
Student-designed minor
Theatre and Dance, Department of
Theatre major and minor
Women's studies minor

MINORS IN OTHER COLLEGES

Advertising minor
Communication studies minor
Computer science minor
Computing technology and applications minor
Consumer sciences minor
Engineering minor
Entrepreneurship minor
Food and nutrition minor
General business administration minor
Human development and family studies minor
Journalism minor
General journalism
Photojournalism
Journalism design
Management minor
Mathematics education minor
Public relations minor
Social welfare minor
Telecommunication and film minor
World business minor

African American Studies Major (AAST)

Department of Gender and Race Studies, 104 Manly Hall

grs@as.ua.edu

Degree requirements. The University of Alabama and the University of Alabama at Birmingham offer a joint degree in African American studies. Students earning the bachelor of arts (BA) degree with a major in African American studies must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in African American studies requires the successful completion of the following 33 semester hours:

Courses	Hours
AAST 201 (or AMS 201).....	3
AAST 319 (or HY 319).....	3
AAST 320 (or HY 320).....	3
AAST 401.....	3
AAST 226, AAST 302 (or AMS 302), or AAST 303 (or AMS 303)	3
AAST 202, AAST 249, AAST 341, AAST 350, AAST 412, AAST 413, AAST 415, or AAST 488.....	6
AAST electives or other approved electives.....	12
Total	33

¹Cross-listed with the following courses: AMS 202, EN 249, AMS 341, EN 350, HY 412, COM 413, COM 415, EN 488.

²Students may substitute the following courses when the focus and title is on African American or racial topics: AMS 300, AMS 321, AMS 340, AMS 402, AMS 405, AMS 492, ANT 455, ARH 481, CJ 303, COM 395, COM 467, COM 495, EN 311, GY 344, HY 200, HY 300, HY 400, PSC 364, REL 237, REL 480, SW 351, WS 240, or WS 310.

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on the UA or UAB campus.

Ancillary courses. This major does not require ancillary courses.

Required minor. This major requires the completion of a minor.

Additional major requirements. A minimum of 18 hours of 300- or 400-level courses in the major must be completed, 9 hours of which must be at the 400 level. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Students have the opportunity to complete internships in a variety of settings. Students should contact the program office for more information. Students are strongly encouraged to enroll in a research methods course and to take advantage of study abroad opportunities.

African American Studies Minor

Department of Gender and Race Studies, 104 Manly Hall

grs@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in African American studies requires the successful completion of the following 21 semester hours:

Courses	Hours
AAST 201 (or AMS 201).....	3
AAST 249 (or EN 249).....	3
AAST 319 (or HY 319) or AAST 320 (or HY 320).....	3
AAST 352 (or SOC 352 or WS 352).....	3
AAST electives or other approved electives*	9
Total	21

*Students may substitute the following courses when the focus and title is on African American or racial topics: AMS 202, AMS 300, AMS 302, AMS 321, AMS 340, AMS 341, AMS 402, AMS 405, AMS 492, ANT 455, ARH 481, CJ 303, COM 395, COM 413, COM 467, COM 495, EN 311, EN 488, GY 344, HY 200, HY 300, HY 400, HY 412, PSC 364, REL 237, REL 480, SW 351, WS 240, or WS 310.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Students have the opportunity to complete internships in a variety of settings. Students should contact the program office for more information. The program also offers occasional study abroad opportunities.

The Department of American Studies (AMS)

The Department of American Studies offers an undergraduate major and minor. American studies is the organized, interdisciplinary pursuit of knowledge about the national culture of the United States. Students can gain a comprehensive understanding of the American people's ideals, values, and patterns of behavior, and how these change over time.

American Studies Major (BA)

Department of American Studies, 101 ten Hoor Hall

www.as.ua.edu/amstud

americanstudies@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in American studies must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in American studies requires the successful completion of the following 30 semester hours:

Courses	Hours
AMS 150.....	3
AMS 151.....	3
AMS 202, AMS 203, AMS 204, or AMS 205.....	3
AMS 231 or AMS 232.....	3
AMS 491 or AMS 492.....	3
AMS electives 400 level*	6
AMS electives 300 or 400 level.....	3
AMS electives.....	6
Total	30

* Other than AMS 400.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in American studies requires the successful completion of the following courses outside the major:

Courses	Hours
HY 203 (or HY 205) and HY 204 (or HY 206).....	6
EN 209 (or EN 219) or EN 210 (or EN 220)	3
American literature EN 300 level*.....	3

*Must be chosen from the following: EN 340, EN 341, EN 342, EN 350, EN 360, EN 361, or EN 365.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Students have the opportunity to complete internships in a variety of settings. Students should contact the department for more information.

American Studies Minor

Department of American Studies, 101 ten Hoor Hall
www.as.ua.edu/amstud/
americanstudies@as.ua.edu

Admission into the minor. Students are expected to formally declare a minor. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in American studies requires the successful completion of the following 21 semester hours:

Courses	Hours
AMS 150.....	3
AMS 151.....	3
AMS 202, AMS 203, AMS 204, or AMS 205.....	3
AMS 231 or AMS 232.....	3
AMS electives 400 level*.....	3
AMS electives 300 or 400 level.....	3
AMS electives.....	3
Total	21

*Other than AMS 400.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor grade point average. This minor requires the successful completion of the following courses outside the minor:

Courses	Hours
HY 203 (or HY 205) or HY 204 (or HY 206)	3
American literature EN elective*	3

*Must be chosen from the following: EN 209, EN 210, EN 219, EN 220, EN 340, EN 341, EN 342, EN 350, EN 360, EN 361, or EN 365.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Anthropology (ANT)

The Department of Anthropology offers an undergraduate major and minor in anthropology. Anthropology includes the study of archaeology, cultural anthropology, physical anthropology, or anthropological linguistics. Students may also pursue a Southeastern archaeology track and pre-health track in either the major or the minor.

Anthropology Major (BA)

Department of Anthropology, 19 ten Hoor Hall
web.as.ua.edu/ant
anthropology@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in anthropology must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in anthropology requires the successful completion of the following 30 semester hours:

Courses	Hours
ANT 102	3
ANT 107	3
ANT 210	3
ANT 270	3
ANT 436 or ANT 440	3
ANT archaeology 300 or 400 level ¹	3
ANT physical 300 or 400 level ²	3
ANT electives 300 or 400 level.....	6
ANT elective	3
Total	30

¹The archaeology field requirement must be completed from this list: ANT 318, ANT 319, ANT 367, ANT 368, ANT 370, ANT 408, ANT 409, ANT 424, ANT 425, ANT 426, ANT 430, ANT 444, ANT 445, ANT 460, ANT 465, ANT 466, ANT 467, or any 300- or 400-level archaeology course.

²The physical anthropology course must be completed from this list: ANT 311, ANT 312, ANT 471, ANT 473, ANT 475, ANT 476, ANT 478, ANT 479, or any 300- or 400-level physical anthropology course.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. The major in anthropology does not require ancillary courses. However, students considering graduate school are encouraged to study a foreign language.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The department sponsors a local chapter of Lambda Alpha, a national anthropology honor society. Membership requires junior standing, at least 12 hours of completed coursework in the major, and a minimum overall GPA of 2.5. The department also supports an active student-run Anthropology Club, which is involved in archaeological digs, the Moundville Native American Festival, a softball team, and many other academic and recreational activities throughout the year.

Health professions concentration. Students pursuing a major or minor in anthropology who are interested in a career in health professions such as medicine, nursing, public health, health policy, epidemiology, medical anthropology, and medical sociology can choose a sequence of courses in the health professions concentration. These students should choose

the anthropology electives from the following courses: ANT 411 and 6 hours chosen from ANT 208, ANT 275, ANT 311, ANT 402, ANT 405, ANT 419, ANT 476, ANT 478, ANT 479, or any cultural or physical medical anthropology courses offered.

Southeastern archaeology concentration. Students pursuing a major or minor in anthropology who are interested in an academic career in archaeology or a career in cultural resource management with companies such as the National Park Service, the National Forest Service, Bureaus of Land Management, U.S. Army Corps of Engineers, and State Historic Preservation offices or private consulting firms should choose the anthropology electives from the following courses: ANT 269, ANT 466, and ANT 368, ANT 424, or ANT 426 for a total of 9 hours.

Anthropology Minor

Department of Anthropology, 19 ten Hoor Hall
www.as.ua.edu/ant
anthropology@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in anthropology requires the successful completion of the following 18 semester hours:

Courses	Hours
ANT 100, ANT 102, ANT 107, ANT 210, or ANT 270	6
ANT electives 300 or 400 level	6
ANT electives	6
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Art and Art History (ART, ARH)

The Department of Art and Art History offers undergraduate majors in studio art (BA and BFA) and art history (BA) and minors in studio art and art history.

Art (studio) Major (BA)

Department of Art and Art History, 103 Garland Hall
www.as.ua.edu/art
art@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in studio art must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in studio art culminating in a BA degree requires successful completion of the following 30 semester hours:

Courses	Hours
ART 110	3
ART 130	3
ART 131	3
ART 210	3
ART concentration*	12
ART elective 300 level	3
ART elective	3
Total	30

*Students must earn 12 hours in a single studio media area chosen from ceramics, digital media, painting, photography, printmaking, or sculpture.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in studio art requires the successful completion of the following courses outside the major:

Courses	Hours
ARH 252, ARH 253, or ARH 254	3
ARH 380, ARH 381, ARH 383, ARH 385, ARH 400, or ARH 481	6
ARH elective	3

Required minor. This major requires the completion of a minor.

Additional major requirements. ARH 151 is not applicable to the major in studio art. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Art and Art History sponsors two student organizations. The Art Student's League presides over a centrally located gallery that primarily features changing exhibitions of student work. The Crimson Ceramics Society is another organization that allows students opportunities to present ceramics projects in the community and across the state. Declared majors in art and art history can compete for merit-based departmental scholarships, which are awarded annually to returning students. Members of the faculty actively assist students with internship and project placement in design agencies, exhibition venues, public community projects, and area museums.

Art (studio) Major (BFA)

Department of Art and Art History, 103 Garland Hall
www.as.ua.edu/art
art@as.ua.edu

Degree requirements. The bachelor of fine arts (BFA) degree with a major in studio art is a professional degree, serving as the foundation for graduate study in studio art. Students pursuing the BFA must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 128 applicable semester hours.

Admission into the major. Students expecting to complete the requirements for the BFA in studio art in four years must begin the program as first-semester freshmen, but full admission to the BFA program is granted after the BFA review. The BFA review must be conducted during or after the completion of 18 semester hours of studio art courses, preferably during the second term of the sophomore year. If the student does not gain admission into the program after the first attempt, a second BFA review can be conducted before the completion of 30 studio hours. If the student is not accepted into the BFA program after the second BFA review, he or she will not be allowed to pursue the BFA degree. The student is responsible for keeping track of hours completed and applying at the appropriate time. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in studio art culminating in the BFA degree requires successful completion of the following 81 semester hours:

Courses	Hours
ART 110.....	3
ART 130	3
ART 131	3
ART 210	3
ART 302, ART 310, or ART 311	6
ART 212, ART 216, ART 218, ART 220, ART 222, or ART 224*	12
ART primary concentration* 300 or 400 level.....	12
ART secondary concentration* 300 or 400 level	9
ARH 252, ARH 253, or ARH 254.....	6
ARH 380, ARH 381, ARH 383, ARH 385, ARH 400, or ARH 481.....	6
ARH electives.....	6
ART and ARH electives.....	12
Total	81

*Students should select studio courses to total 12 hours in a single studio media area chosen from ceramics, digital media, painting, photography, printmaking, and sculpture and another 9 hours in a second studio media area. For instance, a student could have 12 hours of painting and 9 hours of sculpture.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. This major does not require ancillary courses.

Required minor. The BFA does not require completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Art and Art History sponsors two student organizations. The Art Student's League presides over a centrally located gallery that primarily features changing exhibitions of student work. The Crimson Ceramics Society is another organization that allows students opportunities to present ceramics projects in the community and across the state. Declared majors in art and art history can compete for merit-based departmental scholarships, which are awarded annually to returning students. Graduating senior BFA majors present their most mature artwork in the BFA show, which is produced annually. Members of the faculty actively assist students with internship and project placement in design agencies, exhibition venues, public community projects, and area museums.

Art (studio) Minor

Department of Art and Art History, 103 Garland Hall
www.ua.edu/art
art@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in studio art requires the successful completion of the following 18 semester hours:

Courses	Hours
ART 110, ART 130, ART 131, or ART 210.....	6
ART concentration*.....	6
ART elective 300 or 400 level.....	3
ART elective.....	3
Total	18

*Students must earn 6 hours in a single studio media area chosen from ceramics, digital media, painting, photography, printmaking, or sculpture.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed in the minor GPA. The minor in art requires the successful completion of the following courses outside the minor:

Courses	Hours
ARH 252, ARH 253, or ARH 254.....	3
ARH elective 300 or 400 level.....	3

Additional minor requirements. ARH 151 is not applicable to the minor in studio art. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Art History Major (BA)

Department of Art and Art History, 103 Garland Hall
arthistory@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in art history must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in art history requires successful completion of the following 33 semester hours:

Courses	Hours
ARH 252, ARH 253, or ARH 254.....	6
ARH electives 300 or 400 level	12
ARH electives.....	15
Total	33

Upper-level residency. A minimum of 12 hours in 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in art history requires the successful completion of the following courses outside the major:

Courses	Hours
ART electives	6
FR or GN*	10-14

*Successful completion of two years of university-level proficiency or equivalent proficiency in a single foreign language, preferably French or German, is required.

Required minor. This major requires the completion of a minor.

Additional major requirements. ARH 151 is not applicable to the major in art history. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Art History Minor

Department of Art and Art History, 103 Garland Hall
www.as.ua.edu/art
arthistory@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in art history requires the successful completion of the following 18 semester hours:

Courses	Hours
ARH 252, ARH 253, or ARH 254.....	6
ARH elective 300 or 400 level.....	6
ARH electives.....	6
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The minor in art history requires the successful completion of the following course outside the minor:

Courses	Hours
ART elective	3

Additional minor requirements. ARH 151 is not applicable to the minor in art history. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Arts Administration Concentration

School of Music, 175 Moody Music Building
www.as.ua.edu/music
music@as.ua.edu

An arts administration concentration within the baccalaureate degree program is available in the area of music. The option is designed to provide the student with a curriculum in music combined with a minor in business (see music section for details). The arts administration concentration prepares the student for potential employment in local and state arts councils and arts funding organizations.

The basis for the arts administration concentration is a major in music with specified ancillary requirements and a Culverhouse College of Commerce and Business Administration minor in general business, entrepreneurship, management, or world business. The remainder of the hours required for the degree includes College of Arts and Sciences requirements and electives.

Asian Studies Minor

Department of Religious Studies, 212-A Manly Hall
www.as.ua.edu/asianstudies
asianstudies@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Asian studies requires the successful completion of the following 18 semester hours:

Courses	Hours
ARH 254, HY 220, HY 243, or HY 244.....	6
Asian related electives 300 and 400 level*.....	12
Total	18

*Should be chosen from ANT 416, ARH 254, ARH 355, ARH 356, ARH 455, ARH 456, CHI 301, CHI 302, CHI 350, CHI 351, CHI 353, CHI 354, CHI 401, CHI 402, HY 243, HY 244, HY 306, HY 403, HY 404, HY 405, JA 301, JA 302, JA 356, JA 357, JA 390, JA 410, JA 411, JA 481, JA 482, REL 208, REL 220, REL 321, REL 373, REL 483, WL 350, WL 351, WL 356, WL 357.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor grade point average. The minor in Asian studies requires the following outside the minor: two semesters or equivalent proficiency in one

language chosen from Chinese, Hindi, Indonesian, Japanese, Korean, Thai, or Tibetan.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Astronomy Minor

Department of Physics and Astronomy, 206 Gallalee Hall
www.as.ua.edu/physics
physics@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in astronomy requires the successful completion of a minimum of 14 semester hours:

Courses	Hours
AY 203 .....	.2
AY 204 .....	.3
AY 206 .....	.3
AY elective 300 or 400 level OR PH 301, PH 302, or PH 333.....	6-7
Total	14-15

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The minor in astronomy requires the successful completion of the following courses outside the minor:

Courses	Hours
PH 105 or PH 125 (or PH 101*).....	4
PH 106 or PH 126 (or PH 102*).....	4
PH 253:255.....	4

*General physics with calculus (PH 105 and PH 106, or honors PH 125 and PH 126) is the preferred preparation for advanced physics courses. However, general physics (PH 101 and PH 102) can substitute for students who must begin the minor courses before taking calculus.

Additional minor requirements. Students majoring in physics may not apply the same physics courses toward both the physics major and the astronomy minor. They will still need 14 hours in the minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Biological Sciences (BSC)

The Department of Biological Sciences offers three majors that culminate in baccalaureate degrees. The three majors are biology, marine science double major, and microbiology. The department also offers minors in biology, microbiology, and marine science.

Biology Major (BS)

Department of Biological Sciences
 1324 Science and Engineering Complex
www.as.ua.edu/biology
biology@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree with a major in biology must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 120 applicable semester hours. The major offers three optional concentrations that are described under "Special opportunities," which follows.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form. The department recommends that students declare a biology major as soon as possible to ensure participation in major advising.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in biology requires the completion of the following 36 semester hours:

Courses	Hours
BSC 114:115 or BSC 118.....	4
BSC 116:117 or BSC 120.....	4
BSC 300.....	3
BSC 315.....	3
BSC 385.....	3
BSC 450 or BSC 483.....	3
BSC or MS electives above 250*.....	16
Total	36

*Other BSC courses numbered 250 and above, including two laboratory courses from the following list of laboratory courses: BSC 310, BSC 313, BSC 320, BSC 350, BSC 360, BSC 371, BSC 373, BSC 376, BSC 386, BSC 390, BSC 396, BSC 398, BSC 400, BSC 413, BSC 414, BSC 416, BSC 425, BSC 428, BSC 432, BSC 434, BSC 436, BSC 439, BSC 442, BSC 457, BSC 460, BSC 464, BSC 469, BSC 472, BSC 475, BSC 476, BSC 489, BSC 490, MS 306, MS 408, MS 411, MS 419, MS 452, and MS 453. Also see "Additional major requirements."

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in biology requires the successful completion of the following courses outside the major:

Courses	Hours
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 231.....	3
CH 232:237.....	5
MATH 125 or MATH 145.....	4
PH 101, PH 105, or PH 125.....	4
PH 102, PH 106, or PH 126.....	4

Required minor. The biology major does not require a minor.

Additional major requirements. The department offers a number of courses designed to enrich the learning experience of students beyond the traditional classroom setting. These courses include BSC 391, BSC 393, BSC 396, BSC 398, BSC 399, BSC 403, BSC 404, BSC 407, and MS 398. Beyond specific restrictions listed for each course, a total of 4 hours from this group may be applied to the requirements of the biology major or minor. An additional 4 hours may be applied as electives to the requirement for 120 hours for the degree. BSC 409 and BSC 410 are not applicable to the major in biology. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Biological Sciences offers a number of special opportunities for students, including an honors program, a scholars program, and a number of special areas of concentration. **Honors program.** The Biological Sciences Honors Program is available to students majoring in either biology or microbiology after the completion of 16 hours of BSC courses with a GPA of 3.4 in BSC courses and overall. Admission into the program requires the approval of the Honors Program Committee and acceptance of the student by primary advisors and co-advisors. Requirements for the program include 4–8 hours of BSC 390 Honors Thesis Research; an acceptable honors thesis; attendance in BSC 407 Honors Seminar in Biological Sciences; completion of the advanced portion of the Graduate Record Examination; and maintenance of a 3.4 GPA in biological science courses and a 3.4 overall GPA. Additional details are available in the office of the Department of Biological Sciences.

Scholars program. The Department of Biological Sciences also participates in the University Scholars Program that allows highly motivated students to pursue closely integrated undergraduate and graduate programs that

may lead to the simultaneous completion of requirements for both master's and bachelor's degrees. Students usually apply for admission prior to the junior or senior year. For more information about the University Scholars Program, visit online graduate.ua.edu or consult the University of Alabama graduate catalog.

Molecular/biotechnology biology concentration. Students pursuing a major in biology who are interested in specialized biology can choose a sequence of courses in the molecular/biotechnology concentration. These students should choose the biology electives from the following courses: BSC 439, BSC 441, and BSC 451; and additional courses from BSC 310, BSC 311, BSC 313, BSC 350, BSC 435, BSC 436, BSC 442, BSC 444, BSC 493, BSC 494, BSC 495, or BSC 496.

Ecology and systematics concentration. Students pursuing a major in biology who are interested in specialized biology can choose a sequence of courses in the ecology and systematics concentration. These students should choose the biology electives from the following courses: BSC 360 or BSC 371; BSC 373 or BSC 376; and one of the following: BSC 303, BSC 320, BSC 350, BSC 412, BSC 415, BSC 416, BSC 417, BSC 420, BSC 433, BSC 434, BSC 456, BSC 457, BSC 464, BSC 480, BSC 482, BSC 489, BSC 490, or BSC 496.

Health professions concentration. Students pursuing a major in biology who are interested in a career in health professions such as medicine, dentistry, optometry, pharmacy or veterinary medicine can choose a sequence of courses in the health professions concentration. The concentration also provides in-depth exposure to subject material found on the MCAT, DAT, and OAT. These students should choose the biology electives from the following courses: BSC 310, BSC 400, BSC 409, BSC 410, BSC 424, BSC 425, BSC 431, BSC 432, BSC 435, BSC 449, BSC 450, BSC 460, BSC 469, and BSC 494.

Biology Minor

Department of Biological Sciences
1324 Science and Engineering Complex
www.as.ua.edu/biology
biology@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in biology requires the completion of the following 22 semester hours:

Courses	Hours
BSC 114:115 or BSC 118.....	4
BSC 116:117 or BSC 120.....	4
BSC electives 300 or 400 level.....	6
BSC electives 200 level or above.....	8
Total	22

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. No more than 4 hours earned in BSC enrichment courses may be applied to the minor. Enrichment courses are BSC 391, BSC 393, BSC 396, BSC 398, BSC 399, BSC 403, BSC 404, BSC 407, and MS 398. BSC 409 and BSC 410 are not applicable to the minor in biology. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Blount Liberal Arts Minor

202 Oliver Barnard Hall
www.as.ua.edu/blount
 Blount@as.ua.edu

Admission into the minor. Only students admitted to the Blount Undergraduate Initiative can pursue the Blount liberal arts minor. Students are expected to declare a minor formally. With the assistance of the director of the Blount Undergraduate Initiative, students should complete the "Declaration of Minor" form no later than the fourth semester of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The Blount liberal arts minor requires the successful completion of the following 17–20 semester hours:

Courses	Hours
BUI 100.....	2
BUI 101.....	3
BUI 102.....	3
BUI 301.....	9
BUI 401.....	3
Total	17–20*

*A maximum of 3 hours of Blount coursework may be applied toward another major or minor, reducing the number of hours required for the minor to 17.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Chemistry

The Department of Chemistry offers a major in chemistry culminating in a bachelor of science in chemistry (BCh) degree or a bachelor of science (BS) degree. The BCh degree is American Chemical Society-certified (ACS-certified) and consists of two tracks, chemistry and biochemistry. The BS degree with a major in chemistry is not ACS-certified and is designed primarily for students pursuing health professions. The Department also offers a minor in chemistry.

Chemistry Major (BCh)

Department of Chemistry, 2004 Shelby Hall
www.as.ua.edu/chem
 chemistry@as.ua.edu

Degree requirements. Students earning the bachelor of science in chemistry (BCh) degree must complete all University, college (see pp. 52–54), and departmental degree requirements. These include the general education requirements, the following major requirements chosen from one of two tracks, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Degree tracks. The ACS-certified degree tracks in chemistry and biochemistry provide thorough preparation for students interested in pursuing careers in chemistry, biochemistry, or related fields (for example biomedicine, forensics, toxicology, and environmental science); pursuing graduate studies in chemistry or related fields; or enrolling in a health professions school (MD, DDS, PharmD, or DVM) upon graduation.

Major courses. The major in chemistry BCh degree requires the successful completion of one of the following tracks for 41 or 43 semester hours:

Chemistry Track	Hours
Courses	
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 223.....	4
CH 231.....	3
CH 232:237.....	5
CH 338.....	2
CH 341.....	3
CH 342.....	3
CH 348.....	2
CH 413.....	4
CH 424.....	4
CH 461.....	3
Total	41

Biochemistry Track	Hours
Courses	
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 223.....	4
CH 231.....	3
CH 232:237.....	5
CH 338.....	2
CH 341.....	3
CH 342.....	3
CH 348.....	2
CH 413.....	4
CH 461.....	3
CH 462.....	3
CH 463.....	3
Total	43

Upper-level residency. A minimum of 18 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in chemistry culminating in the BCh degree requires the successful completion of the following courses outside the major:

Courses	Hours
MATH 125 or MATH 145.....	4
MATH 126 or MATH 146.....	4
MATH 227 or MATH 247.....	4
PH 105 or PH 125.....	4
PH 106 or PH 126.....	4

Required minor. The BCh degree (both chemistry and biochemistry tracks) does not require a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Chemistry Honors Program is available to students pursuing either of the ACS-certified bachelor of science in chemistry tracks. To participate in the chemistry honors program, students must complete the course requirements for either track in the ACS-certified bachelor of science in chemistry degree; maintain a 3.3 GPA in chemistry courses, with no more than one "C," and a 3.0 overall GPA; participate in CH 491:492, CH 493:494, honors research seminars, and research courses; submit an acceptable senior thesis based on research conducted under the supervision of a chemistry department faculty member; and submit scores on the Graduate Record Examination or other appropriate examinations prior to graduation. Students are invited to apply for admission to the honors program in chemistry on the basis of performance in introductory chemistry courses. Contact the chemistry department director of undergraduate studies for more details.

The department sponsors student organizations, including the Student Affiliates of the American Chemical Society; the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers;

and Gamma Sigma Epsilon, the national chemistry honorary. Gamma Sigma Epsilon aims to recognize academic performance by chemistry majors, promote an interest in chemistry among students and the community, and foster a feeling of fellowship among its members. Students are eligible for membership who have completed, or are near completion of, their second year of chemistry courses and who have maintained a minimum 3.3 GPA for chemistry courses and overall. Applications for membership are generally accepted in the spring semester.

Pre-health professional preparation. Students completing any of the chemistry major tracks or the minor in chemistry will have fulfilled all chemistry, math, and physics requirements for admission to pre-health professional programs (medical, dental, optometry, pharmacy, veterinary, etc. schools). With the addition of appropriate biological sciences electives, students earning the BCh degrees will have met all math and science requirements for pre-health professional programs.

Undergraduate research. The Department of Chemistry offers two undergraduate research courses designed to provide students with a hands-on experience at the forefront of chemistry. These courses include CH 396:398:399 and CH 497:498:499. In each course, students work directly with a faculty member on a research project. Chemistry majors, minors, and students with an interest in chemistry are encouraged to become involved in undergraduate research through these courses. Students should receive approval from the faculty mentor before registering for a research course. Students may find descriptions of faculty research interests on the Department of Chemistry Web site. Students may contact potential research mentors directly or seek advice on possible mentors from their academic advisors.

Chemistry Major (BS)

Department of Chemistry, 2004 Shelby Hall
www.as.ua.edu/chem
chemistry@as.ua.edu

The Pre-Health Professional Track is suitable for students who are primarily interested in attending a health professional school upon graduation. The major in chemistry (BS) may provide less flexibility in pursuing career options in chemistry and other scientific fields.

Degree requirements. Students earning the bachelor of science (BS) degree with a major in chemistry must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in chemistry requires the successful completion of the following 35 semester hours:

Courses	Hours
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 223.....	4
CH 231.....	3
CH 232:237.....	5
CH 338.....	2
CH 340:343.....	4
CH 461.....	3
CH 462.....	3
CH 463.....	3
Total	35

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in chemistry culminating in the BS degree requires the successful completion of the following courses outside the major:

Courses	Hours
BSC 114:115 or BSC 118.....	4
BSC 116:117 or BSC 120.....	4
MATH 125 or MATH 145.....	4
PH 101 (or PH 105 or PH 125).....	4
PH 102 (or PH 106 or PH 126).....	4

Required minor. The major in chemistry (BS degree) requires a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Students pursuing this track may participate in Student Affiliates of the American Chemical Society, the National Organization for the Professional Advancement of Black Chemists and Chemical Engineers, and Gamma Sigma Epsilon, as well as the pre-medical organizations.

Chemistry Minor

Department of Chemistry, 2004 Shelby Hall
www.as.ua.edu/chem
chemistry@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in chemistry requires the successful completion of the following 24 semester hours:

Courses	Hours
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 223.....	4
CH 231.....	3
CH 232:237.....	5
CH 340:343.....	4
Total	24

Upper-level residency. A minimum of 6 hours in the minor must be earned on this campus including 4 hours in 300- and 400-level chemistry courses.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The minor in chemistry requires the successful completion of the following courses outside the minor:

Courses	Hours
PH 101, PH 105, or PH 125	4
PH 102, PH 106, or PH 126.....	4

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Chinese Minor

Department of Modern Languages and Classics
200 B.B. Comer Hall
www.as.ua.edu/mlc
chinese@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Chinese requires successful completion of the following 20 semester hours:

Courses	Hours
CHI 101.....	4
CHI 102.....	4
CHI 201.....	3
CHI 202.....	3
CHI 301 and CHI 302 (or CHI 401 and CHI 402).....	6
Total	20

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Civic Engagement and Leadership Minor

New College and Department of Philosophy
with the Department of Military Science

New College, 201 Lloyd Hall
www.as.ua.edu/nc
newcollege@as.ua.edu

Department of Philosophy
336 ten Hoor Hall
www.as.ua.edu/philos
philosophy@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in civic engagement and leadership requires the successful completion of the following 19 semester hours:

Courses	Hours
PHL 200 or PHL 202.....	3
NEW 237 or NEW 238.....	4
Elective courses ¹ OR MIL or AFS ²	12
Total.....	19

¹Students must earn 12 hours of courses chosen from the following: AAST 352, BCE 210, BCE 300, CSM 405, CSM 437, HES 450, MGT 300, MGT 320, MGT 341, MC 405, MC 413, NEW 270, NEW 415, NEW 436, PHL 101, PHL 310, PHL 400, PSC 102, PY 372, SW 351, UH 101, or WS 200.

²Qualified ROTC candidates may complete secondary courses from the following: AFS 350, AFS 360, AFS 470, AFS 480, MIL 110, MIL 120, MIL 210, MIL 220, MIL 310, MIL 320, MIL 410, or MIL 420.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Communicative Disorders (CD)

The Department of Communicative Disorders offers an undergraduate major in communicative disorders (speech-language pathology) and a minor in communicative disorders. Students majoring in communicative disorders are expected to matriculate to graduate study in speech-language pathology or audiology.

Communicative Disorders Major (BA)

Department of Communicative Disorders
145 Speech and Hearing Center, 700 University Blvd. E.
www.as.ua.edu/comdis
cd@as.ua.edu

Degree requirements. Students earning the bachelor of arts degree (BA) with a major in communicative disorders must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students must earn a grade of "B-" or higher in CD 275 to be admitted to the major. Sophomore standing and an overall minimum 2.5 GPA are required to enroll in any 200-level CD course. An overall minimum 2.8 GPA and completion of all 200-level CD courses (except CD 277) are required for enrollment in 300- and 400-level CD courses (except for CD 377). To be considered for clinical practicum (CD 377) students must have a minimum overall 3.3 GPA and a minimum 3.0 major GPA based on the following courses: CD 225, CD 226, CD 244, CD 275, and CD 308. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA. Minimum GPA standards are required for clinical practicum and continuance in the major. See "Admission into the major" and "Admission to Clinical Practicum."

Major courses. The major in communicative disorders requires successful completion of the following 34 semester hours:

Courses	Hours
CD 225.....	3
CD 226.....	3
CD 244.....	3
CD 275.....	3
CD 277	1
CD 308.....	3
CD 309.....	3
CD 351.....	3
CD 411.....	3
CD 443.....	3
CD 444.....	3
Chosen track*.....	3
Total	34

*Students must choose one of the following tracks:

Clinical track – must have 3.3 overall GPA	3
CD 377.....	3
Speech-language pathology track	
CD 416, CD 454, or CD 455.....	3
Audiology track	
CD 445.....	3

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in communicative disorders requires the successful completion of the following courses outside the major. Many of these courses can be used to satisfy general education requirements.

Courses	Hours
PY 101.....	3
BSC ¹	4
Physical science ²	4
COM, NEW, or PHL ³	6
BER 345, PY 211, or ST 260.....	3

¹BSC course must be chosen from the following: BSC 108, BSC 109, BSC 114:115, BSC 116:117, BSC 118, or BSC 120.

²Physical science course must be chosen from the following: AY 101:102, CH 101, CH 102, CH 117, CH 118, GEO 101, GEO 102, GY 101, GY 102, PH 101, PH 102, PH 105, PH 106, PH 125, or PH 126.

³Communication studies, philosophy, or interdisciplinary courses must be chosen from the following: COM 122, COM 220, PHL 101, PHL 104, PHL 200, PHL 204, PHL 355, NEW 211, NEW 212, NEW 414, or NEW 415.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students are advised that the communicative disorders major is considered to be pre-professional. A master's degree or the equivalent is necessary for membership in and certification by the national professional organizations and for licensure by the state of Alabama and most other states. The Department of Communicative Disorders offers a program leading to the master of science degree in speech-language pathology (see UA graduate catalog). Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements. Students majoring in communicative disorders who wish to participate in clinical practicum or audiology practicum must apply for admission into CD 377 or CD 445.

Admission into clinical practicum. Admission requirements include the following:

- Minimum overall 3.3 GPA.
- Completion and minimum 3.0 GPA in all of the following: CD 225, CD 226, CD 244, CD 275, CD 277, and CD 308.
- Overall performance review and favorable evaluation by two graduate faculty members.
- Satisfactory performance on a departmental speech and language proficiency test and hearing screening as determined by the Evaluation Committee. Failure of the speech and language test requires enrollment in speech-language therapy and retesting to determine if admission to the clinical practicum is possible.

Appropriate follow-up steps recommended by the Evaluation Committee must be taken if a student fails the hearing screening.

After admission to the practicum, students will be evaluated by the clinical supervisor and an additional clinical staff member to determine satisfactory performance. Faculty and supervisors will determine the effectiveness and continued participation of each practicum student.

Special opportunities. The Department of Communicative Disorders provides students an opportunity to participate in research with a departmental faculty member. Students also are encouraged to become active in the local and national chapters of the National Student Speech-Language-Hearing Association. Junior- and senior-level scholarship awards are available for students majoring in communicative disorders. For eligible students, the department also offers clinical practicums for hands-on experience in speech-language pathology.

Communicative Disorders Minor

Department of Communicative Disorders
145 Speech and Hearing Center, 700 University Blvd. E.
www.as.ua.edu/comdis
cd@as.ua.edu

Admission into the minor. An overall minimum 2.5 GPA and sophomore standing are required for entry into 200-level CD courses. An overall minimum 2.8 GPA and completion of 200-level CD courses are required for enrollment in 300- and 400-level CD courses. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA. Minor

GPA standards are required for continuance in the minor. See "Admission into the minor."

Minor courses. The minor in communicative disorders requires successful completion of the following 18 semester hours:

Courses	Hours
CD 225.....	3
CD 226.....	3
CD 275.....	3
CD 308.....	3
CD 309.....	3
CD 443.....	3
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Comparative World Literature Minor

Department of Modern Languages and Classics

200 B.B. Comer Hall

www.as.ua.edu/mlc

complit@as.ua.edu

Admission into the minor. The minor in comparative world literature is open only to students who have completed two years of college-level coursework in a foreign language. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in comparative world literature requires successful completion of the following 18 semester hours:

Courses	Hours
Any foreign language 201 and 202.....	6
Literature electives 300 or 400 level*	6
Literature electives*.....	6
Total	18

*A minimum of 6 hours of literature courses must be associated with the foreign language taken, either in the original text or in translation.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The minor in comparative world literature requires the successful completion of the following outside the minor: four semesters or equivalent proficiency in one foreign language. Note: Computer science does not fulfill this requirement.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Computer-Based Honors Minor

Computer Based Honors Program, 272 Nott Hall
www.cbhp.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 3.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in computer-based honors requires the successful completion of the following 20 semester hours:

Courses	Hours
CBH 101.....	4
CBH 102.....	4
CBH 201.....	3
CBH 202.....	3
CBH electives 300 or 400 level.....	6
Total	20

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Creative Writing Minor

Department of English, 103 Morgan Hall
www.as.ua.edu/english/
Creativewriting@English.as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in creative writing requires the following 18 semester hours:

Courses	Hours
EN 200.....	3
EN 301.....	3
EN 303.....	3
EN 408.....	9
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students may not enroll in EN 200 and any other creative writing course concurrently. Students may not enroll in EN 301 and EN 408 concurrently. Students may not enroll in EN 303 and EN 408 concurrently. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Criminal Justice (CJ, SOC)

The Department of Criminal Justice offers an undergraduate major in criminal justice and minors in criminal justice and sociology.

Criminal Justice Major (BA)

Department of Criminal Justice, 432-C Farrah Hall
www.as.ua.edu/cj
cj@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in criminal justice must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all

requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Acceptance into the criminal justice major requires the completion of at least 12 semester hours with a 2.25 higher education GPA. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in criminal justice requires the successful completion (grades of C- or higher) of the following 36 semester hours:

Courses	Hours
CJ 100.....	3
CJ 300.....	3
CJ 303.....	3
CJ 306.....	3
CJ 380.....	3
CJ 381.....	3
CJ 395.....	6
CJ electives (excluding CJ 395 and CJ 499).....	12
Total	36

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. This major does not require ancillary courses.

Required minor. This major requires the completion of a minor.

Additional major requirements. A grade of "C-" or higher is required in all criminal justice courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Criminal Justice Minor

Department of Criminal Justice, 432-C Farrah Hall
www.as.ua.edu/cj
cj@as.ua.edu

Admission into the minor. Acceptance into the criminal justice minor requires at least 12 earned semester hours and a 2.25 higher education grade point average. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in criminal justice requires the successful completion of the following 21 semester hours:

Courses	Hours
CJ 100	3
CJ electives* 300 or 400 level.....	6
CJ electives*	12
Total	21

*A maximum of 6 hours of CJ 395 and CJ 499 will count as CJ electives.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. A grade of "C-" or higher is required in all criminal justice courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Criminal Justice has two very active student organizations. Alpha Phi Sigma is the National Criminal

Justice Honor Society and is devoted to promoting academic excellence, leadership, and self-enrichment through academic standards and community outreach. The Criminal Justice Student Organization welcomes all students with interest in the field of criminal justice.

Critical Languages Program

Department of Modern Languages and Classics, 200 B.B. Comer Hall
www.ua.edu/clc
critcallanguages@as.ua.edu

Through the Critical Languages Program, the College of Arts and Sciences offers a variety of non-traditional languages not available at other institutions. Students can take introductory-level courses for personal interests or to fulfill the foreign language general education requirement. Some of the languages currently offered include Arabic, Croatian, Czech, Dutch, Farsi (Persian), Finnish, Hebrew, Hindi, Indonesian, Korean, Norwegian, Polish, Portuguese, Sanskrit, Swahili, Swedish, Thai, Turkish, Urdu, and Vietnamese.

Dance Major (BA)

Department of Theatre and Dance, 115 Rowand-Johnson Hall
www.as.ua.edu/theatre
dance@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in dance must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Admission to the dance major is by audition only. For information on the audition process contact The University of Alabama, Department of Theatre and Dance, Box 870239, Tuscaloosa, AL 35487-0239 or visit the Department of Theatre and Dance Web site, www.as.ua.edu/theatre. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in dance requires the successful completion of the following 36 semester hours:

Courses	Hours
DN 240.....	3
DN 265.....	3
DN 470.....	3
DN 471	3
DN technique 300 or 400 level*	6
DN electives.....	18
Total	36

*Students must earn a minimum of 6 hours from the following: DN 311, DN 312, DN 321, DN 322, DN 352, DN 411, DN 412, DN 421, DN 422, or DN 452.

Upper-level residency. A minimum of 12 hours in 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in dance requires the successful completion of the following course outside the major:

Course	Hours
TH 324.....	3

Required minor. This major requires the completion of a minor. A minor in theatre or business is recommended.

Additional major requirements. Dance majors must reach a proficiency level of 300 in the major technique (modern, ballet, or jazz) and 200 in the secondary technique (modern, ballet, or jazz) before graduation. Dance majors must participate in all program auditions. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration

each semester. College advisors are also available for additional assistance with minor, college, and University requirements

Special opportunities. The dance program, accredited by the National Association of Schools of Dance (NASD), adheres to professional standards for technique in classical ballet and modern and jazz dance. The department presents two dance concerts each semester: the Alabama Repertory Dance Theatre (ARDT) and Dance Alabama! concerts. Alabama Repertory Dance Theatre is the pre-professional student dance company that performs classical repertoire as well as contemporary and jazz choreography. Acceptance into the company is by audition only. Dance Alabama! concerts are comprised of student works that are chosen by dance faculty adjudication. Dance Alabama! is a theatrical venue designed to showcase serious choreography that is conceptually original, technically proficient and well-crafted. Participation in ARDT and Dance Alabama! is open to dance majors and non-majors. Dance students who excel in dance and academics are also eligible for acceptance into the national dance honor society, Nu Delta Alpha.

The Department of Economics, Finance, and Legal Studies (EC)

The Department of Economics offers an undergraduate major and minor in economics through both the College of Arts and Sciences and the Culverhouse College of Commerce and Business Administration. Students in any college may pursue the minor in economics.

Economics Major (BA)

Department of Economics, Finance, and Legal Studies
200 Alston Hall
[www.cba.ua.edu/econ/
economics@cba.ua.edu](http://www.cba.ua.edu/econ/economics@cba.ua.edu)

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in economics must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. Students majoring in economics must successfully complete one of the following two tracks for a total of 30 semester hours:

Standard Track

Courses	Hours
EC 110*.....	3
EC 111*.....	3
EC 308*.....	3
EC 309*.....	3
EC electives 300 or 400 level.....	6
EC electives.....	12
Total	30

*Students must complete EC 110, EC 111, EC 308, and EC 309 with a grade of "C-" or higher.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The standard track requires the successful completion of the following courses outside the major:

Courses	Hours
MATH 121, MATH 125, or MATH 145	3-4
ST 260.....	3

Quantitative Track

Courses	Hours
EC 110*	3
EC 111*	3
EC 308*	3
EC 309*	3
EC 413.....	3
EC 471.....	3
EC electives.....	12
Total	30

*Students must complete EC 110, EC 111, EC 308, and EC 309 with a grade of "C-" or higher.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The quantitative track requires the successful completion of the following courses outside the major:

Courses	Hours
MATH 125 or MATH 145.....	4
MATH 126 or MATH 146.....	4
MATH 227 or MATH 247.....	4
MATH 237 or 257.....	3
MATH 355.....	3
MATH 451.....	3
ST 260.....	3

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students considering pursuing a doctoral degree in economics are urged to take the quantitative track and, if possible, also take MATH 486. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The economics major in the College of Arts and Sciences participates in the University Scholars Program which allows students to take graduate level classes while still an undergraduate. Up to 12 hours of graduate-level courses taken as a part of this program can be used to count towards both an undergraduate and a graduate degree in economics. Interested students should contact the major advisor for more information.

Economics Minor

Department of Economics, Finance, and Legal Studies
200 Alston Hall
www.cba.ua.edu/econ
economics@cba.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in economics requires the successful completion of the following 18 semester hours:

Courses	Hours
EC 110.....	3
EC 111.....	3
EC electives 300 or 400 level*	6
EC electives.....	6
Total	18

*EC 308 and EC 309 are recommended highly.

Upper-level residency. A minimum of 6 semester hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of English (EN)

The Department of English offers an undergraduate major in English and minors in English and creative writing, and an honors program in English.

English Major (BA)

Department of English, 103 Morgan Hall
www.as.ua.edu/english
English@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in English must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in English requires the successful completion of the following 36 hours:

Courses	Hours
EN 205 or EN 215.....	3
EN 206, EN 207, EN 208, EN 209, EN 210, or EN 249 (or honors equivalents).....	9
EN theory, writing, or linguistics ¹	3
EN early literature (pre-1660) ²	3
EN 18th or 19th century literature ³	3
EN electives 400 level.....	9
EN electives 300 or 400 level.....	6
Total	36

Students must earn 3 hours chosen from each of the following areas:

¹Theory, writing, or linguistics: EN 300, EN 301, EN 303, EN 309, EN 310, EN 319, EN 320, or EN 321.

²Early literature (pre-1660): EN 330, EN 331, EN 332, EN 333, EN 334, EN 335, EN 370, or EN 371.

³Eighteenth- or nineteenth-century literature: EN 340, EN 341, EN 342, EN 343, EN 344, EN 345, EN 346, EN 347, EN 348, or EN 349.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in English requires the following outside the major: four semesters or equivalent proficiency in one foreign language. Note: Computer science does not fulfill this requirement.

Required minor. This major requires the completion of a minor.

Additional major requirements. EN 200 and EN 430 are not applicable to the major in English. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Among the special opportunities available in the Department of English include the Honors in English program and Sigma Tau Delta honor society.

Honors in English. Any English major with a superior aptitude for and a special interest in English may apply for admission to the honors program in English. The program includes special honors sections of sophomore literature courses, eligibility for the Junior Honors Seminar in English, and

an Honors Thesis. The Junior Honors Seminar (EN 399) gives students an opportunity to experience a course which cuts across conventional divisions of literary period and literary form. The Honors Thesis (EN 499) affords students the opportunity to work with faculty mentors who will guide them in readings, research, and selection of a suitable topic for the thesis. To be eligible for graduation with honors in English, participants must complete EN 215, three additional hours of honors sophomore literature (EN 216, EN 219, or EN 220), EN 399, and EN 499. Students must also have grade point averages of 3.5 in the English major and 3.3 overall upon successfully completing the program. Further information about the Junior Honors Seminar (EN 399), the Honors Thesis (EN 499), and the specific guidelines for the program can be found on the Department of English Web site. Students should also contact the coordinators of the Departmental English Honors Program.

Sigma Tau Delta. Sigma Tau Delta, a national English honor society, aims to promote a mastery of written expression, to encourage worthwhile reading, and to foster a spirit of fellowship among its members. Students pursuing a major in English or English education or pursuing a minor in English or creative writing and who have at least a 3.33 GPA for 12 hours of English, and a 3.0 overall GPA are eligible to apply. The society, along with the department, annually makes an award to the English major with the highest overall GPA.

English Minor

Department of English, 103 Morgan Hall
www.as.ua.edu/english/
English@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in English requires the following 21 semester hours:

Courses	Hours
EN 205 or EN 215.....	3
EN 206, EN 207, EN 208, EN 209,	
EN 210, or EN 249 (or honors equivalents).....	9
EN electives 300 or 400 level.....	9
Total	21

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. EN 200 and EN 430 are not applicable to the minor in English. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Environmental Science

The Environmental Science Program is an interdisciplinary program leading to the bachelor of science degree. The objective of the program is to provide students with a broad interdisciplinary science background focusing on physical geography, environmental geology, and ecology. The variety of courses in both earth and biological sciences allows some choice of concentration within the program. Additional requirements include geographic techniques and statistics.

Environmental Science Major (BS)

Department of Geography, 202 Farrah Hall
www.as.ua.edu/geography
environmentalscience@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree with a major in environmental science must complete all University, college

(see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 120 applicable semester hours. **Admission into the major.** Acceptance into the environmental science major requires an overall GPA of 2.5. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The environmental science major requires successful completion of the following 60 semester hours:

Courses	Hours
BSC 114:115 or BSC 118	4
BSC 116:117 or BSC 120.....	4
BSC 385.....	3
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
GEO 101.....	4
GEO 105.....	4
GY 101.....	4
GY 204.....	4
GY 339, GY 452, GY 453, GY 460, or GY 461.....	3
GY 420 or GY 430.....	3-4
ST 260 or PY 211.....	3

16 hours from the following:

GY elective ¹	3-4
GEO elective ²	3-4
BSC elective ³	6
Specified GY ¹ , GEO ² , or BSC ³ elective.....	1-4
Total	60

Students must earn a total of 16 hours from the following specified earth or biological science courses:

¹GY 320, GY 363, GY 404, GY 409, GY 412, GY 467, GY 472, GY 483, GY 486, or GY 489 (minimum 3 hours).

²GEO 306, GEO 363, GEO 399, GEO 410, GEO 460, or GEO 470 (minimum 3 hours).

³BSC 320, BSC 360, BSC 371, BSC 373, BSC 376, BSC 412, BSC 413, BSC 415, BSC 416, BSC 428, BSC 434, BSC 456, BSC 472, BSC 475, BSC 476, BSC 482, BSC 484, or BSC 490 (minimum 6 hours).

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in environmental science requires the following course outside the major:

Course	Hours
MATH 125 or MATH 145.....	4

Required minor. The environmental science major does not require a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

External Degree Program (EXD)

New College and the College of Continuing Studies
305 Martha Parham Hall
www.exd.ua.edu
exd@as.ua.edu

Admission into the program. Applicants must be 25 years of age or older and have educational goals that can be met through the program. Applicants can be Alabama residents or non-residents and must have a high-school diploma or a minimum score of 510 on the General Educational Development (GED) examination.

Interested students should apply for admission to The University of Alabama and designate external degree as the program type. For more information concerning admissions procedures write The University of Alabama, External Degree Program, Box 870182, Tuscaloosa, AL 35487-0182, call (205) 348-6000, e-mail exd@as.ua.edu, or visit the Web site at www.exd.ua.edu.

Degree requirements. Students earning a bachelor of arts (BA) degree or bachelor of science (BS) degree must complete a minimum of 120 applicable semester hours that include the following elements:

Courses	Hours
Foundations of Adult Learning seminar.....	3
EXD Writing Skills and Strategies.....	3
Humanities*.....	12
Communication skills.....	6
Social sciences*.....	12
Natural sciences*.....	8
Mathematics*.....	3
Depth study.....	30
Senior project.....	8
Electives	35
Total.....	120

*Courses that satisfy the general education requirement will fulfill the humanities, social sciences, natural sciences, and mathematics requirements. Students pursuing a BS degree are required to complete MATH 125 or MATH 145 or higher.

Additional major requirements. The EXD Program differs in purpose, scope, and specificity from degrees designating professional certification. For this reason, no more than 30 semester hours of credit from a professional school may apply toward a degree through the EXD Program.

Upper-level residency. Following completion of the Foundations of Adult Learning Seminar, external degree program students must earn a minimum of 30 semester hours of University of Alabama credit. Except for the required three-day Foundations of Adult Learning Seminar, students do not have to be present on The University of Alabama campus. Residence is fulfilled by working under the guidance of University of Alabama faculty through distance learning.

Foreign Languages and Literature Major (BA)

Department of Modern Languages and Classics
200 B.B. Comer Hall
www/as.ua.edu/mlc/
Modernlanguagesandclassics@as.ua.edu
French@as.ua.edu
german@as.ua.edu
classics@as.ua.edu

Degree and track requirements. Students earning the bachelor of arts (BA) degree with a major in foreign languages and literature must complete all University, college (see pp. 52-54), and major requirements. These include the general education requirement, all major and track requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. See course descriptions for information concerning appropriate placement in French, German, and Latin. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in foreign languages and literature requires the successful completion of 30–33 semester hours in one of the following five tracks:

Classical Civilization Track

Courses	Hours
LA 201 and LA 202 OR GR 201 and GR 202.....	6
CL 222, CL 350, CL 384, CL 385, or CL 386.....	6
CL 345 or CL 375	3
CL 380	3

PHL 201, ARH 351, HY 235, HY 236, or HY 384 or CL, LA, or GR electives*	15
Total	33

*May include LA 101, LA 102, GR 101, and GR 102.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The track in classical civilization requires the successful completion of the following courses:

Courses	Hours
LA 101 and LA 102* OR GR 101 and GR 102*	6

*Or proficiency or placement.

French Track

Courses	Hours
FR 201	3
FR 202	3
FR 321	3
FR 323	3
FR 421	3
FR 331, FR 361, FR 431, or FR 461*	6
FR 341 and FR 351*	6
FR electives 200 level and above.....	6
Total	33

*With approval, 3 hours of topic appropriate FR 470 or FR 480 may substitute.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The track in French requires the successful completion of the following courses:

Courses	Hours
FR 101 and FR 102 (or FR 103)*	4-8

*Or proficiency or placement.

German Track

Courses	Hours
GN 101 and GN 102 (or GN 103).....	4-8
GN 201	3
GN 202	3
GN 361 or GN 362.....	3
GN 371	3
GN 372	3
GN 403 or GN 404.....	3
GN literature ¹	3
GN electives ²	3-7
Total	32

¹ Students must take 3 hours of German literature chosen from the following: GN 250, GN 260, GN 264, GN 265, GN 321, GN 322, GN 323, GN 341, GN 431, or other GN literature course with departmental approval.

²A total of 4 hours in GN 205 and GN 206 may be applied to the 32 required hours in the major.

Greek Track

Courses	Hours
GR 201	3
GR 202	3
GR 301	3
GR 302	3
GR 490	3
CL 345, CL 375, CL 380, or LA 480.....	3
CL 222, CL 384, CL 385, CL 350, PHL 201, ARH 351, or HY 235.....	6
GR or LA electives 200 level or above	6
Total	30

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The track in Greek requires the successful completion of the following courses:

Courses	Hours
GR 101 and GR 102*	6

*Or proficiency or placement.

Latin Track

Courses	Hours
LA 201	3
LA 202	3
LA 301	3
LA 302	3
LA 490	3
CL 345, CL 375, CL 380, or LA 480	3
CL 222, CL 384, CL 385, CL 350, PHL 201, ARH 351, and HY 235	6
LA or GR electives 200 level and above	6
Total	30

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The track in Latin requires the successful completion of the following courses:

Courses	Hours
LA 101 and LA 102*	6

*Or proficiency or placement.

Upper-level residency. For all tracks, a minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Required minor. This major requires the completion of a minor.

Additional major requirements. If students test out of any of the courses required for the major, this does not reduce the total number of credit hours required for the major. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester.

Special opportunities. The classics program offers numerous opportunities for students to learn about the ancient world. Students may participate in the Classics Academy Club, become initiated into Eta Sigma Phi, work as peer mentors for CL 222 (Greek and Roman Mythology), and earn credit during the summer study-abroad program in Greece. In addition, the German program offers numerous opportunities for students to learn about the German-speaking world. Students may participate in the German Club, be eligible for the Delta Phi Alpha honor society, live in the German House, and earn credit studying abroad for a summer, semester, or year.

Credit options. With the exception of heritage language or bilingual individuals, students placed in intermediate level courses or higher can earn placement credit.

French: Except for heritage language or bilingual individuals, students placed in FR 201 or higher and who earn a grade of "C-" or higher in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
FR 201	FR 103 (4 hours)
FR 202	FR 103 and FR 201 (7 hours)
FR 300- or 400-level	FR 103, FR 201, FR 202 (10 hours)

German: Except for heritage language or bilingual individuals, students placed in GN 201 or higher and who earn a grade of "C-" or higher in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
GN 201	GN 103 (4 hours)
GN 202	GN 103 and GN 201 (7 hours)
GN 300- or 400-level	GN 103, GN 201, GN 202 (10 hours)

Latin: Students placed in LA 201 or higher and who earn a grade of "C-" or higher in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
LA 201	LA 102 (3 hours)
LA 202	LA 102 and LA 201 (6 hours)
LA 300- or 400-level	LA 102, LA 201, LA 202 (9 hours)

French Minor

Department of Modern Languages and Classics
200 B.B. Comer Hall
www.as.ua.edu/mlc
Modernlanguagesandclassics@as.ua.edu
French@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in French requires the successful completion of 18 semester hours:

Courses	Hours
FR 201	3
FR 202	3
FR 321 or FR 323	3
FR 421	3
FR electives 300 or 400 level	6
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The French minor requires the successful completion of the following courses:

Courses	Hours
FR 101 and FR 102 (or FR 103)*	4-8

*Or proficiency or placement.

Additional minor requirements. If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Gender and Race Studies (AAST, WS)

104 Manly Hall
www.as.ua.edu/genderandracestudies
grs@as.ua.edu

The Department of Gender and Race Studies offers an undergraduate major in African American studies and minors in African American studies (see p. 60) and women's studies (see p. 101). The major and minor in African American studies are interdisciplinary and both national and transnational. They encourage students to engage in complex issues in unique ways that are often beyond the boundaries of traditional disciplines. The women's studies minor also is interdisciplinary and is designed to provide knowledge of the roles and status of women in historical and contemporary society, to conduct and encourage research and writing by and about women, and to offer skills and information for increasing employment opportunities for women.

General Business (BA or BS)

Culverhouse College of Commerce and Business
10 Bidgood Hall
(205) 348.4537
www.cba.ua.edu

Students completing degree requirements for a major in the College of Arts and Sciences may choose general business as a second major provided they meet all requirements of the University, the College of Arts and

Sciences, and each major to total a minimum of 120 applicable semester hours. See the College of Commerce and Business Administration for specific requirements for the general business major.

The Department of Geography (GY)

The Department of Geography offers majors in environmental science and geography. The major in geography may culminate in either a bachelor of arts degree (BA) or a bachelor of science degree (BS). The department also offers a minor in geography, a minor in geographic information systems, and certificate programs in geographic information systems or regional and urban planning.

Geography Major (BA)

Department of Geography, 202 Farrah Hall
www.as.ua.edu/geography
geography@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in geography must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in geography (BA) requires the successful completion of the following 36 semester hours:

Courses	Hours
GY 101	4
GY 102	4
GY 105	3
GY 110.....	3
GY 204	4
GY concentration*	12-18
GY electives	0-6
Total	36

*Students must earn 12-18 hours from one of the following concentrations:

1. Environment and Natural Resources (minimum of 12 hours): GY 200, GY 317, GY 339, GY 363, GY 402, GY 404, GY 407, GY 409, GY 412, GY 418, GY 452, GY 453, GY 460, GY 467, GY 472, GY 486, or GY 489.**
2. Regional and Urban Planning (minimum of 12 hours): GY 200 and GY 441; and GY 341, GY 358, GY 365, GY 440, GY 452, GY 453, GY 458, GY 460, GY 465, GY 466, or GY 488.**
3. Geographic Information Techniques (minimum of 12 hours): GY 330, GY 420, GY 430, GY 435, GY 436, or GY 438.**
4. Human and Regional Geography (minimum of 18 hours): GY 200, GY 317, GY 341, GY 344, GY 350, GY 351, GY 358, GY 365, GY 377, GY 418, GY 440, GY 444, GY 458, GY 465, GY 466, or GY 488.**

** With approval, topic appropriate GY 470 may be substituted.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. This major does not require ancillary courses.

Required minor. The geography major requires completion of a minor.

Additional major requirements. A maximum of 3 hours of internship or practicum credit can be applied to the major. Each geography course applied to the 36-hour requirement must be completed with a grade of "C-" or higher. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Geography offers certificate programs in geographic information systems (GIS) and regional and urban planning. Additional information is available in the Department of Geography office.

Geography Major (BS)

Department of Geography, 202 Farrah Hall
www.as.ua.edu/geography
geography@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree with a major in geography must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in geography (BS) requires the successful completion of the following 36 semester hours:

Courses	Hours
GY 101	4
GY 102	4
GY 105	3
GY 110.....	3
GY 204	4
GY concentration*	12-18
GY electives	0-6
Total	36

*Students must earn 12-18 hours from one of the following concentrations:

1. Environment and Natural Resources (minimum of 12 hours): GY 200, GY 317, GY 339, GY 363, GY 402, GY 404, GY 407, GY 409, GY 412, GY 418, GY 452, GY 453, GY 460, GY 467, GY 472, GY 486, or GY 489.**
2. Regional and Urban Planning (minimum of 12 hours): GY 200 and GY 441; and GY 341, GY 358, GY 365, GY 440, GY 452, GY 453, GY 458, GY 460, GY 465, GY 466, or GY 488.**
3. Geographic Information Techniques (minimum of 12 hours): GY 330, GY 420, GY 430, GY 435, GY 436, or GY 438.**
4. Human and Regional Geography (minimum of 18 hours): GY 200, GY 317, GY 341, GY 344, GY 350, GY 351, GY 358, GY 365, GY 377, GY 418, GY 440, GY 444, GY 458, GY 465, GY 466, or GY 488.**

** With approval, topic appropriate GY 470 may be substituted.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in geography culminating in a bachelor of science degree requires the successful completion of the following courses outside the major:

Courses	Hours
ST 260, PY 211, or BER 345.....	3
MATH 125 or MATH 145	4

Required minor. The geography major requires completion of a minor.

Additional major requirements. A maximum of 3 hours of internship or practicum credit can be applied to the major. Each geography course applied to the 36-hour requirement must be completed with a grade of "C-" or higher. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Geography offers certificate programs in geographic information systems (GIS) and regional and urban planning. Additional information is available in the Department of Geography office.

Geographic Information Systems Minor (GIS)

Department of Geography, 202 Farrah Hall
www.as.ua.edu/geography
geography@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in geographic information systems requires the successful completion of the following 20 semester hours:

Courses	Hours
GY 204.....	4
GY 330.....	4
GY 420.....	4
GY 430.....	4
GY 436 or GY 438.....	4
Total	20

Upper-level residency. A minimum of 6 semester hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Geography majors are ineligible for this minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Geography Minor

Department of Geography, 202 Farrah Hall
www.as.ua.edu/geography
geography@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in geography requires the successful completion off the following 18 semester hours:

Courses	Hours
GY 101 or GY 102.....	4
GY 105 or GY 110.....	3
GY electives 300 or 400 level.....	9
GY electives.....	2
Total	18

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Internship or practicum credit hours cannot be applied to the minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Geological Sciences

The Department of Geological Sciences offers undergraduate majors leading to the bachelor of arts (BA), bachelor of science (BS), and bachelor of science in geology (BSG) degrees, as well as a double major in marine science/geological science. An undergraduate minor is also offered. Honors

programs are available for the bachelor of science and bachelor of science in geology degrees.

Geology Major (BA)

Department of Geological Sciences, 202 Bevill Building
www.geo.ua.edu
geology@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in geology must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in geology culminating in a BA degree requires successful completion of the following 30 semester hours:

Courses	Hours
GEO 101.....	.4
GEO 102.....	.4
GEO electives 300 or 400 level.....	12
GEO electives.....	10
Total	30

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary courses. This major does not require ancillary courses.

Required minor. The geology major (BA) requires completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department supports a Geology Club in which students participate in educational, social, and community service activities, often including field trips. Additionally, undergraduates are encouraged to conduct laboratory and field research under the direction of faculty.

Geology Major (BS)

Department of Geological Sciences, 202 Bevill Building
www.geo.ua.edu
geology@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree must complete all University, college (see pp. 52-53), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total 128 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in geology culminating in the BS degree requires successful completion of the following 36 semester hours:

Courses	Hours
GEO 101.....	.4
GEO 102.....	.4

GEO 210.....	4
GEO 314.....	4
GEO 365.....	3
GEO 367.....	4
GEO 495.....	6
GEO electives.....	7
Total	36

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. This major requires successful completion of the following courses outside the major:

Courses	Hours
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 223.....	4
PH 105 or PH 125.....	4
PH 106 or PH 126.....	4
MATH 125 or MATH 145.....	4
MATH 126 or MATH 146.....	4
MATH 227 or MATH 247.....	4
MATH 238.....	3

Required minor. The geology major (BS) requires completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Interested students pursuing a major in geology (BS or BSG) can apply for admission to the geological sciences honors program after earning 13 hours of geological science courses. In addition to meeting the major requirements for BS or BSG, participants must maintain a 3.3 GPA for all geological science courses and 3.0 overall GPA. Honors students earn a grade of "Pass" or "Fail" in the honors seminars (GEO 435 and GEO 436). They must also complete 6 hours of honors research (GEO 499) and present the results in the honors seminar. Students should also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member of the Department of Geological Sciences.

Geology Major (BSG)

Department of Geological Sciences, 202 Bevill Building
www.geo.ua.edu
geology@as.ua.edu

Degree requirements. Students earning the bachelor of science in geology degree (BSG) must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total 128 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in geology culminating in the bachelor of science in geology degree requires successful completion of the following 45 semester hours:

Courses	Hours
GEO 101.....	4
GEO 102.....	4
GEO 210.....	4
GEO 314.....	4
GEO 365.....	3
GEO 367.....	4

GEO 495.....	6
GEO 355, GEO 369, or GEO 470.....	6
GEO electives.....	10
Total	45

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. This major requires successful completion of the following courses outside the major:

Courses	Hours
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
PH 101, PH 105, or PH 125.....	4
PH 102, PH 106, or PH 126.....	4
MATH 125 or MATH 145.....	4
MATH 126 or MATH 146.....	4

Required minor. The major in geology for the BSG degree does not require a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Interested students pursuing a major in geology (BS or BSG) can apply for admission to the geological sciences honors program after earning 13 hours of geological science courses. In addition to meeting the major requirements for BS or BSG, participants must maintain a 3.3 GPA for all geological science courses and 3.0 overall GPA. Honors students earn a grade of "Pass" or "Fail" in the honors seminars (GEO 435 and GEO 436). They must also complete 6 hours of honors research (GEO 499) and present the results in the honors seminar. Students should also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member of the Department of Geological Sciences.

Geology Minor

Department of Geological Sciences, 202 Bevill Building
www.geo.ua.edu
geology@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in geology requires a minimum of 18 semester hours including the following:

Courses	Hours
GEO 101.....	4
GEO 102.....	4
GEO electives 300 or 400 level.....	6
GEO electives.....	4
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be completed on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

German Minor

Department of Modern Languages and Classics
 200 B.B. Comer Hall
www.as.ua.edu/mlc
Modernlanguagesandclassics@as.ua.edu
German@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in German requires the successful completion of the following 22 semester hours:

Courses	Hours
GN 101 and GN 102 (or GN 103).....	4-8
GN 201.....	3
GN 202.....	3
GN electives 300 or 400 level.....	6
GN electives.....	2-6
Total	22

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Greek Minor

Department of Modern Languages and Classics
 200 B.B. Comer Hall
www.as.ua.edu/mlc
Modernlanguagesandclassics@as.ua.edu
Classics@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Greek requires the successful completion of the following 21 semester hours:

Courses	Hours
GR 201.....	3
GR 202.....	3
GR 301.....	3
GR 302.....	3
GR, LA, CL electives 200 level or above.....	9
Total	21

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The Greek minor requires the successful completion of the following courses:

Courses	Hours
GR101 and GR 102*.....	6

*Or proficiency or placement.

Additional minor requirements. If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Health Professional Degree Option

Medical schools and other health professional schools encourage students to complete undergraduate degree programs before entering a professional school. In some instances, however, a student may enter a medical, dental, pharmacy, or optometry school prior to the completion of an undergraduate degree and may qualify to be awarded a bachelor of science degree from The University of Alabama after successful completion of one academic year of study in the health professional school. To qualify for this degree, the student must complete, in courses approved for undergraduate degrees in the College of Arts and Sciences, a minimum of 90 semester hours including at least 30 hours taken in residence and all requirements for graduation other than those related to a major or minor. Furthermore, the required academic year of study in the professional school must be completed within one year of undergraduate study at The University of Alabama, and application for the combined undergraduate/professional degree must be made prior to completion of undergraduate study.

The Department of History (HY)

The Department of History offers a major and a minor in history. It also offers departmental honors to those who qualify for this program.

History Major (BA)

Department of History, 202 ten Hoor Hall
www.as.ua.edu/history
history@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in history must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in history requires successful completion of the following 36 semester hours:

Courses	Hours
HY 101 or HY 105 (or HY 110).....	.3
HY 102 or HY 106.....	.3
HY 203 or HY 205.....	.3
HY 204 or HY 206.....	.3
HY 430 ².....	.3
Field requirement ³.....	.9
HY electives.....	12
Total	36

¹HY 101 or HY 105 is preferred, but HY 110 can substitute.

²A minimum grade of "C" is required to receive credit for HY 430.

³Fields: A minimum of 3 hours from each of the following fields must be completed for a total of 9 hours.

- United States History: HY 225, HY 226, HY 295, HY 311, HY 312, HY 313, HY 314, HY 315, HY 316, HY 318, HY 319, HY 320, HY 323, HY 324, HY 325, HY 326, HY 330, HY 337, HY 341, HY 408, HY 409, HY 411, HY 412, HY 413, HY 416, HY 417, HY 421, HY 422, HY 423, HY 424, HY 425, HY 427, HY 428, HY 429, HY 432, or HY 480. Depending on the content, HY 300 and HY 400 can also fulfill this requirement.
- European History: HY 235, HY 236, HY 247, HY 248, HY 321, HY 349, HY 353, HY 357, HY 358, HY 361, HY 362, HY 365, HY 385, HY 386, HY 390, HY 393, HY 442, HY 443, HY 444, HY 446, HY 447, HY 448, HY 451, HY 455, HY 481, HY 482, HY 490, HY 491, HY 493, HY 494, or HY 495. Depending on the content, HY 300 and HY 400 can also fulfill this requirement.

3. African, Asian, or Latin American History: HY 237, HY 238, HY 243, HY 244, HY 306, HY 309, HY 310, HY 377, HY 384, HY 401, HY 402, HY 403, HY 404, HY 405, HY 471, HY 474, HY 475, or HY 476. Depending on the content, HY 300 and HY 400 can also fulfill this requirement.

Upper-level residency. A minimum of 18 semester hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. The history major does not require ancillary courses. However, it is recommended that students, especially those considering graduate work in history, study at least one foreign language.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The department sponsors a history club that is open to all students. It also sponsors a chapter of Phi Alpha Theta, the history honorary society. Phi Alpha Theta is open to both majors and non-majors who have junior standing or above, have completed at least 12 hours in history with a GPA of 3.3 or above, and have an overall GPA of 3.0 or above.

Honors program. The history honors program is open to history majors who have a 3.0 overall GPA, a 3.3 GPA in history, and at least 12 hours of history courses completed. The program requires 9 hours of honors work, including HY 399 History Honors Colloquium (usually taken in the junior year) and a 6-hour thesis (HY 498 and HY 499) completed (usually in the senior year) under the direction of a tenured or tenure-track member of the department. Graduation with honors in history requires a 3.0 overall GPA, a 3.3 GPA in history, and satisfactory completion of a thesis judged to merit an honors designation.

History Minor

Department of History, 202 ten Hoor Hall

www.as.ua.edu/history

history@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in history requires successful completion of the following 21 semester hours:

Courses	Hours
HY 101 or HY 105 (or HY 110*).....	3
HY 102 or HY 106.....	3
HY electives 300 or 400 level.....	9
HY electives.....	6
Total	21

*HY 101 or HY 105 is preferred, but HY 110 can substitute.

Upper-level residency. A minimum of 9 hours of 300- and 400-level courses in this minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Interdisciplinary Environmental Studies Minor

New College and Department of Geography

Department of Geography, 202 Farrah Hall
www.as.ua.edu/geography
geography@as.ua.edu

New College
201 Lloyd Hall
www.as.ua.edu/nc
newcollege@as.ua.edu

The objective of the interdisciplinary environmental studies minor is to provide undergraduates with interdisciplinary training in environmental studies. Drawing on the humanities, the social sciences, and the natural sciences, this minor acquaints students with current environmental problems and the tools of analysis to identify causes and solutions.

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in interdisciplinary environmental studies requires successful completion of a minimum of 17 semester hours including the following:

Courses	Hours
NEW 215 or GY 452.....	3–4
NEW 230	4
Electives*	10–11
Total	18

*Students must earn 10–11 hours chosen from the following courses: AMS 306, BSC 305, BSC 385, BSC 482, EC 480, GEO 105, GEO 363, GEO 401, GEO 460, GY 418, GY 453, GY 467, NEW 226, NEW 310, or NEW 490.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

International Studies Major (BA)

Department of Political Science, 318 ten Hoor Hall

www.as.ua.edu/psc

internationalstudies@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in international studies must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in international studies requires the successful completion of the following 36 semester hours:

Courses	Hours
ANT 102.....	3
EC 111.....	3
GY 105.....	3
HY 102 or HY 106.....	3

PSC 204.....	3	CIP 200, GY 155, GY 377, GY 453, GY 467, HY 326, HY 481, HY 482, IHP 105, IHP 155, PSC 203, PSC 413, PSC 414, PSC 433, PSC 434, PSC 435, PSC 441, PSC 442, PSC 443, PSC 444, PSC 445, and PSC 446.
Field requirement ¹ 300 or 400 level.....	6	2. International Business: EC 430, EC 431, EC 440, EC 450, EC 453, FI 431, FI 441, IBA 350, IBA 351, IBA 459, IBA 460, MGT 459, MKT 455, or MKT 460.
Field requirement ¹	6	3. Peace and Conflict Studies: HY 341, HY 357, HY 358, HY 413, HY 480, HY 481, HY 482, EC 444, PSC 441, PSC 442, or PSC 446.
Concentration requirement ² 300 or 400 level.....	3	
Concentration requirement ²	6	
Total.....	36	

¹Fields: Students must earn a minimum of 12 hours chosen from one of the following fields. A maximum of 6 hours can be in a single department. A minimum of 6 hours must be at the 300 or 400 level. PSC 321 and PSC 422 can be used to satisfy field requirements provided the topic relates to the specific field and the program director approves.

1. International Relations: ANT 210, ANT 275, ANT 311, ANT 402, ANT 418, ANT 436, ANT 440, CIP 200, GY 155, GY 377, GY 453, GY 467, HY 326, HY 481, HY 482, IHP 105, IHP 155, PSC 203, PSC 413, PSC 414, PSC 433, PSC 434, PSC 435, PSC 441, PSC 442, PSC 443, PSC 444, PSC 445, and PSC 446.

2. International Business: EC 430, EC 431, EC 440, EC 450, EC 453, FI 431, FI 441, IBA 350, IBA 351, IBA 459, IBA 460, MGT 459, MKT 455, or MKT 460.

3. Peace and Conflict Studies: HY 341, HY 357, HY 358, HY 413, HY 480, HY 481, HY 482, EC 444, PSC 441, PSC 442, or PSC 446.

²Concentrations: Students must earn a minimum of 9 hours chosen from one of the following areas (or methods specialization for peace and conflict studies). A maximum of 6 hours can be in a single department. A minimum of 3 hours must be at the 300 or 400 level. PSC 321 and PSC 422 can be used to satisfy concentration requirements provided the topic relates to the specific field and the program director approves.

1. Asia: ANT 415, ANT 417, GY 347, HY 243, HY 244, HY 306, HY 309, HY 310, HY 401, HY 402, HY 403, HY 404, HY 405, REL 208, REL 210, or REL 220. Language minor: Chinese or Japanese.

2. Latin America: ANT 408, ANT 409, ANT 413, EC 442, GY 343, GY 345, HY 237, HY 238, HY 474, HY 475, or PSC 332. Language minor: Spanish.

3. Middle East and Africa: ANT 414, ANT 430, CL 384, GY 444, HY 384, or REL 224. Language minor: French or student-designed minor in Arabic language and culture.

4. Russia and Eastern Europe: HY 361, HY 362, PSC 333, PSC 342, PSC 433, PSC 436, RUS 211, RUS 251, or RUS 252. Language minor: Russian.

5. Western Europe: ANT 412, CL 385, CL 386, GN 260, HY 247, HY 248, HY 321, HY 349, HY 353, HY 357, HY 358, HY 365, HY 385, HY 386, HY 393, HY 442, HY 443, HY 444, HY 446, HY 447, HY 451, HY 455, HY 490. HY 491, HY 493, HY 494, HY 495, or PSC 334. Language minor: French, German, Italian, or Spanish.

6. Methods Specialization (peace and conflict studies only): EC 471, HY 430, PSC 202, PSC 421, ST 260, ST 310, ST 450, or ST 451. Language minor: Any foreign language minor.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. This major does not require ancillary courses. However, courses in the field and area requirements may have prerequisites.

Required minor. Students must minor in a foreign language that is spoken in the area of the world chosen from the area requirement. A minor in any language will meet this requirement for the peace and conflict studies field.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Students are encouraged to study abroad while fulfilling the requirements of the international studies program. For more information, contact the Capstone International Center.

International Studies Minor

Department of Political Science, 318 ten Hoor Hall

www.as.ua.edu/psc

internationalstudies@as.ua.edu

Admission into the minor. Students are expected to formally declare a minor. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA and all work attempted applicable to the minor throughout the entire higher education career.

Minor courses. The minor in international studies requires the successful completion of the following 18 semester hours:

Courses	Hours
ANT 102, EC 111, GY 105, HY 102 (or HY 106), or PSC 204.....	6
Field requirement* 300 or 400 level.....	6
Field requirement*	6
Total	18

*Fields: Students must earn a minimum of 12 hours chosen from one of the following fields:

1. International Relations: ANT 210, ANT 275, ANT 311, ANT 402, ANT 418, ANT 436, ANT 440,

3 CIP 200, GY 155, GY 377, GY 453, GY 467, HY 326, HY 481, HY 482, IHP 105, IHP 155, PSC 203, PSC 413, PSC 414, PSC 433, PSC 434, PSC 435, PSC 441, PSC 442, PSC 443, PSC 444, PSC 445, and PSC 446.

2. International Business: EC 430, EC 431, EC 440, EC 450, EC 453, FI 431, FI 441, IBA 350, IBA 351, IBA 459, IBA 460, MGT 459, MKT 455, or MKT 460.

3. Peace and Conflict Studies: HY 341, HY 357, HY 358, HY 413, HY 480, HY 481, HY 482, EC 444, PSC 441, PSC 442, or PSC 446.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. If necessary, students may consult with the minor department academic advisor for questions concerning minor requirements.

Italian Minor

Department of Modern Languages and Classics

200 B.B. Comer Hall

www.as.ua.edu/mlc

Italian@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Italian requires the successful completion of the following 20 semester hours:

Courses	Hours
IT 101.....	.4
IT 102.....	.4
IT 201.....	.3
IT 202.....	.3
IT electives 300 or 400 level.....	.6
Total .....	.20

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus or in UA-sponsored programs of study abroad.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Japanese Minor

Department of Modern Languages and Classics

200 B.B. Comer Hall

www.as.ua.edu/mlc

Japanese@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Japanese requires successful completion of the following 21 semester hours:

Courses	Hours
JA 201.....	.3
JA 202.....	.3
JA 301 .....	.3
JA 302.....	.3
JA 410.....	.3

*Fields: Students must earn a minimum of 12 hours chosen from one of the following fields:

1. International Relations: ANT 210, ANT 275, ANT 311, ANT 402, ANT 418, ANT 436, ANT 440,

JA 411	3
JA 356 or JA 357 (or JA 390).....	3
Total	21

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The minor in Japanese requires the successful completion of the following courses:

Courses	Hours
JA 101	4
JA 102.....	4

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Judaic Studies Minor

Department of Religious Studies
212 Manly Hall
www.as.ua.edu/rel
religiousstudies@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Judaic studies requires the successful completion of the following 21 semester hours:

Courses	Hours
REL 100 or REL 105	3
REL 110	3
REL 224	3
REL 238	3
REL 223, REL 332, REL 347, or REL 410.....	6
REL 490*	3
Total	21

*REL 490 is offered only in the spring semester. Students are expected to enroll during the senior year, but can enroll as early as the junior year.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students majoring in religious studies may not apply the same religious studies courses toward both the religious studies major and the Judaic studies minor. They must earn 21 hours of REL courses for the minor and 33 hours of REL courses for the major. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Latin Minor

Department of Modern Languages and Classics
200 B.B. Comer Hall
www.as.ua.edu/mlc
Modernlanguagesandclassics@as.ua.edu
Classics@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for

completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Latin requires the successful completion of the following 21 semester hours:

Courses	Hours
LA 201.....	3
LA 202.....	3
LA 301	3
LA 302	3
LA, GR, CL electives 200 level or above.....	9
Total	21

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The Latin minor requires the successful completion of the following courses:

Courses	Hours
LA 101 and LA 102*	6

*Or proficiency or placement.

Additional minor requirements. If students test out of any of the courses required for the minor, this does not reduce the total number of credit hours required for the minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Marine Science Program

The College of Arts and Sciences offers interdisciplinary marine science double major programs (marine science/biology, marine science/chemistry, and marine science/geology) culminating in the bachelor of science (BS) degree. These double-major curricula give the student a focused exposure to include general education requirements, single disciplinary requirements, and the interdisciplinary courses that represent studies in the field of marine science. A minor in marine science is available to students whose major fields are biology, chemistry, or geology.

Marine Science/Biology Major (BS)

Department of Biological Sciences
1324 Science and Engineering Complex
www.as.ua.edu/marinescience
marinescience@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree in marine science/biology must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following double major requirements, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare both majors formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major departments, students should complete the "Declaration of Major" forms.

Grade point average. A 2.0 grade point average in each major is required for completion of the degree. Both major GPAs are calculated based on all courses applicable to each major that the student has attempted at UA.

Major courses. The majors in marine science/biology require the successful completion of the following courses:

Courses	Hours
BSC 114:115 or BSC 118	4
BSC 116:117 or BSC 120	4
BSC 300	3
BSC 315	3
BSC 385	3
BSC 450 or BSC 483.....	3
BSC electives above 250 ¹	12

CH 101 or CH 117	4
CH 102 or CH 118	4
GEO 101.....	4
GEO 102 or GEO 105	4
MS 304	4
MS 306	4
MS 448	4
MS elective 300 or 400 level ¹	4
PH 101 (or PH 105 or PH 125).....	4
PH 102 (or PH 106 or PH 126).....	4
Total	72

¹Other BSC courses numbered 250 and above including two laboratory courses from the following list of laboratory courses: BSC 310, BSC 313, BSC 320, BSC 350, BSC 360, BSC 371, BSC 373, BSC 376, BSC 386, BSC 390, BSC 396, BSC 398, BSC 400, BSC 413, BSC 414, BSC 416, BSC 425, BSC 428, BSC 432, BSC 434, BSC 436, BSC 439, BSC 442, BSC 457, BSC 460, BSC 464, BSC 469, BSC 472, BSC 475, BSC 476, BSC 489, BSC 490, MS 306, MS 408, MS 411, MS 419, MS 452, and MS 453. Also see "Additional major requirements."

²Consult the marine science coordinator for appropriate MS electives.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed in the major GPA. The major in marine science/biology requires the successful completion of the following courses outside the major:

Courses	Hours
CH 231	3
CH 232:237	5
MATH 125 or MATH 145	4
ST 260	3

Required minor. Marine science/biology does not require a minor.

Additional major requirements. Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. The biology department offers a number of courses designed to enrich the learning experience of students beyond the traditional classroom setting. These courses include BSC 391, BSC 396, BSC 398, BSC 403, BSC 404, BSC 407, and MS 398. Beyond specific restrictions listed for each course, a total of 4 hours from this group may be applied to the requirements of the biology major or minor. An additional 4 hours may be applied as electives to the requirement for 120 hours for the degree. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Marine Science/Chemistry Major (BS)

Department of Biological Sciences,
1324 Science and Engineering Complex
www.as.ua.edu/marinescience
marinescience@as.ua.edu

Department of Chemistry, 206 Shelby Hall
www.bama.ua.edu/~chem
chemistry@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree in marine science/chemistry must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following double major requirements, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare both majors formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major departments, students should complete the "Declaration of Major" forms.

Grade point average. A 2.0 grade point average in each major is required for completion of the degree. Both major GPAs are calculated based on all courses applicable to each major that the student has attempted at UA.

Major courses. The major in marine science/chemistry requires the successful completion of the following courses.

Courses	Hours
BSC 114:115 or BSC 118.....	4
BSC 116:117 or BSC 120.....	4
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 223.....	4
CH 231.....	3
CH 232:237.....	5
CH 338.....	2
CH 340:343.....	4
CH 461.....	3
CH 462.....	3
CH 463.....	3
GEO 101.....	4
GEO 102 or GEO 105.....	4
PH 101 (or PH 105 or PH 125).....	4
PH 102 (or PH 106 or PH 126).....	4
MS 304.....	4
MS 306.....	4
MS 448.....	4
MS elective 300 or 400 level*.....	4
Total.....	75

*Consult the marine science coordinator for appropriate MS electives.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed in the major GPA. The majors in marine science/chemistry require the successful completion of the following courses outside the major:

Courses	Hours
MATH 125 or MATH 145.....	4
ST 260.....	3

Required minor. Marine science/chemistry does not require a minor. **Additional major requirements.** Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Marine Science/Geology Major (BS)

Department of Biological Sciences,
1324 Science and Engineering Complex
www.as.ua.edu/marinescience
marinescience@as.ua.edu

Department of Geological Sciences
202 Bevill Building
www.geo.ua.edu
geology@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree in marine science/geology must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following double major requirements, and sufficient other credits to total 128 applicable semester hours.

Admission into the major. Students are expected to declare both majors formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major departments, students should complete the "Declaration of Major" forms.

Grade point average. A 2.0 grade point average in each major is required for completion of the degree. Both major GPAs are calculated based on all courses applicable to each major that the student has attempted at UA.

Major courses. The major in marine science/geology requires the successful completion of the following courses:

Courses	Hours
BSC 114:115 or BSC 118.....	4
BSC 116:117 or BSC 120.....	4
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
GEO 101.....	4
GEO 102.....	4
GEO 210.....	4
GEO 314.....	4
GEO 365.....	3
GEO 367.....	4
GEO 495.....	6
GEO 355, GEO 369, or GEO 470.....	6
GEO electives.....	6
MS 304.....	4
MS 306.....	4
MS 448.....	4
MS elective 300 or 400 level*.....	4
PH 101 (or PH 105 or PH 125).....	4
PH 102 (or PH 106 or PH 126).....	4
Total	81

*Consult the marine science coordinator for appropriate MS electives.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in each major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed in the major GPA. The major in marine science/geology requires the successful completion of the following courses outside the major:

Courses	Hours
MATH 125 or MATH 145.....	4
MATH 126 or MATH 146.....	4
ST 260.....	3

Required minor. Marine science/geology does not require a minor.

Additional major requirements. Students are not permitted to count the same required major courses toward completion of a second major or minor. Students may count required ancillary courses for one major toward the requirements of another major. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

Marine Science Minor

Department of Biological Sciences, 319 Biology Building
www.as.ua.edu/marinescience
marinescience@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in marine science requires the successful completion of the following 22 semester hours:

Courses	Hours
BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120.....	
BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120.....	
OR GEO 101 and GEO 102 (or GEO 105).....	8

MS 306, MS 408, MS 448, GEO 355, GEO 367, or GEO 453.....	14
Total	22

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. The minor does not require ancillary courses.

Additional minor requirements. Students are not permitted to count the same required minor course toward completion of a major or second minor. Students may count required ancillary courses toward the requirements of another major. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. During the summer semester, a large suite of marine science courses is offered at the Dauphin Island campus of the Alabama Marine Environmental Sciences Consortium.

The Department of Mathematics (MATH)

The Department of Mathematics offers a major in mathematics that culminates in a bachelor of science (BS) degree. The department also offers minors in mathematics and mathematical statistics, as well as mathematics education in the College of Education.

Mathematics Major (BS)

Department of Mathematics, 345 Gordon Palmer Hall
www.as.ua.edu/math
mathematics@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree with a major in mathematics must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in mathematics requires the successful completion of 36–37 semester hours, including the core mathematics courses, a specific track, and ancillary courses.

Core Mathematics Courses

The following courses must be completed by all mathematics majors:

Courses	Hours
MATH 125 or MATH 145	4
MATH 126 or MATH 146	4
MATH 227 or MATH 247	4
MATH 237	3
MATH 238	3
MATH 301	3
Total	21

Pure Mathematics Track

Core mathematics courses.....	21
MATH 470.....	3
MATH 485.....	3
MATH 486.....	3
MATH 371, MATH 465, MATH 471, MATH 487, or MATH 499.....	6
Total	36

Applied Mathematics—Scientific Computation Track

Courses	Hours
Core mathematics courses.....	21
MATH 300.....	3
MATH 310.....	3
MATH 410.....	3
MATH 343 or MATH 441.....	3
MATH 420, MATH 421, MATH 486, or MATH 499.....	3
Total	36

Applied Mathematics—Classical Track

Courses	Hours
Core mathematics courses.....	21
MATH 300.....	3
MATH 343.....	3
MATH 441.....	3
MATH 485.....	3
MATH 310, MATH 410, MATH 442, MATH 486, OR MATH 499.....	3
Total	36

Applied Mathematics—Optimization Track

Courses	Hours
Core mathematics courses.....	21
MATH 300.....	3
MATH 355.....	3
MATH 410.....	3
MATH 419, MATH 420, OR MATH 421.....	6
Total	36

Mathematical Statistics Track

Courses	Hours
Core mathematics courses.....	21
MATH 300.....	3
MATH 355.....	3
MATH 451.....	3
MATH 452.....	3
MATH 422, MATH 457, MATH 486, MATH 499, ST 450, ST 451, ST 465, OR ST 475.....	3
Total	36

Mathematics Education Track

This track should only be followed by students planning to enter the teaching profession.

Courses	Hours
Core mathematics courses.....	21
MATH 355.....	3
MATH 403.....	3
MATH 404.....	1
MATH 405.....	3
MATH 470.....	3
MATH 486.....	3
Total	37

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in mathematics for all tracks requires the successful completion of the following courses outside the major:

Courses	Hours
CS 150.....	2
CS 250 or ST 260.....	2-3

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Required minor. The mathematics major requires the completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. Mathematics majors can complete a second major in computer science, electrical engineering, economics, or finance,

among others. On campus employment as a math tutor in the Mathematics Technology Learning Center is available to qualified undergraduate mathematics majors. Research experiences are possible for advanced undergraduate students. The University of Alabama also has a chapter of Pi Mu Epsilon, a national mathematics honor society. The Department of Mathematics participates in the University Scholars Program that allows highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master's and bachelor's degrees. Students usually apply for admission prior to the junior or senior year. For more information about the University Scholars Program, visit www.graduate.ua.edu or consult the University of Alabama Graduate Catalog.

Mathematics Minor

Department of Mathematics, 345 Gordon Palmer Hall
www.as.ua.edu/math
mathematics@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in mathematical statistics requires successful completion of the following 21 semester hours:

Courses	Hours
MATH 125 or MATH 145.....	4
MATH 126 or MATH 146.....	4
MATH electives 200 level and above.....	6
MATH electives 300 and 400 level.....	6
Total	20

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Mathematical Statistics Minor

Department of Mathematics, 345 Gordon Palmer Hall
www.as.ua.edu/math
mathematics@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in mathematical statistics requires successful completion of the following 21 semester hours:

Courses	Hours
MATH 125 or MATH 145.....	4
MATH 126 or MATH 146.....	4
MATH 227 or MATH 247.....	4
MATH 355.....	3
MATH 451.....	3
MATH 237, MATH 257, or MATH 452.....	3
Total	21

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements.

However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Mathematics Education Minor

College of Education and Department of Mathematics

Department of Mathematics, 345 Gordon Palmer Hall
www.as.ua.edu/math
mathematics@as.ua.edu

College of Education, 104 Carmichael Hall
www.education.ua.edu

A minor in mathematics education is available to students pursuing the mathematics major (mathematics education track). The mathematics education major does not lead to a teaching certification. Successful completion of the minor provides foundation coursework for admission to the alternative certification program in the College of Education that leads to master's level teaching certification in secondary education.

Enrollment in the mathematics education minor is limited and requires students to take courses in a specified sequence. In addition, students must complete requirements for the Teacher Education Program (TEP) during the second semester of the junior year. These requirements include an overall GPA of 2.75, a 2.5 GPA in the teaching field, and a passing score on the Alabama Prospective Teacher Testing Program (APTTP). Information about the APTTP can be found on the Alabama Department of Education Web site at <http://www.alsde.edu>. Students may register for the APTTP online at <http://www.act.org/alabamaptpp>.

Admission into the minor. To be eligible for the mathematics education minor, a student must major in mathematics (mathematics education track). Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in mathematics education requires the successful completion of the following 20 semester hours:

Courses	Hours
EDU 200.....	1
SPE 300.....	3
BEP 305.....	3
BEF 362.....	3
CSE 390.....	3
CSE 401.....	3
CSE 406*.....	3
CSE 493.....	1
Total	20

*CSE 406 requires admission to the Teacher Education Program (TEP).

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Microbiology Major (BMB)

Department of Biological Sciences,
 1324 Science and Engineering Complex
www.as.ua.edu/biology
microbiology@as.ua.edu

Degree requirements. Students earning the bachelor of science in microbiology (BMB) degree must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the

general education requirements, the following major requirements, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form. The department recommends that students declare a microbiology major as soon as possible.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in microbiology requires the successful completion of the following 44 semester hours:

Courses	Hours
BSC 114:115 or BSC 118.....	4
BSC 116:117 or BSC 120.....	4
BSC 310.....	5
BSC 311.....	3
BSC 313.....	3
BSC 439.....	3
BSC 450.....	3
BSC 451.....	3
BSC electives 300 or 400 level*.....	16
Total	44

*Other BSC courses must be selected from the following: BSC 390, BSC 391, BSC 398, BSC 431, BSC 432, BSC 433, BSC 435, BSC 436, BSC 444, BSC 456, BSC 457, BSC 464, BSC 472, BSC 496, and BSC 497. These hours must include two laboratories to be selected from BSC 390, BSC 398, BSC 432, BSC 436, BSC 457, BSC 464, and BSC 472.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in microbiology requires the successful completion of the following courses outside the major:

Courses	Hours
CH 101 or CH 117.....	4
CH 102 or CH 118.....	4
CH 223.....	4
CH 231.....	3
CH 232:237.....	5
MATH 125 or MATH 145.....	4
PH 101, PH 105, or PH 125.....	4
PH 102, PH 106, or PH 126.....	4

Required minor. The microbiology major does not require a minor.

Additional major requirements. Departmental limits on credit for enrichment courses apply to the requirements for the microbiology major and minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Biological Sciences Honors Program is available to students majoring in either biology or microbiology after the completion of 16 hours of BSC courses with a GPA of 3.4 in BSC courses and overall. Admission into the program requires the approval of the Honors Program Committee and acceptance of the student by primary advisors and co-advisors. Requirements for the program include 4–8 hours of BSC 390 Honors Thesis Research; an acceptable honors thesis; attendance in BSC 407 Honors Seminar in Biological Sciences; completion of the advanced portion of the Graduate Record Examination; and maintenance of a 3.4 GPA in biological science courses and a 3.4 overall GPA. Additional details are available in the office of the Department of Biological Sciences.

The Department of Biological Sciences also participates in the University Scholars Program, which allows highly motivated students to pursue closely integrated undergraduate and graduate programs that may lead to the simultaneous completion of requirements for both master's and bachelor's degrees. Students usually apply for admission prior to their junior or senior year. For more information about the University Scholars Program, visit www.graduate.ua.edu or consult the University of Alabama graduate catalog.

Microbiology Minor

Department of Biological Sciences,
1324 Science and Engineering Complex
www.as.ua.edu/biology
microbiology@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in microbiology requires the successful completion of the following 20 semester hours:

Courses	Hours
BSC 310.....	5
BSC 311.....	3
BSC 313.....	3
BSC 431.....	3
BSC 450.....	3
BSC 451.....	3
Total	20

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not specify ancillary courses, but prerequisites for required courses include BSC 114:115 or BSC 118; BSC 116:117 or BSC 120; CH 232 or permission of the instructor.

Additional minor requirements. Departmental limits on credit for enrichment courses apply to the requirements for the microbiology major and minor. Students are not permitted to count the same required minor courses toward completion of a major or second minor. Students may count required ancillary courses toward other requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Modern Languages and Classics

200 B.B. Comer Hall
www.as.ua.edu/mlc
Modernlanguagesandclassics@as.ua.edu

The Department of Modern Languages and Classics offers two majors leading to the bachelor of arts (BA) degree. The majors are Spanish and foreign languages and literature. The major in foreign languages and literature offers five tracks: classical civilization, French, German, Latin, and Greek. Also offered are minors in Chinese, French, German, Greek, Italian, Japanese, Latin, Russian, and Spanish. The Department of Modern Languages and Classics also houses the Critical Languages Center. Students pursuing majors or minors in a language are strongly encouraged to take advantage of study abroad opportunities.

The School of Music

The School of Music offers two degrees: the bachelor of music (BM), which is the professional degree, and the bachelor of arts (BA) with a major in music. Students can also earn a BA with an arts administration concentration. The University of Alabama also offers a program in music education. For more information, see the College of Education section.

Bachelor of Music

The bachelor of music (BM) offers majors in performance, composition, theory, and music therapy.

Music Performance Major (BM)

School of Music, 175 Moody Music Building
www.as.ua.edu/music
music@as.ua.edu

Degree requirements. Students earning the bachelor of music (BM) degree with a major in performance must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 131 applicable semester hours.

Admission into the major. Enrollment in applied music courses and enrollment in music degree programs are contingent upon successful audition and periodic evaluation of progress. Students are encouraged to contact the School of Music to schedule auditions well in advance of registration. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in performance culminates in a bachelor of music degree and requires successful completion of one of the following six tracks:

Piano Track

Courses	Hours
MUS 115.....	4
MUS 117.....	4
MUS 215.....	4
MUS 217.....	4
MUS 240.....	2
MUS 250.....	3
MUS 251.....	3
MUS 252.....	3
MUS 303 or MUS 304.....	3
MUS 303, MUS 304, MUS 403, MUS 418, or MUS 426.....	3
MUS 307.....	3
MUS 323.....	3
MUS 335.....	2
MUS 351.....	2
MUS 406.....	2
MUS 471.....	2
MUS 472.....	2
MUS electives 300 or 400 level.....	4
MUA 010 (five semesters).....	0
MUA 171 (four semesters).....	12
MUA 199.....	0
MUA 371 (four semesters).....	10
MUA secondary (four semesters) ¹	4
MUA 166 (two semesters).....	2
MUA ensembles (six semesters) ²	6
MUA 399.....	1
MUA 499.....	1
Total	89

¹Four semesters of secondary applied music credit must be in voice or a single instrument chosen from: MUA 270, MUA 272, MUA 273, MUA 274, MUA 275, MUA 276, MUA 277, MUA 278, MUA 279, MUA 280, MUA 281, MUA 282, MUA 283, MUA 284, MUA 285, MUA 286, MUA 287, MUA 288, or MUA 289.

²Six semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 167:367, MUA 168:368, or MUA 169:369.

Organ Track

Courses	Hours
MUS 115.....	4
MUS 117.....	4
MUS 215.....	4
MUS 217.....	4
MUS 241.....	2
MUS 250.....	3
MUS 251.....	3
MUS 252.....	3
MUS 303 or MUS 304.....	3
MUS 303, MUS 304, MUS 403, MUS 418, or MUS 426.....	3

MUS 307.....	3	MUA 010 (five semesters).....	0
MUS 323.....	3	MUA instrument ¹ 100 level (four semesters).....	12
MUS 333.....	1	MUA 199.....	0
MUS 334.....	1	MUA instrument ¹ 300 level (four semesters).....	10
MUS 351.....	2	MUA 121–124 or MUA 271 (four semesters).....	4
MUS 431.....	2	MUA ensembles (eight semesters) ²	8
MUS 477.....	2	MUA 169:369 (four semesters).....	4
MUS 478.....	2	MUA 299.....	0
MUS 492.....	2	MUA 399.....	1
MUS electives 300 or 400 level.....	2	MUA 499.....	1
MUA 010 (five semesters).....	0	Total	89
MUA 172 (four semesters).....	12		
MUA 199.....	0		
MUA 372 (four semesters).....	10		
MUA 271 (four semesters).....	4		
MUA ensembles (eight semesters)*.....	8		
MUA 399.....	1		
MUA 499.....	1		
Total	89		

*Eight semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, MUA 168:368, or MUA 169:369.

Strings Track

Courses	Hours
MUS 115.....	.4
MUS 117.....	.4
MUS 215.....	.4
MUS 217.....	.4
MUS 244.....	.2
MUS 250.....	.3
MUS 251.....	.3
MUS 252.....	.3
MUS 254.....	.3
MUS 255.....	.3
MUS 303 or MUS 304.....	.3
MUS 303, MUS 304, MUS 403, MUS 418, or MUS 426.....	.3
MUS 307.....	.3
MUS 323.....	.3
MUS 351.....	.2
MUS 473.....	.2
MUS electives 300 or 400 level.....	.5
MUA 010 (five semesters).....	0
MUA string instrument ¹ 100 level (four semesters).....	12
MUA 199.....	0
MUA string instrument ¹ 300 level (four semesters).....	10
MUA 121–MUA 124 or MUA 271 (four semesters).....	4
MUA ensembles (eight semesters) ²	8
MUA 169:369 (four semesters).....	4
MUA 299.....	0
MUA 399.....	0
MUA 499.....	1
Total	88

¹Students must earn 22 hours and eight semesters in a single string instrument, with a minimum of 12 hours at the 300 level chosen from: MUA 175:375, MUA 176:376, MUA 177:377, or MUA 178:378.

²Eight semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, or MUA 168:368.

Winds and Percussion Track

Courses	Hours
MUS 115.....	.4
MUS 117.....	.4
MUS 215.....	.4
MUS 217.....	.4
MUS 250.....	.3
MUS 251.....	.3
MUS 252.....	.3
MUS 303 or MUS 304.....	.3
MUS 303, MUS 304, MUS 403, MUS 418, or MUS 426.....	.3
MUS 307.....	.3
MUS 323.....	.3
MUS 351.....	.2
MUS electives 300 or 400 level.....	.10

MUA 010 (five semesters).....	0
MUA instrument ¹ 100 level (four semesters).....	12
MUA 199.....	0
MUA instrument ¹ 300 level (four semesters).....	10
MUA 121–124 or MUA 271 (four semesters).....	4
MUA ensembles (eight semesters) ²	8
MUA 169:369 (four semesters).....	4
MUA 299.....	0
MUA 399.....	1
MUA 499.....	1
Total	89

¹Students must earn 22 hours and eight semesters in a single instrument, with a minimum of 12 hours at the 300 level chosen from: MUA 179:379, MUA 180:380, MUA 181:381, MUA 182:382, MUA 183:383, MUA 184:384, MUA 185:385, MUA 186:386, MUA 187:387, MUA 188:388, or MUA 189:389.

²Eight semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, or MUA 168:368.

Voice Track

Courses	Hours
MUS 115.....	.4
MUS 117.....	.4
MUS 215.....	.4
MUS 217.....	.4
MUS 250.....	.3
MUS 251.....	.3
MUS 252.....	.3
MUS 254.....	.3
MUS 255.....	.3
MUS 303 or MUS 304.....	.3
MUS 303, MUS 304, MUS 403, MUS 418, or MUS 426.....	.3
MUS 307.....	.3
MUS 323.....	.3
MUS 351.....	.2
MUS 444.....	.2
MUS 474.....	.3
MUS 475.....	.3
MUS 492.....	.2
MUA 010 (five semesters).....	0
MUA 174 (four semesters) ¹.....	.2
MUA 199.....	0
MUA 374 (four semesters) ¹	10
MUA 121–124 or MUA 271 (six semesters).....	6
MUA ensembles (eight semesters) ²	8
MUA 299.....	0
MUA 399.....	1
MUA 499.....	1
Total	93

¹Students must earn 22 hours and eight semesters in voice, with a minimum of 12 hours at the 300 level.

²Eight semesters of choral ensembles should be chosen from MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, or MUA 168:368.

Ancillary courses. The voice performance track requires 16 hours of French, German, and Italian with two semesters in at least one language.

Courses	Hours
FR 101 (or FR 103).....	4
GN 101 (or GN 103).....	4
IT 101.....	4
FR 102, GN 102, or IT 102.....	4

Jazz Studies Track

Courses	Hours
MUS 115.....	.4
MUS 117.....	.4
MUS 215.....	.4
MUS 217.....	.4
MUS 228.....	.1
MUS 229.....	.1
MUS 230.....	.1
MUS 231.....	.1
MUS 250.....	.3

	3	Courses	Hours
MUS 251.....	3	MUS 115.....	4
MUS 252.....	3	MUS 117.....	4
MUS 303 or MUS 304.....	3	MUS 215.....	4
MUS 307.....	3	MUS 217.....	4
MUS 310.....	3	MUS 219.....	2
MUS 312.....	3	MUS 220.....	2
MUS 323.....	3	MUS 250.....	3
MUS 331 ¹	3	MUS 251.....	3
MUS 340.....	3	MUS 252.....	3
MUS 351.....	2	MUS 303.....	3
MUS 401.....	3	MUS 304.....	3
MUS 402.....	3	MUS 307.....	3
MUS 405.....	3	MUS 319.....	3
MUS 461.....	3	MUS 320.....	3
MUA 010 (five semesters).....	0	MUS 323.....	3
MUA applied instrument 100 level (four semesters) ²	8	MUS 325.....	3
MUA 199.....	0	MUS 351.....	2
MUA applied instrument 300 level (four semesters) ²	7	MUS 403 or MUS 426.....	3
MUA 121–124 or MUA 271.....	4	MUS 411.....	3
MUA 159:369 (four semesters).....	4	MUS 418.....	3
MUA 167:367 (four semesters).....	4	MUS 419.....	3
MUA 299.....	0	MUS 420.....	3
MUA 499.....	1	MUS 492 or MUS 494.....	2
Total	9	MUS elective 300 or 400 level.....	3

¹MUS 331 will be used as an upper-level theory requirement in jazz studies.

²Students must earn 16 hours and eight semesters in a single jazz instrument, with a minimum of 8 hours at the 300 level chosen from: MUA 171:371, MUA 178:378, MUA 179:379, MUA 182:382, MUA 183:383, MUA 184:384, MUA 186:386, MUA 189:389, or MUA 190:390.

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA.

Required minor. The music performance major does not require the completion of a minor.

Additional major requirements. MUS 121 does not satisfy the fine arts (FA) general education requirement for music majors. All music performance majors must earn a minimum of 33 hours of 300- or 400-level courses. To be admitted to the performance major in voice, students must complete the general admission requirements of the School of Music, including an audition program that includes a demonstration of the potential understanding of the classical vocal style (i.e., classical art songs sung in English and/or foreign languages). The foreign language requirement must be met with specific courses determined by placement examinations; students should consult the voice advisor for details. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Music Composition (BM)

School of Music, 175 Moody Music Building
www.as.ua.edu/music
music@as.ua.edu

Degree requirements. Students earning the bachelor of music (BM) degree with a major in composition must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 138 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in composition requires successful completion of the following 96 semester hours:

	3	Courses	Hours
MUS 115.....	3	MUS 117.....	4
MUS 117.....	3	MUS 215.....	4
MUS 215.....	3	MUS 217.....	4
MUS 217.....	3	MUS 219.....	2
MUS 219.....	3	MUS 220.....	2
MUS 250.....	3	MUS 251.....	3
MUS 251.....	3	MUS 252.....	3
MUS 252.....	3	MUS 303.....	3
MUS 303.....	3	MUS 304.....	3
MUS 307.....	3	MUS 307.....	3
MUS 310.....	3	MUS 319.....	3
MUS 312.....	3	MUS 320.....	3
MUS 323.....	3	MUS 323.....	3
MUS 331 ¹	3	MUS 325.....	3
MUS 340.....	3	MUS 351.....	2
MUS 351.....	2	MUS 403 or MUS 426.....	3
MUS 401.....	3	MUS 411.....	3
MUS 402.....	3	MUS 418.....	3
MUS 405.....	3	MUS 419.....	3
MUS 461.....	3	MUS 420.....	3
MUA 010 (five semesters).....	0	MUS 492 or MUS 494.....	2
MUA applied instrument 100 level (four semesters) ²	8	MUS elective 300 or 400 level.....	3
MUA 199.....	0	MUA 010 (five semesters).....	0
MUA applied instrument 300 level (four semesters) ²	7	MUA 121–124 or MUA 271 (eight semesters).....	8
MUA 121–124 or MUA 271.....	4	MUA applied 100 level (eight semesters) ¹	8
MUA 159:369 (four semesters).....	4	MUA ensembles (eight semesters) ²	8
MUA 167:367 (four semesters).....	4	MUA 299.....	0
MUA 299.....	0	Total	96

¹Students must earn a minimum of 8 hours and eight semesters in a single instrument or voice chosen from: MUA 170, MUA 171, MUA 172, MUA 174, MUA 175, MUA 176, MUA 177, MUA 178, MUA 179, MUA 180, MUA 181, MUA 182, MUA 183, MUA 184, MUA 185, MUA 186, MUA 187, MUA 188, or MUA 189.

²Eight semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, MUA 168:368, or MUA 169:369.

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in music composition requires the successful completion of the following courses outside the major:

Courses	Hours
GN 101 and GN 102 (or GN 103).....	4–8

Required minor. The music composition major does not require the completion of a minor.

Additional major requirements. MUS 121 does not satisfy the fine arts (FA) general education requirement for music majors. Composition majors may audition for status as "principals" in any instrument or voice. Principal status qualifies the student for 2 hours of credit per semester instead of the usual 1 hour. Not more than 10 hours or fewer than 2 hours may be taken in any single instrument or family of instruments. Students who do not qualify as piano principals must enroll for that instrument during every semester. During the senior year, composition majors must present, to the satisfaction of the composition faculty, a recital of their works. Readings of works for large ensemble will count toward the fulfillment of this requirement. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Music Theory Major (BM)

School of Music, 175 Moody Music Building
www.as.ua.edu/music
music@as.ua.edu

Degree requirements. Students earning the bachelor of music (BM) degree with a major in theory must complete all University, college (see pp. 52-53), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 129 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in theory requires successful completion of the following 79 semester hours:

Courses	Hours
MUS 115.....	4
MUS 117.....	4
MUS 215.....	4
MUS 217.....	4
MUS 219.....	2
MUS 250.....	3
MUS 251.....	3
MUS 252.....	3
MUS 300.....	2
MUS 303.....	3
MUS 304.....	3
MUS 307.....	3
MUS 323.....	3
MUS 325.....	3
MUS 351.....	2
MUS 403.....	3
MUS 411.....	3
MUS 418.....	3
MUS 426.....	3
MUS 492 or MUS 494.....	2
MUS elective 300 or 400 level.....	3
MUA 010 (five semesters).....	0
MUA 121–124 or MUA 271 (eight semesters).....	8
MUA applied 100 level (four semesters) ¹	4
MUA ensembles (four semesters) ²	4
MUA 299.....	0
Total	79

¹Students must earn a minimum of 4 hours and four semesters in a single instrument or voice chosen from: MUA 170, MUA 171, MUA 172, MUA 174, MUA 175, MUA 176, MUA 177, MUA 178, MUA 179, MUA 180, MUA 181, MUA 182, MUA 183, MUA 184, MUA 185, MUA 186, MUA 187, MUA 188, or MUA 189.

²Four semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, MUA 168:368, or MUA 169:369.

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The music major in theory requires 12–14 hours of French, German, and/or Italian subject to theory faculty approval.

Required minor. The music theory major does not require the completion of a minor.

Additional major requirements. MUS 121 does not satisfy the fine arts (FA) general education requirement for music majors. Theory majors may audition for status as "principals" in any instrument or voice. Principal status qualifies the student for 2 hours of credit per semester instead of the usual 1 hour. Not more than 10 hours or fewer than 2 hours may be taken in any single instrument or family of instruments. Students who do not qualify as piano principals must enroll for that instrument during every semester. The Seminar in Music Theory Research is normally taken during the second semester of the student's sophomore year. During the senior year, theory majors must present, to the satisfaction of the theory faculty, a paper delivered as a lecture based on research done under the supervision of theory faculty.

Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Music Therapy Major (BM)

School of Music, 175 Moody Music Building
www.as.ua.edu/music
musictherapy@as.ua.edu

Degree requirements. Students earning the bachelor of music (BM) degree with a major in music therapy must complete all University, college (see pp. 52–53), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 144 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in music therapy requires successful completion of the following 99 hours:

Courses	Hours
MUS 115.....	4
MUS 117.....	4
MUS 180.....	2
MUS 182.....	2
MUS 215.....	4
MUS 217.....	4
MUS 228.....	1
MUS 229.....	1
MUS 250.....	3
MUS 251.....	3
MUS 252.....	3
MUS 280.....	2
MUS 281.....	2
MUS 282(two semesters).....	2
MUS 323.....	3
MUS 351.....	2
MUS 380.....	3
MUS 382 (four semesters).....	4
MUS 480.....	3
MUS 481.....	3
MUS 482.....	3
MUS 487.....	2
MUS 488.....	0
MUS 489.....	6
MUE 251.....	3
MUA principal 100 level (four semesters) ¹	8
MUA principal 300 level (four semesters) ¹	7
Additional study ²	5
MUA 220.....	1
MUA ensembles (eight semesters) ³	8
MUA 010 (five semesters).....	0
MUA 199.....	0
MUA 299.....	0
MUA 399.....	1
Total .....	.99

¹Students must earn a minimum of 16 hours and 8 semesters in a single instrument or voice, with a minimum of 8 hours at the 300 level chosen from: MUA 170:370, MUA 171:371, MUA 172:372, MUA 174:374, MUA 175:375, MUA 176:376, MUA 177:377, MUA 178:378, MUA 179:379, MUA 180:380, MUA 181:381, MUA 182:382, MUA 183:383, MUA 184:384, MUA 185:385, MUA 186:386, MUA 187:387, MUA 188:388, or MUA 189:389.

²In addition to the principal voice, piano, or other instrument, students must earn a minimum of 5 hours of additional study:
 Voice principal: Five semesters of MUA 121, MUA 122, MUA 123, MUA 124, and/or MUA 271.
 Piano principal: MUS 335, MUS 406, and MUE 381.

Other instrument principal: MUE 381 and four semesters of MUA 121, MUA 122, MUA 123, MUA 124, and/or MUA 271.

³Eight semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, MUA 168:368, or MUA 169:369.

Upper-level residency. A minimum of 12 hours of 300- or 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed in the major GPA. The major in music therapy requires the successful completion of the following courses outside the major:

Courses	Hours
PY 101.....	3
PY 358.....	3
BSC 108.....	4
BSC 109.....	4

Required minor. The music therapy major does not require the completion of a minor.

Additional major requirements. MUS 121 does not satisfy the fine arts (FA) general education requirement for music majors. Piano and guitar proficiencies must be passed prior to the internship. Admission to any music therapy course at the 300 level or above is contingent upon (a) successful completion of MUS 217 Theory IV, (b) principal performance level at the 300 level, (c) overall grade point average of 2.0 or higher, and (d) grades of "C-" or higher in all previous music therapy courses or, for equivalency students, acceptance into the program. All requirements must be completed prior to enrollment in MUS 489.

Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Music Major (BA)

School of Music, 175 Moody Music Building
www.as.ua.edu/music
music@as.ua.edu

Degree requirements. Students earning the bachelor of arts degree must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in music (BA) requires successful completion of the following 45 semester hours:

Courses	Hours
MUS 115.....	4
MUS 117.....	4
MUS 215.....	4
MUS 217.....	4
MUS 250.....	3
MUS 251.....	3
MUS 252.....	3
MUS 307.....	3
MUS 323.....	3
MUS 497.....	1
MUS electives 300 or 400 level.....	5
MUA applied 100 level (four semesters) ¹	4
MUA ensembles (four semesters) ²	4
MUA 121–124 or MUA 271 (two semesters).....	2
MUA 010 (five semesters).....	0
Total	47

¹Students must earn a minimum of 4 hours and four semesters in a single instrument or voice chosen from: MUA 170, MUA 171, MUA 172, MUA 174, MUA 175, MUA 176, MUA 177, MUA 178, MUA 179, MUA 180, MUA 181, MUA 182, MUA 183, MUA 184, MUA 185, MUA 186, MUA 187, MUA 188, or MUA 189.

²Four semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, MUA 168:368, or MUA 169:369.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in music with the arts administration concentration requires the successful completion of the following courses outside the major:

Additional major requirements. MUS 121 does not satisfy the fine arts (FA) general education requirement for music majors. At the beginning of the senior year, the student, in consultation with the music advisor, selects a faculty advisor for the senior project, which is usually a substantial paper on a historical or theoretical topic. The topic and format of the project must be approved by the project advisor. The project must be turned in one month before the last day of classes in the final semester. It will be examined by a faculty committee selected by the project advisor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Music Major with Arts Administration Concentration (BA)

School of Music, 175 Moody Music Building
www.as.ua.edu/music
music@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in music with an arts administration concentration must complete all University, college (see pp. 52-54), and departmental degree requirements. This includes the general education requirements; the following major requirements; all requirements for an approved minor in general business, entrepreneurship, management, or world business; and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in music with the arts administration concentration requires successful completion of the following 36 semester hours:

Courses	Hours
MUS 115.....	4
MUS 117.....	4
MUS 215.....	4
MUS 250.....	3
MUS 251.....	3
MUS 252.....	3
MUS 323.....	3
MUS 340.....	3
MUS 497.....	1
MUS electives 300 or 400 level ¹	5
MUA 010 (five semesters).....	0
MUA applied 100 level (four semesters) ²	4
MUA 121–124, or MUA 271 (two semesters).....	2
Total	39

¹MUS 351 and MUS 461 are recommended.

²Students must earn a minimum of 4 hours and four semesters in a single instrument or voice chosen from: MUA 170, MUA 171, MUA 172, MUA 174, MUA 175, MUA 176, MUA 177, MUA 178, MUA 179, MUA 180, MUA 181, MUA 182, MUA 183, MUA 184, MUA 185, MUA 186, MUA 187, MUA 188, or MUA 189.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in music with the arts administration concentration requires the successful completion of the following courses outside the major:

Courses	Hours
TH 114.....	3
MUS 315.....	2
MUS 316.....	2
MUS 365.....	3
MUS 490.....	2
ART 218, ART 224, PHIL 217, OR UH 210 OR a fine arts (FA) elective (except MUS 121)	3
ARH 252, ARH 253, ARH 254, ARH 365, ARH 375, ARH 376, or ARH 385.....	3
NEW 490 (Museum Management)	3

Required minor. This major requires the completion of a minor in general business, entrepreneurship, management, or world business.

Additional major requirements. MUS 121 does not satisfy the fine arts (FA) general education requirement for music majors. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The School of Music offers opportunities for students of all majors to perform with the bands, orchestras, choirs, and jazz and chamber groups. Over 200 student performances annually are sponsored by the school. In addition to performance opportunities, a variety of lectures, forums, and conferences addressing music as an art form are sponsored each year.

Music Minor

School of Music, 175 Moody Music Building
www.as.ua.edu/music
music@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in music requires the successful completion of the following 25 semester hours:

Courses	Hours
MUS 115.....	4
MUS 117.....	4
MUS 121 or MUS 250.....	3
MUA 010 (four semesters).....	0
MUA applied 100 level (four semesters) ¹	4
MUA ensembles (four semesters) ²	4
MUS 315, MUS 316, MUS 340, MUS 351, MUS 492, or MUS 494.....	6
Total	25

¹Students must earn a minimum of 4 hours and four semesters in a single instrument or voice chosen from: MUA170, MUA171, MUA172, MUA174, MUA175, MUA176, MUA177, MUA178, MUA179, MUA180, MUA181, MUA182, MUA183, MUA184, MUA185, MUA186, MUA187, MUA188, or MUA189.

²Four semesters of ensembles should be chosen from MUA 150:350, MUA 152:352, MUA 153:353, MUA 154:354, MUA 156:356, MUA 158:358, MUA 159:359, MUA 160:360, MUA 161:361, MUA 162:362, MUA 163:363, MUA 165:365, MUA 167:367, MUA 168:368, or MUA 169:369.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Natural Resources Minor

Department of Biological Sciences,
1324 Science and Engineering Complex
www.as.ua.edu/biology
biology@as.ua.edu

The natural resources minor has been developed for students interested in the guiding principles of land stewardship and economic sustainability. Students can develop an appreciation for the ecological diversity of Alabama and gain an understanding of the historical importance of natural resources in the economic development of Alabama. Courses in the minor will address the impact of changes in life styles and the economic base of the state as well as the implications for land management.

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in natural resources requires the successful completion of the following 26 semester hours:

Courses	Hours
GEO 101 or GEO 105.....	4
GY 101 or GY 102.....	4
BSC 114:115 (or BSC 118) or BSC 116:117 (or BSC 120).....	4
BSC, GEO, or GY ¹	9
BSC 396, BSC 398, or GY 483.....	3
FORY 4820 ²	2
Total	26

¹Students must earn 9 hours chosen from two of the following three areas:

1. Earth: GEO 306, GEO 363, GY 363, or GY 402.

2. Life: BSC 303, BSC 320, BSC 414, BSC 415, or BSC 497 (3 hrs.).

3. Policy and Process: BSC 482 or GY 339.

²FORY 4820 is a course offered through Distance Education from Auburn University.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

New College (NEW)

201 Lloyd Hall
www.as.ua.edu/nc
newcollege@as.ua.edu

The major objective of New College is to create an opportunity for a highly individualized education that enables students to draw from the resources of all University classes and faculty. The New College curriculum has two principal elements. First is the depth study, which is the student's area of concentration. Students are also expected to develop their own independent studies and out-of-class learning experiences to enhance their understanding of the subject of their depth studies and to add to their learning experiences. The second element is the general education component, which provides students with opportunities to integrate humanities, social sciences, and natural sciences beyond their depth study. The interdisciplinary experience in New College affords excellent preparation for students with ambitions for graduate study or for professional careers in various areas, including law and medicine.

Degree requirements. Students complete the bachelor of arts (BA) or the bachelor of science (BS) degree depending on the area in which the depth study is done. Students also complete all University, College of Arts and Sciences (see pp. 52-54), and New College requirements. This includes the general education requirement, the following New College requirements, and sufficient other credits to total 120 applicable semester hours.

Admission into the program. Applications are available from the New College office. The admission process is separate from and in addition to admission to The University of Alabama. Two factors are taken into consideration when making a decision for admission: the degree of motivation and serious intellectual independence exhibited by the applicant and the potential for the University to meet the applicant's academic goals. For details on the admissions process, please refer to the New College Web site.

Grade point average. A 2.0 grade point average is required on all work attempted in New College and all work attempted at the University.

Required courses. New College requires the successful completion of the following courses and activities:

Courses	Hours
NEW 100	2
NEW 495	2
NEW electives 400 level and above	6-12
NEW electives 200 level and above	8-12
Individualized depth study	33-39
Total	57

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses must be earned on this campus.

Ancillary courses. Students in New College fulfill the foreign language/computer requirement of general education through the successful completion of six credit hours or the equivalent of six credit hours in a single foreign language. Students pursuing a bachelor of science degree must also complete MATH 125 or MATH 145.

Required minor. Students complete a New College depth study and are not required to complete a minor program of study.

Additional New College requirements. Students are expected to complete a minimum of 42 semester hours while enrolled in New College. In addition, students are required to undergo a third-year program review.

Integrative seminars. The five seminars introduce students to the major areas of liberal arts study in one of three integrative themes: environment, sustainability and conservation; creativity and culture; and social problems and social change. The seminars required for graduation are arranged in two levels. The level I seminars are designed for entering students (usually freshmen and sophomores) while the level II seminars are designed for upper-level students. All students must complete five seminars with at least one seminar in each theme, including two level I seminars from different themes and two level II seminars in any theme. A minimum grade of C- is required for each integrative seminar.

Out-of-class learning/independent study. New College has a strong commitment to provide students opportunities to pursue their academic interests outside of the classroom through out-of-class learning experiences for credit. In these out-of-class learning/independent study experiences, an agreement (or contract) is made among the student, the project director, and New College. The contract is a clear, concise statement that includes the course area, topic, or problem the student intends to study, along with the bibliography, plans for evaluating the study, and the anticipated outcomes of the study.

The Department of Philosophy (PHL)

While fostering original thought and encouraging logical precision, an open-minded attitude toward new and unusual ideas, and a commitment to responsible criticism, the Department of Philosophy offers a major and minor in philosophy and co-sponsors a minor in civic engagement and leadership.

Philosophy Major (BA)

Department of Philosophy, 336 ten Hoor Hall
www.as.ua.edu/philos
philosophy@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in philosophy must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in philosophy requires successful completion of the following 30 semester hours:

Courses	Hours
PHL 101 or PHL 103.....	3
PHL 201.....	3
PHL 251.....	3
PHL electives 300 or 400 level	12
PHL electives.....	9
Total	30

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. This major does not require ancillary courses.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The philosophy department honors program is designed for students who wish to pursue a philosophical topic further than the seminar format permits. It also provides recognition both for having done a greater proportion of classes at the advanced level and for sustained outstanding achievement in all courses. Students graduating with honors in philosophy must complete 36 hours in philosophy with 18 hours at the 300 or 400 level and achieve a minimum GPA of 3.5 in all philosophy courses and a minimum GPA of 3.3 overall. A philosophy honors student must also write a senior essay on a philosophical topic and defend it during an oral examination. A student who is enrolled in the University Honors Program can count his or her senior essay in philosophy as completing the honors thesis in that program.

Mind and brain concentration. Students majoring in philosophy who are interested in philosophical questions regarding the nature and functioning of the mind, of consciousness, and of the brain can choose a sequence of courses in the mind and brain concentration. These students should choose the philosophy electives from the following: PHL 252, PHL 354, and PHL 380, related topics.

Prelaw concentration. Students majoring in philosophy who are considering careers in law or politics and who need to enhance preparation for the LSAT can choose a sequence of courses in the prelaw concentration. These students should choose the philosophy electives from the following: PHL 220, PHL 225, PHL 226, PHL 227, and PHL 412.

Philosophy Minor

Department of Philosophy, 336 ten Hoor Hall
www.as.ua.edu/philos
philosophy@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in philosophy requires the following 18 semester hours:

Courses	Hours
PHL electives 300 or 400 level	6
PHL electives.....	12
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Physics and Astronomy (PH, AY)

The Department of Physics and Astronomy offers major and minor programs in physics and a minor in astronomy. The Department of Physics and Astronomy also has a second-major curriculum for engineering majors.

Physics Major (BS)

Department of Physics and Astronomy, 206 Gallalee Hall
www.as.ua.edu/physics
physics@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree with a major in physics must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in physics requires successful completion of 30–41 semester hours in one of four tracks: graduate school, astrophysics, biophysics, or physics education

Graduate School Track

Primarily designed for students considering graduate work in physics, the graduate school track requires successful completion of the following 36 semester hours:

Courses	Hours
PH 105 or PH 125 (or PH 101*)	4
PH 106 or PH 126 (or PH 102*)	4
PH 253: 255	4
PH 302	3
PH 331	3
PH 332	3
PH 441	3
PH 442	3
PH 471	3
PH 491	3
PH or AY elective 300 or 400 level	3
Total	36

*General physics with calculus (PH 105 and PH 106, or honors PH 125 and PH 126) is the preferred preparation for advanced physics courses. However, general physics (PH 101 and PH 102) can substitute for students who must begin the major courses before taking calculus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in physics for the graduate school track requires the successful completion of the following courses outside the major:

Courses	Hours
CH 101 or CH 117	4
CH 102 or CH 118	4
MATH 125 or MATH 145	4
MATH 126 or MATH 146	4
MATH 227 or MATH 247	4
MATH 238	3

Astrophysics Track

Primarily designed for students interested in astronomy or space science, the astrophysics track requires successful completion of the following 41 semester hours:

Courses	Hours
AY 203	2
AY 204	3
AY 206	3
AY elective 300 or 400 level	6
PH 105 or PH 125 (or PH 101*)	4
PH 106 or PH 126 (or PH 102*)	4
PH 253:255	4
PH 302	3
PH 331	3
PH 332	3
PH 441	3
PH 442	3
Total	41

*General physics with calculus (PH 105 and PH 106, or honors PH 125 and PH 126) is the preferred preparation for advanced physics courses. However, general physics (PH 101 and PH 102) can substitute for students who must begin the major courses before taking calculus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in physics for the astrophysics track requires the successful completion of the following courses outside the major:

Courses	Hours
CH 101 or CH 117	4
CH 102 or CH 118	4
MATH 125 or MATH 145	4
MATH 126 or MATH 146	4
MATH 227 or MATH 247	4
MATH 238	3

Physics Education Track

Primarily designed for students who want to teach in grades K–12, the physics education track requires successful completion of the following 33 semester hours:

Courses	Hours
PH 105 or PH 125 (or PH 101*)	4
PH 106 or PH 126 (or PH 102*)	4
PH 253:255	4
PH 301 or PH 302	3
PH 331	3
PH 354	3
PH 405	3
PH 491	3
PH elective 300 or 400 level	6
Total	33

*General physics with calculus (PH 105 and PH 106, or honors PH 125 and PH 126) is the preferred preparation for advanced physics courses. However, general physics (PH 101 and PH 102) can substitute for students who must begin the major courses before taking calculus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in physics for the physics education track requires the successful completion of the following courses outside the major:

Courses	Hours
CH 101 or CH 117	4
CH 102 or CH 118	4
MATH 125 or MATH 145	4
MATH 126 or MATH 146	4
MATH 227 or MATH 247	4
MATH 238	3

Biophysics Track

Primarily designed for students planning a career in a health profession, the biophysics track requires successful completion of the following 30 semester hours:

Courses	Hours
PH 105 or PH 125 (or PH 101*)	4
PH 106 or PH 126 (or PH 102*)	4
PH 253:255.....	4
PH 301 or PH 302	3
PH 331.....	3
PH 354.....	3
PH 411	3
PH 491	3
PH elective 300 or 400 level.....	3
Total	30

*General physics with calculus (PH 105 and PH 106, or honors PH 125 and PH 126) is the preferred preparation for advanced physics courses. However, general physics (PH 101 and PH 102) can substitute for students who must begin the major courses before taking calculus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in physics for the biophysics track requires the successful completion of the following courses outside the major:

Courses	Hours
BSC 114:115 or BSC 118	4
BSC 116:117 or BSC 120	4
CH 101 or CH 117	4
CH 102 or CH 118	4
CH 231	3
CH 232:237	5
MATH 125 or MATH 145	4
MATH 126 or MATH 146	4
MATH 227 or MATH 247	4
MATH 238.....	3

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in physics for all tracks requires the successful completion of 23–39 semester hours of ancillary courses.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The department sponsors a local chapter of the Society of Physics Students. The department also has an honors program. Students are invited to apply for admission to the honors program in physics on the basis of performance in introductory courses. Physics majors participating in the physics honors program must maintain a 3.3 GPA in physics courses and a 3.0 overall GPA. Honors students must also submit an acceptable honors thesis based on research conducted under the supervision of a faculty member in physics or astronomy and participate in the 1-hour senior-level honors physics seminar, PH 490. Students can inquire at the Department of Physics and Astronomy office for further information.

Physics Major for College of Engineering Students

Department of Physics and Astronomy, 206 Gallalee Hall
www.as.ua.edu/physics
physics@as.ua.edu

The Department of Physics and Astronomy also has a second-major curriculum for engineering majors. This combination of fundamental and applied physics can be highly advantageous when the graduate enters the job market. For more information, contact the Department of Physics and Astronomy.

Physics Minor

Department of Physics and Astronomy, 206 Gallalee Hall
www.as.ua.edu/physics
physics@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the “Declaration of Minor” form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in physics requires successful completion of the following 18 semester hours:

Courses	Hours
PH 101, PH 105, or PH 125	4
PH 102, PH 106, or PH 126	4
PH electives 300 and 400 level	6
PH electives.....	4
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus in the Department of Physics and Astronomy.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Political Science (PSC)

The Department of Political Science offers two majors, one in political science and another in international studies, both of which culminate in the BA degree. Minors in both fields are also offered.

Political Science Major (BA)

Department of Political Science, 318 ten Hoor Hall
www.as.ua.edu/psc
politicalscience@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in political science must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the “Declaration of Major” form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in political science requires successful completion of the following 30 semester hours:

Courses	Hours
PSC 101	3
PSC 201, PSC 202, PSC 203, PSC 204, PSC 205, or PSC 206	6
PSC field requirement*	9
PSC electives	12
Total	30

*Fields: Students must earn a minimum of 3 hours in three of the fields listed below for a total of 9 hours.

1. American Government: PSC 102, PSC 103, PSC 211, PSC 311, PSC 312, PSC 313, PSC 314, PSC 316, PSC 318, PSC 319, PSC 364, PSC 411, PSC 413, PSC 414, and PSC 423.

2. Comparative Politics: PSC 203, PSC 332, PSC 333, PSC 334, PSC 335, PSC 433, PSC 436, PSC 437, PSC 438, and PSC 443.

3. Political Theory: PSC 205, PSC 353, PSC 362, and PSC 452.
 4. Public Administration: PSC 206, PSC 211, PSC 361, PSC 362, and PSC 462.
 5. International Relations: PSC 204, PSC 342, PSC 343, PSC 413, PSC 414, PSC 432, PSC 434, PSC 435, PSC 441, PSC 442, PSC 444, PSC 445, and PSC 446.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. The major in political science does not require ancillary courses. However, it is recommended that students considering graduate school study a modern foreign language.

Required minor. This major requires the completion of a minor.

Additional major requirements. Specific sections of topics courses (PSC 320, PSC 321, and PSC 422) may be appropriate to fulfill the field requirements. Students should contact the department's undergraduate director concerning this use of special topics courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The department sponsors the Gamma Omicron chapter of Pi Sigma Alpha, the National Political Science Honor Society. The department also offers internship opportunities in state government and politics in Montgomery, Alabama, and in national government and politics in Washington, D.C.

Political Science Minor

Department of Political Science, 318 ten Hoor Hall

www.as.ua.edu/psc

politicalscience@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in political science requires the successful completion of the following 18 semester hours:

Courses	Hours
PSC 101	3
PSC 201, PSC 202, PSC 203, PSC 204, PSC 205, or PSC 206.....	3
PSC field requirement*	6
PSC electives	6
Total	18

*Fields: Students must earn a minimum of 3 hours in **two** of the fields listed below for a total of 6 hours.

1. American Government: PSC 102, PSC 103, PSC 211, PSC 311, PSC 312, PSC 313, PSC 314, PSC 316, PSC 318, PSC 319, PSC 364, PSC 411, PSC 413, PSC 414, and PSC 423.
2. Comparative Politics: PSC 203, PSC 332, PSC 333, PSC 334, PSC 335, PSC 433, PSC 436, PSC 437, PSC 438, and PSC 443.
3. Political Theory: PSC 205, PSC 353, PSC 362, and PSC 452.
4. Public Administration: PSC 206, PSC 211, PSC 361, PSC 362, and PSC 462.
5. International Relations: PSC 204, PSC 342, PSC 343, PSC 413, PSC 414, PSC 432, PSC 434, PSC 435, PSC 441, PSC 442, PSC 444, PSC 445, and PSC 446.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Specific sections of topics courses (PSC 320, PSC 321, and PSC 422) may be appropriate to fulfill the field requirements. Students should contact the department's undergraduate director concerning this use of special topics courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Psychology (PY)

The Department of Psychology offers an undergraduate major culminating in both a bachelor of arts (BA) degree and bachelor of science (BS) degree. The department also offers a minor in psychology.

Psychology Major (BA)

Department of Psychology, 348 Gordon Palmer Hall

www.as.ua.edu/psychology

psychology@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in psychology must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in psychology requires successful completion of the following 32 semester hours:

Courses	Hours
PY 101	3
PY 211	3
PY 355	3
PY 356	2
PY area requirement*	9
PY 471	3
PY 491 (or PY 379 and PY 491).....	6
PY elective 300 or 400 level	3
Total	32

*Area requirement: Students must complete courses from **three** of the following content areas for a total of 9 hours:

1. Developmental: PY 352, PY 365, or PY 461
2. Learning/cognition: PY 361 or PY 470
3. Social/personality: PY 358, PY 368, PY 372, or PY 462
4. Biologically Based: PY 313 or PY 413

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in psychology requires the successful completion of the following courses outside the major:

Courses	Hours
BSC, CH, or PH*	8

*Must be chosen from the following: BSC 108, BSC 109, BSC 114:115, BSC 116:117, BSC 118, BSC 120, CH 101, CH 102, CH 104, CH 105, CH 107, CH 108, CH 117, CH 118, PH 101, PH 102, PH 105, PH 106, PH 125, or PH 126.

Required minor. This major requires the completion of a minor.

Additional major requirements. Majors must receive a minimum grade of "C-" in PY 211. In addition, a minimum of 12 hours must be earned in 400-level courses, excluding hours earned in PY 451, PY 481, and PY 495. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Psychology Major (BS)

Department of Psychology, 348 Gordon Palmer Hall

www.as.ua.edu/psychology

psychology@as.ua.edu

Degree requirements. Students earning the bachelor of science (BS) degree with a major in psychology must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61

semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in psychology requires successful completion of the following 32 semester hours:

Courses	Hours
PY 101	3
PY 211	3
PY 355	3
PY 356	2
PY area requirement*	9
PY 471	3
PY 491(or PY 379 and PY 491)	6
PY elective 300 or 400 level	3
Total	32

*Area requirement: Students must complete courses from three of the following content areas for a total of 9 hours.

1. Developmental: PY 352, PY 365, or PY 461
2. Learning/cognition: PY 361 or PY 470
3. Social/personality: PY 358, PY 368, PY 372, or PY 462
4. Biologically Based: PY 313 or PY 413

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in psychology requires successful completion of the following courses outside the major:

Courses	Hours
BSC, CH, or PH*	8
MATH 125 or MATH 145	4

*Must be chosen from the following: BSC 108, BSC 109, BSC 114:115, BSC 116:117, BSC 118, BSC 120, CH 101, CH 102, CH 104, CH 105, CH 107, CH 108, CH 117, CH 118, PH 101, PH 102, PH 105, PH 106, PH 125, or PH 126.

Required minor. This major requires the completion of a minor.

Additional major requirements. Majors must receive a minimum grade of "C" in PY 211. In addition, a minimum of 12 hours must be earned in 400-level courses, excluding hours earned in PY 451, PY 481, and PY 495. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The psychology department honors program is designed to afford qualified majors the opportunity to participate in activities preparatory for graduate training in psychology. The two-year program is research-oriented and involves interactions with selected faculty and peers in an enriched and accelerated academic environment. Completion of the program is contingent on the submission of an independently conducted research project equivalent in quality to a master's thesis. Psychology majors who are in the second semester of the sophomore year with 9 hours of coursework in psychology (including PY 101, PY 211, and a 300-level course) to be completed by the end of the semester may apply for admission to the psychology department honors program. A completed application and interview by the Departmental Honors Committee are required before acceptance. To be accepted, a student must have a 3.3 GPA in psychology coursework and a 3.0 overall GPA; however, meeting these minimum requirements does not guarantee admission.

Psychology Minor

Department of Psychology, 348 Gordon Palmer Hall
www.as.ua.edu/psychology
psychology@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses

applicable to the minor that the student has attempted at UA.

Minor courses. The minor in psychology requires the successful completion of the following 18 semester hours:

Courses	Hours
PY 101	3
PY electives 300 or 400 level	6
PY electives	9
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Religious Studies (REL)

The Department of Religious Studies, which engages in the descriptive, comparative, interpretive, and explanatory study of religion as a cross-cultural human phenomenon, offers an undergraduate major in religious studies and minors in Asian studies, Judaic studies, and religious studies.

Religious Studies Major (BA)

Department of Religious Studies, 212 Manly Hall
www.as.ua.edu/rel
religiousstudies@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in religious studies must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total 120 credit hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in religious studies requires the successful completion of the following 33 semester hours:

Courses	Hours
REL 100 or REL 105	3
REL 490 ¹	3
REL area requirement ²	12
REL electives	15
Total	33

¹REL 490 is offered only in the spring semester. Students are expected to enroll during the senior year, but can enroll as early as the junior year.

²Students must earn 3 hours in each of the following four areas for a total of 12 hours:

1. Religion in Culture: REL 213, REL 231, REL 234, REL 237, REL 335, REL 340, REL 341, REL 370, REL 410, REL 419, REL 440, or REL 480.*
2. American Religions: REL 124, REL 226, REL 235, REL 240, REL 241, REL 371, or REL 481.*
3. Middle Eastern and European Religions: REL 110, REL 112, REL 223, REL 224, REL 228, REL 236, REL 238, REL 311, REL 332, REL 347, REL 372, REL 420, or REL 482.*
4. Asian Religions: REL 208, REL 210, REL 220, REL 321, REL 373, or REL 483.*

*Depending on the topic, the following courses may fulfill the requirement for any area: REL 360, REL 361, REL 460, or REL 461.

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. This major does not require ancillary courses; however, students interested in graduate-level work in the study of religion are recommended to take either French or German as part of the undergraduate program of study.

Required minor. This major requires the completion of a minor.

Additional major requirements. Including REL 490, a minimum of 15 hours must be earned in 300- or 400-level courses. Students can count

a maximum of 6 hours of online REL courses toward the major or minor. Students can earn a maximum of 9 hours (i.e., three separate courses) of any variable topics courses that have different titles (i.e., REL 360, REL 361, REL 370, REL 371, REL 372, REL 373, REL 460, REL 461, REL 480, REL 481, REL 482, REL 483, and REL 490). For more information on degree requirements, visit the Degrees page of the department's Web site (www.as.ua.edu/rel). Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The department annually awards both Silverstein Fellowships (providing the opportunity to work in the department for one or more semesters, assisting in the main office, and assisting professors with their work) and Silverstein Scholarships (awarded by the Faculty each Honors Day based on a student's GPA). To learn more about such funding opportunities, visit www.as.ua.edu/rel/stdeskscholarships.html. The department also has three ongoing lecture and/or luncheon discussion series, an active religious studies student association, and a local chapter of the national honors society in the study of religion, Theta Alpha Kappa.

Religious Studies Minor

Department of Religious Studies, 212 Manly Hall
www.as.ua.edu/rel
religiousstudies@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in religious studies requires the successful completion of the following 21 semester hours:

Courses	Hours
REL 100 or REL 105	3
REL 490 ¹	3
REL area requirement ²	9
REL electives	6
Total	21

¹REL 490 is offered only in the spring semester. Students are expected to enroll during the senior year, but can enroll as early as the junior year.

²Students must earn 3 hours in three of the following areas for a total of 9 hours:

1. Religion in Culture: REL 213, REL 231, REL 234, REL 237, REL 335, REL 340, REL 341, REL 370, REL 410, REL 419, REL 440, or REL 480.*
2. American Religions: REL 124, REL 226, REL 235, REL 240, REL 241, REL 371, or REL 481.*
3. Middle Eastern and European Religions: REL 110, REL 112, REL 223, REL 224, REL 228, REL 236, REL 238, REL 311, REL 332, REL 347, REL 372, REL 420, or REL 482.*
4. Asian Religions: REL 208, REL 210, REL 220, REL 321, REL 373, or REL 483.*

*Depending on the topic, the following courses may fulfill the requirement for any area: REL 360, REL 361, REL 460, or REL 461.

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. A minimum of 9 hours must be earned in 300- or 400-level courses. Students can count a maximum of 6 hours of online REL courses toward the major or minor. Students can earn a maximum of 9 hours (i.e., three separate courses) of any variable topics courses that have different titles (i.e., REL 360, REL 361, REL 370, REL 371, REL 372, REL 373, REL 460, REL 461, REL 480, REL 481, REL 482, REL 483, and REL 490). For more information on degree requirements, visit the Degrees page of the department's Web site (www.as.ua.edu/rel). Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Russian Minor

Department of Modern Languages and Classics, 200 B.B. Comer Hall
www.as.ua.edu/mlc
Russian@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Russian requires the successful completion of the following 20 semester hours:

Courses	Hours
RUS 101	4
RUS 102	4
RUS 201	3
RUS 202	3
RUS 309 and RUS 310 or RUS 361 and RUS 362	6
Total	20

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus or in UA-sponsored programs of study abroad.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Sociology Minor

Department of Criminal Justice, 432-C Farrah Hall
www.as.ua.edu/cj
sociology@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The sociology minor requires the successful completion of the following 18 semester hours:

Courses	Hours
SOC 101	3
SOC 302	3
SOC electives 300 or 400 level	6
SOC electives	6
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Spanish Major (BA)

Department of Modern Languages and Classics, 200 B.B. Comer Hall

www.as.ua.edu/mlc

Spanish@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in Spanish must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Course placement information appears in the Spanish course description section of the catalog. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form.

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in Spanish requires the successful completion of the following 27 semester hours:

Courses	Hours
SP 353	3
SP 356	3
SP 364 or SP 366	3
SP 371, SP 372, SP 375, or SP 376	6
SP 491	3
SP elective 400 level	3
SP electives 300 or 400 level	6
Total	27

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in Spanish requires the successful completion of the following courses:

Courses	Hours
SP 101 and SP 102 (or SP 103)*	4-8
SP 201*	3
SP 202*	3

*Or proficiency or placement.

Required minor. This major requires the completion of a minor.

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Spanish program at The University of Alabama offers high-quality education and a wide range of learning opportunities including the highly regarded Alabama in Spain Summer Abroad Program in Alcalá de Henares, the new Spanish Outreach Program in the Tuscaloosa/Northport area, and UA's semester and year abroad programs in Spain. The Department of Modern Languages and Classics also offers honors courses in Spanish.

Credit option. Except for heritage language or bilingual individuals, students placed in SP 201 or higher and who earn a grade of "C-" or higher in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
SP 201	SP 103 (4 hours)
SP 202	SP 103 and SP 201 (7 hours)
SP 300- or 400-level	SP 103, SP 201, SP 202 (10 hours)

Spanish Minor

Department of Modern Languages and Classics, 200 B.B. Comer Hall

www.as.ua.edu/mlc

Spanish@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in Spanish requires the successful completion of the following 15 semester hours:

Courses	Hours
SP 353	3
SP 356	3
SP 364 or SP 366	3
SP elective 300 or 400 level	6
Total	15

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus. Courses taken in the UA program in Alcalá may be used to satisfy the residency requirement.

Ancillary courses. Grades in ancillary courses are not computed into the minor GPA. The minor in Spanish requires the successful completion of the following courses:

Courses	Hours
SP 101 and SP 102 (or SP 103)*	4-8
SP 201*	3
SP 202*	3

*Or proficiency or placement.

Credit option. Except for heritage language or bilingual individuals, students placed in SP 201 or higher and who earn a grade of "C-" or higher in the course are granted additional credit upon written petition:

Placement	Credit received with grade of "Pass"
SP 201	SP 103 (4 hours)
SP 202	SP 103 and SP 201 (7 hours)
SP 300- or 400-level	SP 103, SP 201, SP 202 (10 hours)

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Student-Designed Minor

New College, 201 Lloyd Hall

www.as.ua.edu/nc/

newcollege@as.ua.edu

The student-designed minor originates with a student's interest in issues or questions that cross disciplinary lines.

Admission into the minor. Proposals for the minor are developed by the student in consultation with faculty. Proposals require a clearly defined rationale, a tentative set of courses (including one activity that clearly integrates the program of study), and identification of a faculty sponsor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The student-designed minor requires successful completion of the following 21 semester hours:

Courses	Hours
Electives 300 or 400 level*	9
Electives*	12
Total	21

*Coursework should be selected from at least two disciplines and from a set of courses based on the approved proposal.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

The Department of Theatre and Dance (TH, DN)

The Department of Theatre and Dance offers undergraduate majors in theatre and dance and a minor in theatre.

Theatre Major (BA)

Department of Theatre and Dance, 115 Rowand-Johnson Hall
www.as.ua.edu/theatre
theatre@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in theatre must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form. (Also see "Additional Major Requirements.")

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in theatre requires the successful completion of the following 36 semester hours:

Courses	Hours
TH 141	3
TH 120 or TH 220	3
TH 291	1
TH 361 or TH 470	3
TH 391	1
TH 451	3
TH 452	3
TH 491	1
TH electives 300 or 400 level	1
TH electives	17
Total	36

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. The theatre major does not require ancillary courses. (For exceptions, see "Musical theatre track" below.)

Required minor. The theatre major requires the completion of a minor. (For exceptions, see "Musical theatre track" below.)

Additional major requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Theatre and Dance offers various programs of study leading to the BA degree in theatre. These program areas include acting, musical theatre, theatre management and administration, scene design and technical production, and costume design and production. Please see the principal advisor in each of these areas for entrance requirements and a suggested course of study.

The highly motivated student who seeks to be well prepared for either the profession or graduate education may choose to take more hours in the major than the specified 36. This plan of action is highly desirable and strongly advised, but is not required. If more than 42 hours are accrued in the major, the student will be exceeding the 120 credit-hour requirement for graduation by the number of hours taken over the single subject 42 semester-hour limit.

Theatre Major—Musical Theatre Track (BA)

Department of Theatre and Dance, 115 Rowand-Johnson Hall
www.as.ua.edu/theatre
theatre@as.ua.edu

Degree requirements. Students earning the bachelor of arts (BA) degree with a major in theatre must complete all University, college (see pp. 52-54), and departmental degree requirements. These include the general education requirements, the following major requirements, all requirements for an approved minor, and sufficient other credits to total a minimum of 120 applicable semester hours.

Admission into the major. Students are expected to declare a major formally no later than the fourth semester of full-time enrollment (or at 61 semester hours for transfer students). With the assistance of an advisor in the major department, students should complete the "Declaration of Major" form. (Also see "Additional Major Requirements.")

Grade point average. A 2.0 grade point average in the major is required for completion of the degree. The major GPA is calculated based on all courses applicable to the major that the student has attempted at UA.

Major courses. The major in theatre requires the successful completion of the following 36 semester hours:

Courses	Hours
TH 141	3
TH 120 or TH 220	3
TH 165	3
TH 166	3
TH 291	1
TH 361 or TH 470	3
TH 391	1
TH 451	3
TH 452	3
TH 465	3
TH 466	3
TH 491	1
TH electives	6
Total	36

Upper-level residency. A minimum of 12 hours of 300- and 400-level courses in the major must be earned on this campus.

Ancillary courses. Grades in ancillary courses are not computed into the major GPA. The major in theatre—musical theatre track requires the successful completion of the following courses outside the major:

Courses	Hours
DN 210	3
DN 310	3
DN 300/400*	6
DN elective*	6
MUA 174	4
MUA 374**	2
Total	24

*To be chosen from the following technique courses: DN 101, DN 111, DN 121, DN 122, DN 151, DN 200, DN 210, DN 211, DN 212, DN 221, DN 222, DN 251, DN 252, DN 300, DN 310, DN 311, DN 312, DN 321, DN 322, DN 352, DN 400, DN 411, DN 412, DN 421, DN 422, or DN 452. Completion of additional hours of dance technique is highly recommended.

**Completion of 2 additional hours of MUA 374 is highly recommended.

Required minor. The theatre major—musical theatre track does not require the completion of a minor.

Additional major requirements. The musical theatre track is designed for students preparing for professional careers or graduate study in musical theatre. Admission is by audition, and students are expected to show continued progress in acting, singing, and dance. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the

major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Special opportunities. The Department of Theatre and Dance offers various programs of study leading to the BA degree in theatre. These program areas include acting, musical theatre, theatre management and administration, scene design and technical production, and costume design and production. Please see the principal advisor in each of these areas for entrance requirements and a suggested course of study.

The highly motivated student who seeks to be well prepared for either the profession or graduate education may choose to take more hours in the major than the specified 36. This plan of action is highly desirable and strongly advised, but is not required. If more than 42 hours are accrued in the major, the student will be exceeding the 120 credit-hour requirement for graduation by the number of hours taken over the single subject 42 semester-hour limit.

Theatre Minor

Department of Theatre and Dance, 115 Rowand-Johnson Hall

www.as.ua.edu/theatre

theatre@as.ua.edu

Admission into the minor. Students are expected to formally declare a minor. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The theatre minor requires successful completion of the following 21 semester hours:

Courses	Hours
TH 291.....	1
TH electives 300 or 400 level.....	6
TH electives.....	14
Total	21

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. If necessary, students may consult with the minor department academic advisor for questions concerning minor requirements.

Women's Studies Minor

Department of Gender and Race Studies, 104 Manly Hall

www.as.ua.edu/ws

womenstudies@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in women's studies requires successful completion of the following 18 semester hours:

Courses	Hours
WS 200	3
WS 430 or WS 470	3
WS elective 300 or 400 level.....	3
WS elective or approved elective*	9
Total	18

*Related courses such as AMS 340, COM 340, COM 425, COM 469, EN 373, NEW 415, PY 371, and other approved courses may be applied to the women's studies minor. For approved electives, contact the department chair.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Minors Outside of the College of Arts and Sciences

Advertising Minor

College of Communication and Information Sciences

412 Reese Phifer Hall

(205) 348-7158

cis.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before enrolling in APR 260.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. Due to the APR prerequisite-based curriculum, the minor in advertising takes at least five semesters to complete and requires the successful completion of the following 22 semester hours:

Courses	Hours
MC 101	3
JN 150	1
APR 221	3
APR 260	3
APR 300	3
APR 322	3
APR 422	3
APR 418 or APR 423	3
Total	22

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Communication Studies Minor

College of Communication and Information Sciences

203 Phifer Hall

(205) 348-5997

<http://cis.ua.edu/cstudies>

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in communication studies requires the successful completion of the following 21 semester hours:

Courses	Hours
COM 100 or COM 101.....	3
COM electives 300 or 400 level.....	6
COM electives	12
Total	21

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. A grade of "C-" or higher is required in all communication studies courses counted toward the minor. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Computer Science Minor

College of Engineering

Department of Computer Science, 101 Houser Hall

www.cs.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in computer science requires the successful completion of the following 18 semester hours:

Courses	Hours
CS 121.....	1
CS 150.....	2
CS 160.....	1
CS 250.....	2
CS 260.....	3
CS 315.....	3
CS 350, CS 351, or CS 352.....	2
CS 360.....	4
Total	18

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Computing Technology and

Applications Minor

College of Engineering, Department of Computer Science

101 Houser Hall

www.cs.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in computing technology and applications requires the successful completion of the following 18 semester hours:

Courses	Hours
CS 102.....	3
CS 466.....	3
CS electives 300 or 400 level.....	3
CS electives.....	9
Total	18

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Consumer Sciences Minor

College of Human Environmental Sciences, 101 Doster Hall

www.ches.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in consumer sciences requires the successful completion of the following 18 semester hours:

Courses	Hours
CSM 201.....	3
CSM 204.....	3
CSM electives 300 or 400 level.....	6
CSM electives.....	6
Total	18

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Engineering Minor

College of Engineering, 150 H.M. Comer Hall

www.coeweb@eng.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in engineering requires the successful completion of 18 semester hours of engineering courses. The Type 1 minor is a specialized program from any of the College of Engineering disciplines. The Type 2 minor is a general minor in engineering. A list of appropriate courses is available from the associate dean for academic programs.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Entrepreneurship Minor

Culverhouse College of Commerce and Business Administration
105 Alston Hall
(205) 348-6183
www.cba.ua.edu
entrepreneurship@as.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in entrepreneurship requires the successful completion of the following 19 semester hours:

Courses	Hours
AC 210.....	4
EC 110.....	3
MGT 300.....	3
MGT 386.....	3
MGT 482.....	3
MKT 410, MKT 321, or elective*	3
Total	19

*Contact the entrepreneurship coordinator for a list of approved electives.

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. Non-business majors must complete the course-specific prerequisites for each minor course and must have earned a minimum of 61 semester hours prior to enrolling in the 300- and 400-level courses.

Additional minor requirements. A student in the College of Arts and Sciences who wishes to pursue this minor must have a 2.5 GPA or higher for all college-level work attempted and for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the associate dean for undergraduate programs of the Culverhouse College of Commerce and Business Administration for admission to the business minor if the student's grade point average for the last 30 hours attempted is 2.5 or higher. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student's grade point average subsequently falls below 2.5 provided all other enrollment requirements are met.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours in C&BA courses (excluding EC 110, EC 111, and ST 260). Failure to comply with these policies will result in administrative disenrollment from C&BA courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Food and Nutrition Minor

College of Human Environmental Sciences, 101 Doster Hall
www.ches.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in food and nutrition requires the successful completion of a minimum of 18 semester hours:

Courses	Hours
NHM 101	3
NHM 201	3
NHM 253	3
NHM electives 300 or 400 level.....	6
NHM electives	3
Total	18

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

General Business Minor

Culverhouse College of Commerce and Business, 10 Bidgood Hall
(205) 348-4537
www.cba.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in business administration requires the successful completion of the following 22 semester hours:

Courses	Hours
AC 210.....	4
EC 110.....	3
LGS 200	3
ST 260	3
FI 302, MGT 300, MKT 300, or OM 300.....	6
Total	19

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. Non-business majors must complete the course-specific prerequisites for each minor course and must have earned a minimum of 61 semester hours prior to enrolling in the 300- and 400-level courses.

Additional minor requirements. A student in the College of Arts and Sciences who wishes to pursue this minor must have a 2.5 GPA or higher for all college-level work attempted and for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the associate dean for undergraduate programs of the Culverhouse College of Commerce and Business Administration for admission to the business minor if the student's grade point average for the last 30 hours attempted is 2.5 or higher. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student's grade point average subsequently falls below 2.5 provided all other enrollment requirements are met.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours in C&BA courses (excluding EC 110, EC 111, and ST 260). Failure to comply with these policies will result in administrative disenrollment from C&BA courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Human Development and Family Studies

Minor

College of Human Environmental Sciences, 101 Doster Hall
ches.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in human development and family studies requires successful completion of the following 18 semester hours:

Courses	Hours
HD 202	.3
HD 205	.3
HD 302	.3
HD 382	.3
HD 462	.3
HD elective 300 or 400 level.	.3
Total	18

Upper-level residency. A minimum of 6 hours of 300- and 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Journalism Minors

College of Communication and Information Sciences
490 Reese Phifer Hall
(205) 348-7155
<http://www.ccom.ua.edu/journalism/>

The Department of Journalism offers three minor options: the general journalism minor, the photojournalism minor and the journalism design minor.

Admission into the minor. Students are expected to formally declare a minor. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA and all work attempted applicable to the minor throughout the entire higher education career.

Minor courses. The minor in journalism requires the successful completion of 20 semester hours as follows:

General Journalism Minor	Hours
Courses	
MC 101	.3
JN 101	1
JN 150	1
JN 260	3
JN 261	3
JN 311	3
JN 315	3
MC 401	3
Total	20

Photojournalism Minor	Hours
Courses	
MC 101	.3
JN 101	1

JN 150	1
APR 260	3
JN 261	1
JN 311	3
JN 361	3
JN 461 or JN 382	3
Total	20

Journalism Design Minor

Courses	Hours
MC 101	3
JN 101	1
JN 150	1
APR 260	3
JN 261	3
JN 311	3
JN 312	3
JN 320	3
Total	20

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. Each student must meet with an advisor in the major department for academic planning each semester. College advisors also are available for additional assistance with minor, college, and University requirements.

Management Minor

Culverhouse College of Commerce and Business Administration
10 Bidgood Hall
(205) 348-4537
www.cba.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in management requires the successful completion of the following 22 semester hours:

Courses	Hours
AC 210	4
MGT 300	3
MGT 301	3
MGT 320	3
MGT 386	3
MGT 341, MGT 351, MGT 420, or MGT 421	6
Total	22

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. Non-business majors must complete the course-specific prerequisites for each minor course and must have earned a minimum of 61 semester hours prior to enrolling in the 300- and 400-level courses.

Additional minor requirements. A student in the College of Arts and Sciences who wishes to pursue this minor must have a 2.5 GPA or higher for all college-level work attempted and for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the associate dean for undergraduate programs of the Culverhouse College of Commerce and Business Administration for admission to the business minor if the student's grade point average for the last 30 hours attempted is 2.5 or higher. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student's grade point average subsequently falls below 2.5 provided all other enrollment requirements are met.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours in C&BA courses (excluding EC 110, EC 111, and ST 260). Failure to comply with these policies will result in administrative disenrollment from C&BA courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Mathematics Education Minor

College of Education

College of Arts and Sciences students majoring in mathematics may also earn a minor in mathematics education.

Public Relations Minor

College of Communication and Information Sciences
412 Reese Phifer Hall
(205) 348-7158
cis.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before enrolling in APR 260.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. Due to the APR prerequisite-based curriculum, the minor in public relations takes at least five semesters to complete and requires the successful completion of the following 22 semester hours:

Courses	Hours
MC 101	3
JN 150	1
APR 231	3
APR 260	3
APR 300	3
JN 311	3
APR 332	3
APR 415 or APR 419 or APR 432	3
Total	22

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Social Welfare Minor

School of Social Work, 116 Little Hall
www.sw.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in social welfare requires the successful completion of the following 18 semester hours:

Courses	Hours
SW 100.....	3
SW 200.....	3
SW 351.....	3
SW electives 300 or 400 level	3
SW elective.....	6
Total	18

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

Telecommunication and Film Minor

College of Communication and Information Sciences
484-D Reese Phifer Hall, (205) 348-6350
www.com.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in telecommunication and film requires the successful completion of the following 21 semester hours:

Courses	Hours
MC 101	3
TCF 100.....	3
TCF electives 300 or 400 level	6
TCF electives.....	9
Total	21

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. This minor does not require ancillary courses.

Additional minor requirements. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

World Business Minor

Culverhouse College of Commerce and Business Administration
10 Bidgood Hall
(205) 348-4537
www.cba.ua.edu

Admission into the minor. Students are expected to declare a minor formally. With the assistance of an advisor in the minor department, students should complete the "Declaration of Minor" form before or during the third year of full-time enrollment.

Grade point average. A 2.0 grade point average in the minor is required for completion of the degree. The minor GPA is calculated based on all courses applicable to the minor that the student has attempted at UA.

Minor courses. The minor in world business requires the successful completion of the following 22 semester hours:

Courses	Hours
AC 210.....	4
IBA 350.....	3
PSC 434	3
MKT 300.....	3

MKT 455	3
IBA 351, IBA 459, IBA 460, EC 440, EC 442, EC 430, EC 431, or EC 453	6
Total	22

Upper-level residency. A minimum of 6 hours of 300- or 400-level courses in the minor must be earned on this campus.

Ancillary courses. Non-business majors must complete the course-specific prerequisites for each minor course and must have earned a minimum of 61 semester hours prior to enrolling in the 300- and 400-level courses.

Additional minor requirements. A student in the College of Arts and Sciences who wishes to pursue this minor must have a 2.5 GPA or higher for all college-level work attempted and for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the associate dean for undergraduate programs of the Culverhouse College of Commerce and Business Administration for admission to the business minor if the student's grade point average for the last 30 hours attempted is 2.5 or higher. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student's grade point average subsequently falls below 2.5 provided all other enrollment requirements are met.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours in C&BA courses (excluding EC 110, EC 111, and ST 260). Failure to comply with these policies will result in administrative disenrollment from C&BA courses. Students are responsible for ensuring that they have met all University, college, major, and minor requirements. However, each student must meet with an advisor in the major department for academic planning and to be cleared for registration each semester. College advisors are also available for additional assistance with minor, college, and University requirements.

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COLLEGE OF ARTS AND SCIENCES

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LUOHENG HAN, BS, PhD, Associate Dean.

BEVERLY ROSKOS-EWOLDSEN, BS, PhD, Associate Dean.

JIMMY J. WILLIAMS, BS, MS, PhD, Associate Dean.

THOMAS WOLFE, BM, MM, Associate Dean.

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TOM ALLEN, BA, MA, Academic Advisor.

CYNTHIA H. CHANNELL, BA, MA, Academic Advisor.

MATT CHENAULT, BS, Academic Advisor.

PAMELA DERRICK, BA, MA, Director of Learning Communities.

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REBECCA PAUL FLORENCE, BA, Director of College Relations and Associate Director of Development.

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SUSAN HALLIDAY, BS, Manager of Special Events and Endowment Accounts.

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GINGER DUREN HUDSON, BS, MA, Academic Advisor.

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NANCY T. SHOCKLEY, BA, Director of Pre-major Student Services.

JEANNIE THOMLEY, BS, MEd, Registrar.

JAMES VAIL, BS, Director of Financial Affairs.

ANN WEBB, BA, MA, PhD, Assistant Dean and Director of Student Services.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to rank listed.

American Studies

ADRIAN, LYNNE M., BA (DePaul), MA (Minnesota), PhD (Iowa). Associate Professor and Chairperson, 1985, 2007.

HUBBS, JOLENE, BA (Scripps), MA, PhD (Stanford). Assistant Professor, 2009.

INNIS-JIMENEZ, MICHAEL, BA (Columbia), MA, PhD (Iowa). Assistant Professor, 2008.

MEGRAW, RICHARD B., BS (Missouri Valley), MA, PhD (Louisiana State). Associate Professor, 1994, 2000.

MORGAN, STACY, BA (Wesleyan), PhD (Emory). Associate Professor, 2001, 2007.

SPEARS, ELLEN, BA (William and Mary), MA, PhD (Emory). Assistant Professor, 2009.

TANG, EDWARD, AB (Vassar), MA, PhD, (New York). Associate Professor, 1998, 2004.

WEISBARD, ERIC, BA (Princeton), MA, PhD (California–Berkeley). Assistant Professor, 2009.

Anthropology

BLITZ, JOHN H., BA (Alabama), MS (Southern Mississippi), PhD (CUNY). Associate Professor, 2003, 2007.

BROWN, IAN W., BA (Harvard), MA, PhD (Brown). Professor, 1991, 1993.

CARBALLO, DAVID, BA (Colgate), MA, PhD (California–Los Angeles). Assistant Professor, 2009.

DRESSLER, WILLIAM W., BA (Grinnell), MA (Missouri), PhD (Connecticut). Professor, 1978, 1990.

DECARO, JASON. BS (State Univ. of NY at Binghamton), MA, PhD (Emory). Assistant Professor, 2006.

GALBRAITH, MARYSIA, BA (Sarah Lawrence College), MA, PhD (California–San Diego). Associate Professor, 1998, 2005.

JACOBI, KEITH P., BA (Northwestern), MA (Southern Illinois), PhD (Indiana). Associate Professor, 1998, 2005.

KNIGHT, VERNON J., BA (Alabama), MA (Toronto), PhD (Florida). Professor, 1988, 1997.

LECOUNT, LISA J., BA (Eastern Illinois), MA, PhD (UCLA). Associate Professor, 2000, 2009.

LYNN, CHRISTOPHER, BA (CUNY), MA, PhD (SUNY–Albany). Assistant Professor, 2009.

MAXWELL, ALLEN RICHMOND, BA, MA (Michigan), PhD (Yale). Professor, 1974, 2003.

MURPHY, MICHAEL DEAN, BA (California–Santa Barbara), MA, D Phil, PhD (California–San Diego). Professor and Chairperson, 1978, 1999.

OTHS, KATHRYN S., BA (Stanford), MA, PhD (Case Western Reserve). Professor, 1990, 2005.

SINGER, NORMAN JOSEPH, BS (Pennsylvania), JD (Boston), SJD (Harvard). Professor, 1971, 1977.

Art and Art History

AMAKI, AMALIA, BA (Georgia State); BA (University of New Mexico), MA, PhD (Emory). Professor, 2007.

BAKER, W. LOWELL, BFA (Phillips), MFA (Wichita State). Professor of Studio Art, 1991, 2002.

BARNES, THOMAS, BA, MFA (South Florida). Professor of Studio Art, 1980, 2001.

BURKE, GAY, BA (Trinity), MFA (Florida). Professor of Studio Art, 1973, 1989.

CURZON, LUCY, BA (University of King's College); MA (Dalhousie); PhD (University of Rochester). Assistant Professor, 2007.

DOOLEY, WILLIAM, BA (Georgia Southern), MFA (South Carolina). Associate Professor of Studio Art, Director of Sarah Moody Gallery of Art, 1988, 1995.

EVANS, BRIAN, BM (NCSA), MFA (CalArts), DMA (Illinois). Assistant Professor of Studio Arts, 2002.

JORDAN, CHRISTOPHER, BA (Colby), MFA (Rochester Institute of Technology). Assistant Professor, 2009.

KRAPF, UTA-MARIA, BA, MA, MFA (Iowa). Professor of Studio Art, 1988, 2001.

MARSHALL, SARAH, BFA (Carnegie Mellon), MFA (Iowa). Assistant Professor of Studio Art, 2001.

MELLOW, ROBERT, BA (Alabama), PhD (North Carolina). Associate Professor of Art History, 1971, 1980.

NANCARROW, MINDY, BA (New Mexico), MA (Texas), PhD (Kansas). Professor of Art History, 1988, 2003.

PAGANI, CATHERINE M., BSc (Western Ontario), MMSt, PhD (Toronto). Professor of Art History and Chairperson, 1993, 2003.

SHINEMAN, SKY, BS, MFA (Ohio State), Assistant Professor, 2009.

WEDDERSPON, CRAIG, BFA (Florida International), MFA (Virginia Commonwealth). Assistant Professor of Studio Art, 2000.

Biological Sciences

BENKE, ARTHUR C., BS (Cornell), MS, PhD (Georgia). Professor, 1984.

BENSTEAD, JONATHAN P., BS (University of London), PhD (Georgia). Assistant Professor, 2005.

BROWN, JOE, BS (Alabama), MS (Cambridge), PhD (North Carolina–Chapel Hill). Assistant Professor, 2007.

CALDWELL, GUY A., BS (Washington and Lee), PhD (Tennessee). Associate Professor, 1999, 2005.

CALDWELL, KIM A., BS (SUNY–Fredonia), MS, PhD (Tennessee). Assistant Professor, 2004.

CHERRY, JULIA A., BS (Rhodes), PhD (Alabama). Assistant Professor, 2006.

CHURCHILL, PERRY F., BS (Lawrence Institute), PhD (Wayne State). Associate Professor, 1986, 1992.

- CLARK, JOHN L., BS (Vermont), PhD (George Washington). Assistant Professor, 2006.
- DUFFY, CAROL L., BS (Northern Arizona), PhD (Iowa). Assistant Professor, 2007.
- EARLEY, RYAN, BS (Syracuse), MS, PhD (Louisville). Assistant Professor, 2008.
- EDMONDS, JENNIFER W., BS (Birmingham-Southern), MS (Alabama), PhD (Arizona State). Assistant Professor, 2008.
- FINDLAY, ROBERT H., BS (Connecticut), MS, PhD (Florida State). Associate and Bishop Professor of Biology, 2003.
- FRANCKO, DAVID A., BS, MS (Kent State), PhD (Michigan State). Professor, Assistant Vice President for Academic Affairs and Dean of The Graduate School, 2006.
- GRAF, DANIEL, BS (Minnesota), MS (Northeastern), PhD (Michigan). Assistant Professor, 2008.
- HARRIS, PHILLIP M., BS (Arizona), MS, PhD (Oregon State). Assistant Professor, 2002.
- HEATH, HARRY E., BS, PhD (Oklahoma State). Associate Professor, 1973, 1983.
- HURYN, ALEXANDER D., BS, MS (Kent State), PhD (Georgia). Associate Professor, 2003.
- JENNY, MATTHEW J., BS (South Alabama), MS, PhD (Medical University of South Carolina). Assistant Professor, 2009.
- JOHNSON, MARGARET, BS (Lehman), MS, PhD (Albert Einstein). Associate Professor, 1990, 1997.
- LEBLANC, PAUL A., BS (Boston College), PhD (Cornell). Professor, 1984, 1996.
- LOPEZ-BAUTISTA, JUAN M., BS (Nuevo Leon), MS (North Carolina-Wilmington), PhD (Louisiana State). Assistant Professor, 2003.
- MARCUS, STEVAN, BA, PhD (Tennessee-Knoxville), Associate Professor, 2006.
- MORTAZAVI BEHZAD DEUG, License, Maîtrise (University of Pierre and Marie Curie, Paris, France), PhD (Florida State). Assistant Professor, 2008.
- O'DONNELL, JANIS M., BS (Georgia), PhD (Johns Hopkins). Professor, 1989, 1995.
- OLSON, JULIE B., BA (Miami), PhD (North Carolina-Chapel Hill). Associate Professor, 2001.
- POWELL, MARTHA J., BS (Western Carolina), PhD (North Carolina-Chapel Hill). Professor, 1997.
- RAMONELL, KATRINA M., BS (Auburn), MS (Columbia), PhD (Louisiana State). Assistant Professor, 2003.
- RASCO, JANE, BS (Montevallo), PhD (Alabama). Assistant Professor, 2006.
- RISSLER, LESLIE J., BS (Indiana State), MS (Utah State), PhD (Virginia). Assistant Professor, 2003.
- SECOR, STEPHEN M., BS (SUNY), MS (Oklahoma), PhD (California-Los Angeles). Associate Professor, 2001.
- SLOAN, GARY L., BS (Tulsa), MS, PhD (Oklahoma). Professor, 1974, 1987.
- SMITH-SOMERVILLE, HARRIET E., BS (Alabama), PhD (Texas). Professor and Interim Chair, 1976, 1986.
- SOBECKY, PATRICIA, BS (Pittsburgh), PhD (Georgia). Professor and Chairperson, 2009.
- SPONSELLER, RYAN A., BS (Baldwin Wallace), MS (Virginia Polytechnic Institute), PhD (Arizona State). Assistant Professor, 2008.
- STARR, GREGORY, BS (Nevada-Las Vegas), MS, PhD (Florida International). Assistant Professor, 2008.
- STEPHENSON, EDWIN C., BS (North Carolina-Chapel Hill), PhD (Yale). Professor, 1991, 2004.
- WARD, AMELIA K., BS (South Alabama), MS, PhD (Michigan State). Professor, 1981, 1994.
- WARD, G. MILTON, BS (Alabama), MS (West Florida), PhD (Michigan State). Associate Professor, 1981, 1987.
- YODER, JOHN H., BA (North Alabama), BS (Alabama), PhD (Colorado). Assistant Professor, 2007.
- BOWMAN, MICHAEL K., BS (Kansas), PhD (Wayne State). Associate Professor, 2007.
- BUSENLEHNER, LAURA S., BS (Auburn), PhD (Texas A&M). Assistant Professor, 2007.
- CASSADY, CAROLYN J., AB (Pfeiffer College), PhD (Purdue). Associate Professor, 2000.
- DIXON, DAVID A., BS (Cal Tech), PhD (Harvard). Robert Ramsey Professor, 1996, 2004.
- GUPTA, ARUNAVA, MSc (Indian Institute of Technology), MA (Columbia), PhD (Stanford). MINT Professor, 2004.
- FRANTOM, PATRICK, BS (Louisiana State), PhD (Texas A&M), Assistant Professor, 2009.
- JENNINGS, MICHAEL P., BS (Illinois), PhD (Purdue). Associate Professor and Director of Undergraduate Studies, 2003, 2009.
- METZGER, ROBERT M., BA (California-Los Angeles), PhD (Cal Tech), Professor, 1986.
- NIKLES, DAVID E., BS (Akron), PhD (Case Western Reserve). Professor, 1990, 2002.
- PAN, SHANLIN, BS (Lanzhou), PhD (Rochester). Assistant Professor, 2008.
- ROGERS, ROBIN D., BS (Alabama), PhD (Alabama). Robert Ramsay Professor, 1996, 2005.
- SHAUGHNESSY, KEVIN H., BS (Nebraska), PhD (Stanford). Associate Professor and Chairperson, 1999, 2005.
- SNOWDEN, TIMOTHY S., BS (Clemson), PhD (Texas). Associate Professor, 2003, 2009.
- STREET, SHANE C., BS (VPI&SU), PhD (Illinois). Associate Professor and Director of Graduate Recruiting, 1997, 2003.
- SZULCZEWSKI, GREGORY J., BS (Michigan), PhD (Wayne State). Associate Professor, 1997, 2003.
- THRASHER, JOSEPH S., BS, PhD (VPI&SU). Professor, 1984, 1995.
- TIMKOVICH, RUSSELL, BS (Michigan State), PhD (Cal Tech). Professor, 1985, 1990.
- VINCENT, JOHN B., BS (Murray State), PhD (Indiana). Professor, 1991, 2001.
- WOSKI, STEPHEN A., BS (Emory), MS, PhD (Michigan). Associate Professor and Director of Graduate Studies, 1994, 2000.

Communicative Disorders

- BARBER, ANGELA, BS, MS (Missouri State), PhD (Florida State). Assistant Professor, 2008.
- BURKHALTER, CARMEN L., BA (Columbia College), MS, PhD (Alabama). Associate Professor and Senior Associate Dean, 1995, 2000.
- DAVIS, PRISCILLA NELLUM, BA, MA (Memphis), PhD (SUNY-Buffalo). Professor, 2004.
- DUE, KATHLEEN S., BME (Montevallo), MS (Alabama), SLPD (Nova). Clinic Coordinator, 2008.
- FORMBY, C. CRAIG, BA (Auburn), MS (Memphis), PhD (Washington University). Distinguished Graduate Research Professor and Director, Office for Research Faculty Development, 2006.
- GASKILL, CHRISTOPHER S., BA (Rhodes College), MM (Emory University), MA, PhD (Tennessee). Assistant Professor, 2006.
- HAY-MCCUTCHEON, MARCIA, BA, BEd (Queen's), DipDeafEd (Sir James Whitney), MA (Tennessee), PhD (Iowa). Associate Professor, 2008.
- MOSS, LAURA B., BA (Alabama), MS (Texas Woman's University), SLPD (Nova). Assistant Professor, 2005, 2008.
- SCHMITT, JOHN F., BA, MA (Akron), PhD (Wichita State). Professor and Associate Dean, Graduate School, 1980, 1989.
- STECKOL, KAREN F., BS (Indiana), MS, PhD (Memphis). Professor and Chairperson, 2003.

Criminal Justice

- HOWELL, REBECCA, BS, MA (Old Dominion University). Assistant Professor, 2008.
- JOHNSON, IDA MAE, BA (Alabama State), MS (Alabama), PhD (Florida State). Professor, 1986, 1999.
- LANKFORD, ADAM, BA (Haverford College), MS, PhD (American University). Assistant Professor, 2008.
- LICHENSTEIN, BRONWEN, BA, PhD (University of Canterbury, New Zealand). Assistant Professor, 2002, 2004.
- LO, CELIA C., BA (Hong Kong Shue Yue), MA, PhD (Alabama). Professor and Chair, 2002, 2007.

Chemistry

- ARDUENGO, ANTHONY J., III, BS, PhD (Georgia Tech). Saxon Professor, 1999.
- BAKKER, MARTIN G., BS, PhD (Canterbury, New Zealand). Associate Professor, 1990, 1996.
- BLACKSTOCK, SILAS C., BS (Baylor), PhD (Wisconsin). Professor, 1996, 2003.

PROHASKA, ARIANE, BA (Baldwin-Wallace College), MA, PhD (The University of Akron). Assistant Professor, 2008.
WILLIAMS, JIMMY J., BS, MS, PhD (Florida State). Associate Professor, 1989, 1995.

FORDE, DAVID R., BS (Victoria), MA (Manitoba), PhD (Alberta). Professor, 2007.

English

AINSWORTH, DAVID, BS, BA (Arizona), PhD (Wisconsin–Madison). Assistant Professor, 2008.
BEHN, ROBIN, AB (Oberlin), MA (Missouri), MFA (Iowa). Professor and Director, MFA Program in Creative Writing, 1988, 2002.
BEIDLER, PHILIP D., AB (Davidson), MA, PhD (Virginia). Professor, 1974, 1984.
BILKWAKESH, NIKHIL, BA (Massachusetts), PhD (New York). Assistant Professor, 2008.
BROUWER, JOEL, BA (Sarah Lawrence), MA (Syracuse). Associate Professor, 2002, 2005.
BURKE, JOHN J., BA (Boston College), MA (Northwestern), PhD (UCLA). Professor and Director of the English Honors Program, 1974, 1985.
COOK, ALEXANDRA, BA (California–Santa Cruz), MA, PhD (California–Santa Barbara). Assistant Professor, 2006.
CROWLEY, JOHN W., BA (Yale), MA, PhD (Indiana). Professor, 2002.
DAVIES, CATHERINE E., BA (Pomona College), MA (Stanford), PhD (California–Berkeley). Professor and Chairperson, 1989, 2007.
DAYTON-WOOD, AMY E., BA (Truman State), MA, PhD (Arizona). Assistant Professor, 2005.
DROUIN, JENNIFER, BA (Sainte–Anne), MA (Acadia), PhD (McGill). Assistant Professor, 2008.
HANDA, CAROLYN, BA (Loyola Marymount), MA (San Francisco State), PhD (UCLA). Professor, 2005.
HORNSBY, JOSEPH A., BA, MA, JD (Alabama), PhD (Toronto). Associate Professor and Director of Blount Undergraduate Initiative, 1984, 1989.
LAZER, HENRY A., AB (Stanford), MA, PhD (Virginia). Professor and Associate Provost for Academic Affairs, 1977, 2006.
LIU, DILIN, BA (Jiangxi), MAT. (Oklahoma City), PhD (Oklahoma State). Associate Professor and Coordinator of MA-TESOL, 2006.
MANORA, YOLANDA M., BA (Alabama), MA, PhD (Emory). Associate Professor and Director of Undergraduate Studies, 2003, 2008.
MARTONE, MICHAEL, AB (Indiana), MA (Johns Hopkins). Professor, 1996.
MCELROY, TRICIA, BA (Texas A&M), MA (Southern Methodist), D Phil (Oxford). Assistant Professor, 2006.
MCNAUGHTON, JAMES, BBA (Georgia), MA, PhD (Michigan). Assistant Professor, 2007.
NELSON, ROBERT, JR., BFA, MA (Southern Illinois), PhD (Purdue). Assistant Professor, 2009.
NIELER, LUKE, BA (Gettysburg), MA, PhD (SUNY-Buffalo). Associate Professor and Director of the Writing Center, 2007.
O'DAIR, SHARON, BA (Scripps), MA, PhD (California–Berkeley). Professor and Director of the Strode Program in Renaissance Studies, 1987, 2006.
PIONKE, ALBERT D., BA (Valparaiso), MA, PhD (Illinois). Associate Professor, 2005, 2009.
RAWLINGS, WENDY, BA (Trinity College), MFA (Colorado State), PhD (Utah). Associate Professor, 2000, 2005.
SCHNEIDER, STEPHEN, BA (Australian National), MA, PhD (Pennsylvania State). Assistant Professor, 2007.
STRECKFUS, PETER, BA (Texas), MFA (George Mason). Assistant Professor, 2007.
ULMER, WILLIAM A., BA (Gettysburg), MA (Chicago), PhD (Virginia). Professor, 1980, 1991.
WEISS, DEBORAH, BA (Washington), MA, PhD (Chicago). Assistant Professor, 2008.
WHITE, HEATHER, BA (Yale), MA, PhD (Cornell). Associate Professor and Director of Graduate Studies, 2000, 2006.
WHITE, PATTI, BA (Kentucky), MPA (Colorado–Colorado Springs), PhD (CUNY). Professor and Assistant Chairperson, 2004.

WHITING, FREDERICK, BA (Wesleyan), MA, PhD (Chicago). Associate Professor, 2001, 2007.
WITTMAN, EMILY, BA (Yale), MA, PhD (Princeton). Assistant Professor, 2007.
YOUNG, ROBERT M., BA (Hamilton), MA, PhD (Syracuse). Associate Professor, 1998, 2004.
WINSTON, MATHEW, BA (Cornell), MA, PhD (Harvard). Associate Professor, 1983, 1986.
WITTMAN, EMILY, BA (Yale), MA, PhD (Princeton). Assistant Professor, 2007.
YOUNG, ROBERT M., BA (Hamilton), MA, PhD (Syracuse). Associate Professor and Director of Graduate Studies, 1998, 2005.

Geography

APPIAH-OPOKU, SETH, BS (University of Science and Technology, Ghana), BA (Ryerson Polytechnic University, Canada), MS (University of Guelph, Canada), PhD (University of Waterloo, Canada). Assistant Professor, 2002.
BROMMER, DAVID M., BS (Mississippi State), MA, PhD (Arizona State). Assistant Professor, 2006.
BRYAN, C. HOBSON, JR., BA (Vanderbilt), MA, PhD (Louisiana State). Professor, 1970, 1983.
DAVIS, LISA, BA, MA (Southern Mississippi), M Phil (Wales–Swansea), PhD (Tennessee–Knoxville). Assistant Professor, 2005.
HAN, LUOHENG, BS, MS (Northeast Normal, PRC), PhD (Nebraska–Lincoln). Professor and Associate Dean, 1994, 2005.
HART, JUSTIN, BS (Memphis), MS (Alabama), PhD (Tennessee). Assistant Professor, 2009.
RICHTETTO, JEFFREY P., BA, MA, PhD (Ohio State). Associate Professor, 1980, 1984.
SENKBEIL, JASON, BS (South Alabama), MS (Mississippi State), PhD (Kent). Assistant Professor, 2009.
SHANKMAN, DAVID, BA, MS (Memphis State), PhD (Colorado). Professor, 1987, 2000.
STEINBERG, MICHAEL K., BA, MA (Missouri–Columbia), PhD (Louisiana State). Assistant Professor, 2007.
WEBER, JOE, BA, MA, (Arizona), PhD (Ohio State). Associate Professor, 2001, 2007.
WILSON, BOBBY M., BA (North Carolina Central), MA, PhD (Clark). Professor, 2002.

Geological Sciences

AHARON, PAUL, BS, MS (Hebrew), PhD (Australian National). Loper Professor, 2001.
ANDRUS, C. FRED T., BA, MA, PhD (Georgia). Assistant Professor, 2004.
BENSON, D. JOE, BA (Wooster), MS, PhD (Cincinnati). Professor and Interim Vice President for Research, 1978, 2000.
ÇEMEN, IBRAHIM, BS (Istanbul), MS (Ohio), PhD (Pennsylvania State). Professor and Chairperson, 2009.
DONAHOE, RONA J., BS (Missouri–Rolla), PhD (Stanford). Professor, 1984, 2005.
GOODLIFFE, ANDREW M., BSc (Plymouth), MS (Alaska–Fairbanks), PhD (Hawaii–Manoa). Assistant Professor, 2004.
MANCINI, ERNEST A., BS (Albright), MS (Southern Illinois), PhD (Texas A&M). Professor, 1976, 1984.
MASTERLARK, TIMOTHY L., BS (Wisconsin–Eau Claire), MS, PhD (Wisconsin–Madison). Assistant Professor, 2005.
PEREZ-HUERTO, ALBERTO, BS (Oviedo), PhD (Oregon). Assistant Professor, 2009.
ROBINSON, DELORES M., BS (Guilford), MS (Vanderbilt), PhD (Arizona). Assistant Professor, 2003.
SCHWARTZ, JOSHUA J., BA, MA (Brown), PhD (Wyoming). Assistant Professor, 2007.
STOWELL, HAROLD H., BS (Florida State), MS (South Carolina), PhD (Princeton). Professor, 1986, 1999.
TICK, GEOFFREY R., BS (San Jose State), PhD (Arizona). Assistant Professor, 2004.
WEISLOGEL, AMY L., BS, MS (New Mexico State), PhD (Stanford). Assistant Professor, 2007.
ZHENG, CHUNMIAO, BS (Chengdu), PhD (Wisconsin). Professor, 1993, 2002.

Gender and Race Studies

COOPER, BRITNEY, BA (Howard), MA, PhD (Emory). Assistant Professor, 2009.
MAROUAN, MAHA, BA (Ibn Zohr), MA (Kent and Canterbury), PhD (Nottingham). Assistant Professor, 2006.
MINOR, DOVEANNA FULTON, BA (Wayne State), PhD (Minnesota). Associate Professor, 2007.
PURVIS, JENNIFER, BA (Manhattanville), PhD (Purdue). Associate Professor, 2002, 2008.

History

ABRUZZO, MARGARET N., BA (Dallas), MA, PhD (Notre Dame). Assistant Professor, 2006.
BEELER, JOHN F., BA (Guilford), MA (North Carolina-Greensboro), PhD (Illinois). Professor, 1993, 2004.
BEITO, DAVID T., BA (Minnesota-Minneapolis), MA, PhD (Wisconsin). Professor, 1994, 2008.
BUNKER, STEVEN B., BA, MA (British Columbia), PhD (Texas Christian). Assistant Professor, 2006.
CLAYTON, LAWRENCE A., BA (Duke), MA, PhD (Tulane). Professor and Interim Chairperson, 1972, 1986.
FREDERICKSON, KARI, BA (Wisconsin-Madison), MA (Wisconsin-Milwaukee), PhD (Rutgers). Associate Professor and Director of the Frances S. Summersell Center for the Study of the South, 1999, 2003.
FREYER, TONY A., BA (San Diego State), MA, PhD (Indiana). University Research Professor, 1981, 1990.
GIGGIE, JOHN M., BA (Amherst College), MA, PhD (Princeton). Assistant Professor, 2007.
GROUT, HOLLY, BA (Purdue), MA (Kentucky), PhD (Wisconsin-Madison). Assistant Professor, 2009.
HOLMES-TAGCHUNGARPA, AMY, BA (Victoria), PhD (Australian Nation). Assistant Professor, 2008.
HUEBNER, ANDREW J., BA (Northwestern), MA, PhD (Brown). Assistant Professor, 2006.
JONES, HOWARD, BS, MA, PhD (Indiana). University Research Professor, 1974, 1990.
KOHL, LAWRENCE F., BA (Harvard), MA, PhD (Michigan). Associate Professor, 1987, 1989.
KOPELSON, HEATHER, AB (Harvard), MA, PhD (Iowa). Assistant Professor, 2008.
LINDQUIST-DORR, LISA, BA (College of Wooster), MA, PhD (Virginia). Associate Professor and Director of Graduate Studies in History, 2000, 2006.
MCCLURE, GEORGE W., BA (Brown), PhD (Michigan). Professor, 1986, 2005.
MENDLE, MICHAEL J., BA (Wesleyan), PhD (Washington-St. Louis). Professor and Chair, 1980, 1995.
MICHELSON, DAVID A., BA (Hillsdale), MA (Trinity Evangelical Divinity), MA, PhD (Princeton). Assistant Professor, 2008.
MIXSON, JAMES D., BA (Georgia), MA, PhD (Notre Dame). Associate Professor, 2003, 2009.
PEACOCK, MARGARET, BA (Loyola), MSIS (North Carolina-Chapel Hill), MA, PhD (Texas-Austin). Assistant Professor, 2009.
RABLE, GEORGE C., BA (Bluffton), MA, PhD (Louisiana State). Charles G. Summersell Chair in Southern History and Professor, 1998.
RICHES, DANIEL L., BA, MA, PhD (Chicago). Assistant Professor, 2007.
ROTHMAN, JOSHUA D., BA (Cornell), MA, PhD (Virginia). Associate Professor, 2000, 2006.
SELESKY, HAROLD E., BA (Wesleyan), MA, PhD (Yale). Associate Professor, 1991.
SHAW, JENNY, BA, MSc (Edinburgh), PhD (New York). Assistant Professor, 2009.
WILLIAMSON, GEORGE S., BA (Brown), MA, PhD (Yale). Associate Professor and Director, Undergraduate Studies in History, 1997, 2003.

Mathematics

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BELBAS, STAVROS, Diploma (National Technical, Athens), PhD (Brown). Associate Professor, 1984, 1994.

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DIXON, MARTYN R., BS (Manchester), MS, PhD (Warwick). Professor, 1981, 1994.
EVANS, MARTIN, BSc (London), PhD (Wales). Professor, 1989, 1999.
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GLEASON, JIM, BS (Azusa Pacific University), MA, PhD (California-Santa Barbara). Assistant Professor, 2005.
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HALPERN, DAVID C. M. J., BSc (Bristol), PhD (Arizona). Professor, 1993, 2004.
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NEGGER, JOSEPH, BS, MS, PhD (Florida State). Professor, 1967, 1979.
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SIDJE, ROGER, BSC (Yaoundé), PhD (Rennes). Assistant Professor, 2008.
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Modern Languages and Classics

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- PICONE, MICHAEL D., BA, MA (Oregon). Licence en théologie (Faculté libre de théologie réformée), Diplôme d'études approfondies, Docteur ès lettres (Université de Paris–Sorbonne). Professor of French and Linguistics, 1988, 1999.
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- RODEÑO, IGNACIO F., MA (University of Massachusetts–Amherst), PhD (University of Massachusetts–Amherst). Assistant Professor of Spanish, 2007.
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- SUMMERS, KIRK, BA (Southern Mississippi), MA (Reformed Theological Seminary), MA (Nebraska), PhD (University of Illinois). Associate Professor of Classics, 1995, 2001.
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- WORDEN, WILLIAM, AB (Dartmouth), MA (Middlebury), PhD (Brown). Assistant Professor of Spanish, 2002.
- ZUPANCIC, METKA, BS (Ljubljana), MS (Strasbourg), PhD (Zagreb). Associate Professor of French, 2000, 2005.
- MCCREERY, CARLTON, BM (Bowling Green State), MM (Michigan). Professor, 1985, 2001.
- MCGUIRE, KENNETH M., BM (SUNY-Fredonia), MM (SUNY-Binghamton), PhD (Syracuse). Associate Professor, 1998, 2005.
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- NOFFSINGER, JONATHAN, BME (Murray State), MM (Louisiana State), DMA (Michigan State). Associate Professor, 1993, 2000.
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- ROBINSON, THOMAS, BM (Miami), MM (New Mexico). Assistant Professor, 2008.
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- SWEANEY, DANIEL, BM (Cleveland Institute of Music), MM (Rice), DMA (Colorado). Assistant Professor, 2008.
- THURMAN, DEMONDRAE, BM (Alabama), MM (Wisconsin), DMA (Alabama). Assistant Professor, 2005.
- WHITAKER, JONATHAN, BM (Murray State), MM (Minnesota), DM (Indiana University). Assistant Professor, 2009.
- WOLFE, THOMAS, BM (Capital), MM (Eastman). Professor and Associate Dean, 1994, 2006.
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Music

- BIERMANN, JOANNA, BA (Barnard), MA (Columbia), PhD (Bonn). Assistant Professor, 2006.
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- CARY, STEPHEN, BM, MM, DMA (Illinois). Professor, 1988, 2005.
- CEVASCO, ANDREA, BM (Alabama), MME (Georgia), PhD (Florida State). Assistant Professor, 2006.
- COLEMAN, RANDALL, BS (Jacksonville State), MME (Georgia State). Assistant Professor, 2007.
- COWGILL, JENNIFER, BM (Oberlin), MM (Peabody), DM (Florida State). Assistant Professor, 2004.
- CUMMINS, LINDA, BM, MM (Alabama), PhD (Louisiana State). Associate Professor, 2001, 2007.
- DEWAR, ANDREW, BA (Minnesota), MA, PhD (Wesleyan). Assistant Professor, 2008.
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- FREESE, FAYTHE, BS (Valparaiso), MM, DMA (Indiana). Associate Professor, 2003.
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- HANCOCK, CARL B., BMEd, MMEd, PhD (Florida State). Assistant Professor, 2005.
- HOUGHTALING, PAUL, BM (New England Conservatory), MA (Hunter College CUNY). Assistant Professor, 2007.
- JOHNSON, MARVIN, BM, MM (Alabama), MFA, PhD (Princeton). Associate Professor and Director of Graduate Studies, 1980.
- KOZAK, CHRISTOPHER, BM, MM (Massachusetts-Amherst). Assistant Professor, 2005.
- LATIMER, W. MARVIN, BME (University of Kansas), MME (Wichita State), PhD (University of Kansas). Assistant Professor, 2007.
- MANN, JENNIFER, BMued (Baylor), MM, DMA (Texas–Austin). Assistant Professor, 2008.
- MATHIS, LARRY, BS, MS (Juilliard). Associate Professor, 1969, 1984.

New College

BROWN, JOSEPH M., BS (University of Alabama), MA (Cambridge), PhD (University of North Carolina). Assistant Professor, 2007.

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GALBRAITH, MARYSIA, BA (Sarah Lawrence), MA, PhD (UC-San Diego). Associate Professor, 1998, 2005.

HALL, JAMES C., BA, MA (Wilfrid Laurier), MTS (Waterloo Lutheran Seminary), MA, PhD (Iowa). Associate Professor and Program Director, 2002.

ROACH, CATHERINE M., BA (Ottawa–Canada), MA (Ottawa–Canada), PhD (Harvard). Associate Professor, 1998, 2005.

ROSENBERG, JEROME, BA (Miami), MS, PhD (Florida State). Professor, 1969, 1974.

SPEARS, ELLEN, BA (William and Mary), MA, PhD (Emory). Assistant Professor, 2009.

STEINBERG, MICHAEL K., BA, MA (Missouri-Columbia), PhD (Louisiana State). Assistant Professor, 2007.

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Philosophy

ALTER, TORIN A., BA (Hampshire College), MA, PhD (UCLA). Associate Professor, 1995, 2001.

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RICHARDS, NORVIN W., BA (West Virginia Wesleyan College), MA, PhD (Virginia). Professor, 1970, 1987.

RICHARDS, RICHARD A., BA (Utah), MA, PhD (Johns Hopkins). Associate Professor, 2000, 2006.
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Physics and Astronomy

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BUTLER, WILLIAM H., BA (Auburn), PhD (California–San Diego). Professor of Physics, 2001.
CLAVELLI, LOUIS J., BS (Georgetown), MS, PhD (Chicago). Professor of Physics, 1985, 1988.
HARDEE, PHILIP E., BS (Duke), PhD (Maryland). Professor of Astronomy, 1980, 1989.
HARMS, BENJAMIN C., BS (Iowa State), MS (Vermont), PhD (Florida State). Professor of Physics, 1970, 1985.
HARRELL, J.W., BS, PhD (North Carolina). Professor of Physics, 1979, 1989.
IRWIN, JIMMY, BS (Indiana), MA, PhD (Virginia). Assistant Professor, 2009.
KEEL, WILLIAM C., BA (Vanderbilt), PhD (California–Santa Cruz). Professor of Astronomy, 1987, 1996.
LeCLAIR, PATRICK, BS (Massachusetts Institute of Technology), PhD (Eindhoven). Assistant Professor of Physics, 2005.
MANKEY, GARY J., BA (Lycoming), PhD (Pennsylvania State). Professor of Physics, 1996, 2005.
MEWES, TIM, Diploma, PhD (Kaiserslautern). Assistant Professor of Physics, 2005.
MRYASOV, OLEB, BS, MS (Ural State–Russia), PhD (Russian Academy of Sciences). Associate Professor of Physics, 2009.
OKADA, NOBUCHIKA, BS (Tokyo Institute of Technology), MA, PhD (Tokyo Metropolitan). Assistant Professor of Physics, 2009.
PIEPKE, ANDREAS G., MS (Heidelberg), PhD (Heidelberg). Associate Professor of Physics, 2000, 2004.
SARKER, SANJOY, BSc, MSc (Dacca), PhD (Cornell). Professor of Physics, 1983, 1995.
SCHAD, RAINER, BS, PhD (Hannover–Germany). Associate Professor of Physics, 1998, 2003.
STANCU, ION, Diplom (Dusseldorf), MA, PhD (Rice). Associate Professor of Physics, 2005.
STERN, ALLEN B., BS (Illinois Inst. Tech.), PhD (Syracuse). Professor of Physics, 1990, 1998.
TIPPING, RICHARD H., BS, MS, PhD (Pennsylvania State). Professor of Physics, 1982, 1986.
TOWNSLEY, DEAN M., BS (Florida State), PhD (California–Santa Barbara). Assistant Professor of Astronomy, 2010.
VISSCHER, PIETER B., BA (Harvard), MA, PhD (California). Professor of Physics, 1978, 1984.
WHITE RAYMOND E., III, AB (Princeton), MA, PhD (Virginia). Professor of Astronomy and Chairperson, 1988, 1999.
WILLIAMS, DAWN R., BS (Southern California), PhD (California–Los Angeles). Assistant Professor of Physics, 2008.

Political Science

BALDWIN, J. NORMAN, BA (Georgia), MPA (Georgia State), PhD (Georgia). Associate Professor, 1988, 1991.
BORRELLI, STEPHEN A., BA (Rochester), PhD (Iowa). Associate Professor, 1989, 1995.
CASSEL, CAROL A., BA, MA (Stetson), PhD (Florida State). Professor, 1982, 2002.
CHOTINER, BARBARA A., BA (Wellesley), M Phil, PhD (Columbia). Professor, 1978, 1995.
DEROUE, KARL, JR., BS, MNS (Louisiana State), PhD (Texas A&M). Professor, 2004, 2007.
GIBLER, DOUGLAS M., BS (Belmont), PhD (Vanderbilt). Associate Professor, 2006, 2008.
KLINE, HARVEY F., BA (North Carolina), PhD (Texas). Professor, 1985.
LAHIRI, SIMANTI, BA (Barnard), MA, PhD (Wisconsin–Madison). Assistant Professor, 2008.
LANOUE, DAVID J., BA (California–San Diego), MA, PhD (SUNY–Stony Brook). Professor, 2001.

MCKNIGHT, UTZ LARS, BA (Swarthmore), PhD (Lund). Assistant Professor, 2003.
MILLER, TED H., AB (Chicago), PhD (California–San Diego). Associate Professor, 2000, 2006.
NEW, MICHAEL J., BA (Dartmouth), MS, PhD (Stanford). Assistant Professor, 2004.
POWELL, EMILIA J., Mgr (Nicholas Copernicus), MA, PhD (Florida State). Assistant Professor, 2009.
ROYED, TERRY J., BA (Bowling Green), MA, PhD (Ohio State). Associate Professor, 1990, 1998.
SMITH, JOSEPH L., BA (Wisconsin), PhD (Texas). Assistant Professor, 2003.
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Psychology

ALLEN, REBECCA S., BA (Kentucky), PhD (Washington University). Associate Professor, 1999, 2003.
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BLACK, SHEILA, BA (Butler), PhD (Washington University). Associate Professor, 1993, 2001.
BOLES, DAVID B., BA (Michigan State), PhD (Oregon). Professor, 1999, 2005.
BRODSKY, STANLEY L., BA (New Hampshire), MA, PhD (Florida). Professor, 1972, 1976.
CONNERS, FRANCES A., BA (Colgate), PhD (Case Western Reserve). Associate Professor and Director of Graduate Studies, 1991, 1998.
CROWTHER, MARTHA R., BA (California–Berkeley), MPH (Yale), PhD (Duke). Associate Professor and Director of Clinical Psychology, 2006.
GILPIN, ANSLEY TULLOS, BA (South), MA, PhD (Texas). Assistant Professor, 2009.
GUADAGNO, ROSANNA E., BS (Santa Clara University), MA, PhD (Arizona State University). Assistant Professor, 2006.
HAMILTON, JAMES C., BA (Clark), MA, PhD (Case Western Reserve). Associate Professor, 1995, 2001.
KIM, GIYEON, BA (Duksung Women's), MA (Ewha Women's), PhD (South Florida). Assistant Professor, 2009.
KLINGER, LAURA, BA (Stanford), PhD (University of Washington). Associate Professor and Director of Experimental Psychology, 1993, 2000.
KLINGER, MARK R., BS (Carroll College), PhD (University of Washington). Associate Professor, 1994, 2000.
LICHSTEIN, KENNETH L., BBA (City College of New York), PhD (University of Tennessee). Professor, 2005.
LOCHMAN, JOHN E., BA (Purdue), PhD (Connecticut). Saxon Professor of Clinical Psychology, 1998.
MERRILL, EDWARD C., BA (Dominican College of Blauvelt), MA, PhD (Vanderbilt). Associate Professor and Director of Undergraduate Studies, 1987, 1993.
PARKER, JEFFREY, BS (California), MA, PhD (University of Illinois at Urbana-Champaign). Associate Professor, 2008.
PARMELEE, PATRICIA, BA, MA (Georgia), PhD (Utah). Professor and Director of Center for Mental Health and Aging, 2008.
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SALEKIN, KAREN L., BS (Simon Fraser), PhD (North Texas). Assistant Professor, 2003.
SALEKIN, RANDALL T., BA (Simon Fraser), PhD (North Texas). Associate Professor, 2000, 2003.
SCOGIN, FORREST R., JR., BA (Tennessee), MA, PhD (Washington University). Professor, 1984, 1994.
SCOTT-ADAMS, VIRGINIA L., BA (Shippensburg), MS, PsyD (Hofstra). Assistant Professor and Director of the Psychological Clinic, 2009.
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Religious Studies

JACOBS, STEVEN L., BA (Pennsylvania State), BHL, MAHL, DHL, DD (Hebrew Union). Associate Professor, 2001, 2004.

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MCCUTCHEON, RUSSELL T., BA, MDiv, ThM (Queen's University), MA, PhD (Toronto). Professor, 2001, 2005.

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Theatre and Dance

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CRYSTAL, RAPHAEL, BA (Harvard), MM (Ball State). 2004. Associate Professor, 2003, 2009.

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Emeriti

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BALDES, RICHARD W., BA, BD, MA, PhD. Professor Emeritus of Classics, 1971, 1992.

BALDWIN, SPURGEON, BS, MA, PhD. Professor Emeritus of Romance Languages, 1990, 2000.

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DELPAR, HELEN, BA, MA, PhD. Professor Emerita of History, 1974, 2006.

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EDDINS, DWIGHT, BA, PhD. Professor Emeritus of English, 1966, 2007.

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- GLADNEY, M. ROSE, BA, MA, PhD. Associate Professor Emerita of American Studies, 1974, 2003.
- GLENN, RICHARD F., BA, PhD. Associate Professor Emeritus of Romance Languages, 1977, 2001.
- GLOBETTI, GERALD, BA, MA, PhD. Professor Emeritus of Sociology, 1972, 1994.
- GOOSEN, FREDERICK, BA, MA, PhD. Professor Emeritus of Music, 1958, 1996.
- GRAHAM, THOMAS, BS, MS, PhD. Professor Emeritus of Biological Sciences, 1972, 2007.
- GRANATA, ANGELO, MFA. Professor Emeritus of Art, 1949, 1988.
- GREEN, PATRICK E., BA, BD, PhD. Associate Professor Emeritus of Religious Studies, 1969, 2000.
- GROSHONG, RICHARD H., BS, MS, PhD. Professor Emeritus of Geology, 1983, 2003.
- HAMNER, ELIZABETH R., MM. Assistant Professor Emerita of Music, 1959, 1981.
- HAND, CLIFFORD W., AB, MS, PhD. Associate Professor Emeritus of Chemistry, 1969, 1994.
- HANSEN, ASAEL T., PhD. Professor Emeritus of Anthropology, 1949, 1974.
- HARDMAN, JOHN K., BS, MS, PhD. Professor Emeritus of Biology, 1972, 1996.
- HAYNES, ROBERT R., BS, MS, PhD. Professor Emeritus of Biology, 1976, 2005.
- HAYS, H. DON, AB, MA. Professor Emeritus of Geography, 1950, 1985.
- HERMANN, JOHN PATRICK, BA, MS, PhD. Professor Emeritus of English, 1974, 2005.
- HOCUTT, MAX O., BA, MA, PhD. Professor Emeritus of Philosophy, 1965, 2001.
- HOLDBROOKS, WALTER C., BS, MA. Assistant Professor Emeritus of Romance Languages, 1961, 1986.
- HOOD, RONALD D., BS, MS, PhD. Professor Emeritus of Biology, 1968, 2000.
- HOOKS, W. GARY, BS, MS, PhD. Professor Emeritus of Geology, 1954, 1994.
- HOPENWASSER, ALAN, AB, PhD. Professor Emeritus of Mathematics, 1976, 2007.
- HOPKINS, THOMAS S., AB, MS, PhD. Professor Emeritus of Biological Sciences, 1975, 2001.
- HUDGINS, JEWEL E., AB, MA. Assistant Professor Emerita of English, 1953, 1983.
- HUTTLINGER, FRANK D., MS. Assistant Professor Emeritus of Geography, 1960, 1984.
- IZATT, JERALD R., BS, PhD. Professor Emeritus of Physics, 1981, 1996.
- JOHNSON, CLAUDIA, BA, MA, PhD. Professor Emerita of English, 1973, 1996.
- JOHNSON, RHODA E., BS, AM, PhD. Professor Emerita of Women's Studies, 1986, 2009.
- JOHNSON, ROBERT E., BA, MA, PhD. Professor Emeritus of History, 1956, 1993.
- JONES, AYRLENE, MA. Assistant Professor Emerita of Mathematics, 1948, 1980.
- JONES, DOUGLAS E., BS, MS, PhD. Professor Emeritus of Geology, 1958, 1996.
- JONES, MERILYN, BME., MA, PhD. Professor Emerita of Music Education, 1967, 1994.
- KLEMMACK, DAVID, BA, MA, PhD. Professor Emeritus of New College, 1974, 2007.
- KRAUSE, RICHARD ALFRED, BA, MA, PhD. Professor Emeritus of Anthropology, 1974, 2005.
- LYMAN, ROBERT D., BA, MA, PhD. Professor Emeritus of Psychology, 1977, 2003.
- MCDONALD, FORREST, BA, MA, PhD. Distinguished Research Professor Emeritus of History, 1976, 2001.
- MCELROY, DAVID B., BA, MA, PhD. Associate Professor Emeritus of History, 1959, 1994.
- MCMINN, JOE B., BA, ThD, PhD, MA. Professor Emeritus of Philosophy, 1960, 1987.
- MEESE, ELIZABETH, BA, MS, PhD. Professor Emerita of English, 1975, 2005.
- MEGO, JOHN L., PhD. Professor Emeritus of Biology, 1967, 1988.
- MELVIN, KENNETH B., BA, MA, PhD. Professor Emeritus of Psychology, 1963, 1998.
- MILLER, HENRY C., JR., AB, MA, MS, PhD. Professor Emeritus of Mathematics, 1956, 1990.
- MILLER, HOWARD L., AB, MA, MPH, PhD. Professor Emeritus of Psychology, 1967, 1996.
- MITCHELL, JOAN PARSONS, BS, MS, PhD. Instructor Emerita of Biology, 1968, 1994.
- MIYAGAWA, ICHIRO, BS, DSc. University Research Professor Emeritus of Physics, 1965, 1992.
- MONK, DENNIS C., BA, MA, PhD. Professor Emeritus of Music, 1982, 2001.
- NOBLE, DONALD, BA, MA, PhD. Professor Emeritus of English, 1969, 2001.
- O'KELLEY, JOSEPH C., BS, MS, PhD. Professor Emeritus of Biology, 1950, 1986.
- ONEAL, JOHN, AM, BS, PhD. Professor Emeritus of Political Sciences, 1988, 2006.
- PARKER, ALICE, BA, MA, PhD. Associate Professor Emerita of French, 1976, 2002.
- PARKER, EMMETT, BA, MA, PhD. Professor Emeritus of French, 1964, 1990.
- PASSERINI, EDWARD M., BA, MA, PhD. Professor Emeritus of New College, 1970, 2006.
- PECK, DENNIS, BS, MS, PhD. Professor Emeritus of Sociology, 1978, 2008.
- PICKETT, TERRY HILL, BA, MA, PhD. Professor Emeritus of German, 1969, 1997.
- PILEGGE, JOSEPH C., BS, MA, PhD. Professor Emeritus of Political Science, 1966, 1992.
- PONDER, BILL W., BS, MS, PhD. Associate Professor Emeritus of Chemistry, 1964, 1991.
- PORTER, MARY GRAY, BA, MA, PhD. Professor Emerita of German, 1955, 1992.
- RABBIT, THOMAS F., AB, MA, MFA. Professor Emeritus of English, 1972, 1996.
- RAGSDALE, HUGH A., BA, MA, PhD. Professor Emeritus of History, 1964, 1996.
- RAND, RICHARD, A. BA, PhD. Professor Emeritus of English, 1985, 2007.
- RAYMOND, JAMES C., BA, MA, PhD. Professor Emeritus of English, 1973, 2001.
- ROGERS, DAVID T., BS, MS, PhD. Professor Emeritus of Biology, 1965, 1994.
- ROGERS, RONALD W., BA, MA, PhD. Professor Emeritus of Psychology, 1976, 2006.
- ROSEN, HARVEY, BA, MS, PhD. Professor Emeritus of Mathematics, 1969, 2007.
- ROSS, JOHN W., AB, MFA. Professor Emeritus of Theatre, 1965, 1996.
- RUIZ-FORNELLS, ENRIQUE, MA, PhD. Professor Emeritus of Romance Languages and Classics, 1963, 1991.
- RUNCIE, DENNIS, BA, MA, PhD. Associate Professor Emeritus of Psychology, 1971, 1994.
- SAMPLE, STEVE, BM, MA. Professor Emeritus of Music, 1958, 1993.
- SAYERS, E. ROGER, BS, MS, PhD. Professor Emeritus of Biology, 1963, 1996.
- SCHROEDER, WILLIAM W., BS, PhD. Professor Emeritus of Biological Sciences, 1973, 2006.
- SCOTT, MECKINLEY, BS, MS, PhD. Professor Emeritus of Mathematics, 1965, 1991.
- SEARCY, MARGARET ZEHMER, BA, MA. Instructor Emerita of Anthropology, 1964, 1988.
- SELLA, ALVIN, Certificates. Professor Emeritus of Studio Art, 1961, 1996.
- SENSING, WELTON J., MA, PhD. Assistant Professor Emeritus of Romance Languages, 1947, 1973.
- SHEELEY, EUGENE C., BA, MA, PhD. Professor Emeritus of Communicative Disorders, 1967, 1994.
- SIGLER, ROBERT T., BA, MA, PhD. Professor Emeritus of Criminal Justice, 1974, 2007.
- SMITH, E. MARCEL, AB, MA, PhD. Associate Professor Emeritus of English, 1965, 1994.
- SNOW, DONALD M., BA, MA, PhD. Professor Emeritus of Political Sciences, 1969, 2006.
- STAUB, STEPHEN A., BA, MPA, PhD. Assistant Professor Emeritus of Political Science, 1971, 1996.

STEWART, WILLIAM H., BA, MA, PhD. Professor Emeritus of Political Science, 1969, 2000.

SUAREZ, BERNARDO, LLD, MA PhD. Associate Professor Emeritus of Spanish and Portuguese, 1968, 1985.

SUBERKROPP, KELLER, F., BS, MS, PhD. Professor Emeritus of Biological Sciences, 1986, 2006.

SULENTIC, JACK W., BS, PhD. Professor Emeritus of Astronomy, 1980, 2009.

TAAFFE, JAMES G., BA, MA, PhD. Professor Emeritus of English, 1990, 2005.

TERRY, ED, BS, MA, PhD. Professor Emeritus of Spanish, 1964, 1999.

THOMAS, JOAB L., AB, MA, PhD. Professor Emeritus of Biological Sciences, 1962, 1997.

ULTEE, MAARTEN, BA, MA, PhD. Professor Emeritus of History, 1980, 2009.

ULTSCH, GORDON R., BA, PhD. Professor Emeritus of Biological Sciences, 1973, 2006.

VAN ARTSDALEN, ERVIN R., BS, AM, PhD. Professor Emeritus of Chemistry, 1968, 1984.

VOGEL, JOSEPH OTTO, BA, D Phil. Professor Emeritus of Anthropology, 1977, 1996.

VOSS, RALPH, BA, MA, PhD. Professor Emeritus of English, 1978, 2009.

WALKER, EUGENIA RUTH, BA, MS. Assistant Professor Emerita of Communicative Disorders, 1967, 1979.

WALKER, WILLIAM W., BS, MA, PhD. Professor Emeritus of Physics, 1961, 1994.

WARD, SUSIE LEE, AB, MA. Assistant Professor Emerita of Mathematics, 1946, 1979.

WATKINS, JOHN C., JR., BS, JD, MS, LLM. Professor Emeritus of Criminal Justice, 1971, 2003.

WATSON, CHARLES S., BA, MA, PhD. Professor Emeritus of English, 1966, 1997.

WEINBERGER, LEON J., BA, MHL, MA, PhD. Professor Emeritus of Religious Studies, 1964, 1997.

WEISBERG, PAUL, BA, AM, PhD. Professor Emeritus of Psychology, 1968, 1996.

WHITE, EDWARD, BM, MM. Professor Emeritus of Music, 1975, 2001.

WIGGINS, SARAH WOOLFOLK, BA, MA, PhD. Professor Emerita of History, 1961, 1995.

WILLETS, SANDRA M., BME., MM, DMA. Professor Emerita of Music, 1989, 2003.

WILLIAMS, VERGIL LEWIS, BS, PhD. Professor Emeritus of Criminal Justice, 1971, 2000.

WILLIAMSON, EUGENE L., BA, MA, PhD. Professor Emeritus of English, 1959, 1990.

WILSON, WALTER L., JR., BA, MA, PhD. Associate Professor Emeritus of Mathematics, 1960, 1989.

WINOKUR, MARSHALL, BA, MA, PhD. Associate Professor Emeritus of Russian, 1969, 1994.

WINSTON, MATHEW, BA, MA, PhD. Associate Professor Emeritus of English, 1983, 2009.

WINTERS, ALVIN L., BS, MS, PhD. Professor Emeritus of Biological Sciences, 1980, 2006.

WOLFE, GEORGE H., BA, MA, PhD. Professor Emeritus of English, 1973, 2002.

WRIGHT, NANCY, BM, MM. Associate Professor Emerita of Music, 1967, 1987.

WU, KATHLEEN JOHNSON, BA, MA, PhD. Professor Emerita of Philosophy, 1972, 1997.

WYATT, ELWANDA P., BS, MS. Instructor Emerita of Biology, 1969, 1996.

YARBROUGH, JAMES D., BA, MA, PhD. Professor Emeritus of Biological Sciences, 1989, 2001.

CULVERHOUSE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

HISTORY AND OBJECTIVES

The Culverhouse College of Commerce and Business Administration (C&BA) is the oldest school of business in the state and one of the premier programs in the South. The College has earned national recognition for excellence in business education. The College is accredited by the Association to Advance Collegiate Schools of Business—International (AACSB). Technologically sophisticated classrooms, laboratories, and library facilities; continuous improvements in academic programs; and an outstanding faculty provide a sound basis for maintaining this tradition of excellence.

Lee Bidgood, the first dean of the College, launched the School of Commerce in 1919. Dean Bidgood oversaw the development of the College, including construction of the Commerce Building, now known as Bidgood Hall, which was completed in 1929. Bidgood Hall has grown through several expansions and is now a central part of a technologically integrated three-building business complex in the central University campus.

The College offers degree programs at the bachelor's, master's, and doctoral levels. The mission of the Culverhouse College of Commerce and Business Administration is to excel in the creation and application of general and discipline-based business knowledge. We are committed to providing the educational and enrichment experiences expected of a full-time residential major state university.

DEGREES AND PROGRAMS OFFERED

The Culverhouse College of Commerce and Business Administration offers one undergraduate degree, the bachelor of science in commerce and business administration (BSCBA). The Manderson Graduate School of Business offers the following degrees: master of business administration (MBA); master of arts (MA); master of science (MS); master of accountancy (MAcc); master of tax accounting (MTA); and doctor of philosophy (PhD). Undergraduate students in commerce and business administration may major in accounting, economics, finance, general business, management, management information systems, marketing, or operations management. Students in business may complete more than one major, including a non-business major, a non-business minor, and a specialization in a particular business field.

ADMISSION REQUIREMENTS

Admission as a Freshman Student

A student who meets the criteria for admission to The University of Alabama as a freshman student is eligible for admission to the College as a pre-business student. Specific information about these criteria is available from The University of Alabama, Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; (205) 348-5666 or toll-free 1-800-933-BAMA in the continental United States.

Admission as a Transfer Student

A student seeking to transfer to the Culverhouse College of Commerce and Business Administration from another college or university must have an official transcript sent directly to the UA Office of Undergraduate Admissions (see address in preceding paragraph) from each college or university previously attended. A grade point average of "C" (2.0 on a 4.0 scale) or better for all college-level work attempted is required for admission to the University and to the College. For admission directly to the College's upper division, a grade point average of 2.5 is required for all majors except the general business major, which requires a grade point average of 2.0. Transferred credit hours will be applied as appropriate to a student's degree program. The authority to apply or to deny transferred credit rests with the College.

Transfers from two-year colleges. A maximum of 50 percent of the total number of hours required for the bachelor's degree in business may be taken at two-year colleges and applied toward graduation requirements. Undergraduate business programs in this catalog require 120 semester

hours; therefore, the maximum number of two-year-college hours applicable to a degree in the Culverhouse College of Commerce is 60 hours.

Only courses that are equivalent to courses numbered 100 or 200 at the University (freshman- and sophomore-level courses) may be transferred to C&BA from junior colleges. Junior college transfer students may transfer courses equivalent to (a) the College's general education requirements; (b) restricted and unrestricted electives; and (c) the University's sophomore-level courses satisfying business administration functional field requirements (i.e., the introductory courses in accounting [AC 210], statistics [ST 260], and the legal environment of business [LGS 200]). All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama.

Transfers from senior colleges and universities. Courses transferred from institutions accredited by the AACSB will be accepted within the broad limits of the graduation requirements of the College and the University. Students seeking to transfer credit from institutions not accredited by the AACSB or by a regional or national accrediting agency may be granted transfer credit on a provisional basis. Provisional credit may be validated by completing 30 semester hours in residence with a "C" average or better. Consult the C&BA registrar or the UA Office of Undergraduate Admissions for more information.

A maximum of 6 semester hours of professional courses taken at another institution may be applied toward a student's major program requirements. Approval is required from the head of the department in which the student expects to earn a degree. All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama. All coursework required in the major program of the Culverhouse School of Accountancy must be done in residence.

Transfers from other divisions of The University of Alabama. Students who wish to transfer from one division of the University to another should consult staff members in the student services office of the division into which they intend to transfer. Students are encouraged to contact the new division well ahead of the time they intend to transfer. Students will need information about the applicability of previous and present coursework to the new division's requirements, and on the procedures involved in transferring.

Students with bachelor's degrees. Students who have completed an undergraduate degree and wish to complete a second degree in business must meet the requirements described for business majors in this catalog. Students should consult with an academic advisor in the A.H. Bean Undergraduate Student Services Center in 10 Bidgood Hall.

Admission to the College's Upper Division

Business students are required to apply for admission to the upper division of the College and to a major program. Application for admission to the upper division and to a major program must be made upon completion of a set of specific requirements outlined below.

Entering freshman students will be designated LAC, LEC, LFI, LMGT, LMKT, LMIS, LOM, or LGB depending on their intended major. All lower division students are administratively housed in the College, and they receive academic advising in the A.H. Bean Undergraduate Student Services Center in 10 Bidgood Hall.

Requirements. Students are eligible for admission to the upper division and to a major program—and are therefore entitled to enroll in 300- and 400- level business courses—only if they meet the following standards:

1. Students must have completed a minimum of 60 hours of credit. Students may apply for admission to the upper division either in the semester during which junior standing will be achieved or after junior standing has been achieved. Credit earned by such means as Advanced Placement (AP), CLEP, or departmental placement is counted toward the 60-hour requirement. Students who have completed coursework at other institutions and wish to have that work applied to the 60-hour requirement must see to it that transcripts from the other institutions are forwarded as soon as possible to The University of Alabama. Hours completed but not officially transferred to the student's University of Alabama record cannot

be included in the calculation of the 60-hour requirement. Courses (and hours) in which a student has earned a grade of "Incomplete" ("I") cannot be included in the calculation of the 60-hour requirement until the grade has officially been changed to a passing grade.

2. Students must have completed with grades of "C-" or higher the following required courses:

EC 110 and EC 111
EN 101 and EN 102
MATH 112 and MATH 121 (or MATH 115 and MATH 125)
ST 260
AC 210
LGS 200

Students have a maximum of three (3) attempts at completing each of these courses with a grade of "C-" or higher. A grade of "W" counts as an attempt.

The remaining hours applied toward the 60-hour requirement should consist of courses required in the University of Alabama Core Curriculum and must include courses in the following categories:

At least 4 hours of natural science
At least 3 hours of fine arts, literature or humanities
At least 3 hours of history or social and behavioral sciences (in addition to EC 110 and EC 111)

3. Except for the general business major, which requires a minimum grade point average of 2.0, students admitted to the upper division of the College and approved to begin C&BA coursework at the 300 and 400 level must have grade point averages of 2.5 or higher for all college-level coursework attempted, and they must have grade point averages of 2.5 or higher for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the assistant dean of undergraduate programs for admission to the upper division if the student's grade point average for the last 30 hours attempted is 2.5 or higher. These admission standards have been established by the C&BA faculty and are subject to change.
4. Students majoring in management information systems are required to complete CS 120, CS 220, and MIS 295.
5. Students concentrating in quantitative finance are required to complete MATH 125 and MATH 126.

Applying for Admission to the Upper Division

Students seeking admission to the College's upper division should apply in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall. Business students will not be permitted to enroll in upper-division courses unless they have applied and been admitted to the upper division. Students who have completed all requirements for admission to the upper division but have failed to complete the required application for admission will be barred from enrolling in upper-level courses until the application is completed. The application deadlines are specified below:

1. A student who wishes to apply for admission to the upper division and to a major program, and who wishes to begin taking junior-level courses and courses in the major during the Interim term, summer session, or fall semester, should apply by March 1 preceding those terms.
2. Qualified new transfer students, and returning students who will qualify as a result of attending summer school, should apply for fall-semester admission no later than July 15.
3. A student who expects to begin upper-level work in the spring semester should apply no later than October 1.

Students who are applying for admission to the upper division at the midpoint of a semester will be applying based on coursework they expect to complete during that semester. A decision concerning admission will be conditional until the successful completion of coursework produces the required cumulative hours and grade point average. Admission will be revoked should a student fail to achieve the required average or complete the required courses and hours in which he or she is enrolled during the semester in which application is made.

Students who attempt to enroll in 300- or 400-level courses in violation of any of these policies will be administratively disenrolled from courses for which they are not eligible.

Non-Business Majors in Upper-Level C&BA Courses

Students from other divisions of the University may enroll in 300- and 400-level C&BA courses subject to the following conditions:

1. Students must have achieved junior standing, defined as a minimum of 60 hours of credit. Economics majors and economics minors in the College of Arts and Sciences may enroll in 300-level economics (EC) courses prior to achieving junior standing.
2. Students must meet specific prerequisites established for the courses in which they wish to enroll and must have completed EC 110.
3. The total number of hours in C&BA coursework for which a non-business major may enroll may not exceed 30 semester hours (excluding EC 110, EC 111, and ST 260) without approval from the associate dean for undergraduate programs.

Students who attempt to enroll in 300- or 400-level C&BA courses in violation of any of these policies will be administratively disenrolled from courses for which they are not eligible.

GENERAL DEGREE REQUIREMENTS AND ACADEMIC POLICIES

The requirements specified in this catalog are intended for all students who begin their college careers during or after the fall of 2010. Students who have begun their careers prior to fall 2010 may choose to complete the requirements outlined in this catalog, but if they do so they must complete all of the requirements listed here. Students may not choose some requirements from this catalog and some from previous catalogs.

Student Responsibilities

1. Each student is responsible for selecting courses that will allow him or her to make reasonable progress toward a degree in the College. An appointment with an advisor in the A.H. Bean Undergraduate Student Services Center to develop a long-range academic plan is strongly encouraged.
2. Each student is responsible for University and College policies appearing in official documents, including those on the University and College Web sites, that govern academic programs, curricula, courses, and completion of degrees.
3. Each student is expected to pursue successful completion of all courses for which he or she enrolls.
4. Each student is expected to maintain a current and accurate mailing address, e-mail address, and phone number with the A.H. Bean Undergraduate Student Services Center and respond promptly to all communications from the University and the College.
5. Each student is expected to be familiar with the current academic calendar.

Maximum Class Hour Load Per Semester

Entering freshman students may enroll for a maximum of 16 semester hours during the first semester in residence. Continuing students may register for a maximum of 16 semester hours during the fall and spring semesters and a maximum of 14 semester hours during the summer session, without special permission.

Students must register for a minimum of 12 semester hours in order to be classified as full-time students. Students who wish to take less than a full-time load must secure permission from the Associate Dean of Undergraduate Programs.

Auditing Courses

Students may register for courses as auditors with the approval of the departments offering the courses. The deadline for registering as a course auditor coincides with the deadline for adding courses at the beginning of each semester. Consult the College Registrar for more information.

The requirements that auditors are expected to meet in an audited course are left to the discretion of the instructor. Audited courses do not count toward degree requirements.

Online Courses

C&BA students may enroll in online courses through the College of Continuing Studies. An online course with the same course number as a regularly scheduled on-campus course fulfills the same degree requirements as an on-campus course. Further information about online courses is available through the College of Continuing Studies.

Pass/Fail Option

The University and the Culverhouse College of Commerce and Business Administration offer students the opportunity to pursue courses on a pass/fail basis as a means of encouraging students to broaden their interests and learning experiences beyond their business specializations. To register for a course on a pass/fail basis, a student must obtain approval in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall. The deadline for registering for a course on a pass/fail basis coincides with the deadline for adding courses at the beginning of each semester.

The College registrar is responsible for determining that each student requesting the pass/fail option meets the following criteria:

1. The student must have attained sophomore standing (a minimum of 30 hours earned).*
2. If the student is a transfer student, he or she must have earned 15 hours or more in residence, maintaining a grade point average of 2.0 or higher in residence.*
3. The student must have an overall grade point average of 2.0 or higher.
4. The course the student wishes to take on a pass/fail basis must be a non-commerce elective. Business courses (required or elective) may not be taken on a pass/fail basis except in the case of courses that are offered only as pass/fail courses.
5. Courses that will be used to satisfy University of Alabama Core Curriculum requirements may not be taken on a pass/fail basis.
6. The student may take a maximum of four courses, or 12 hours, of coursework on a pass/fail basis while earning an undergraduate degree.
7. The student may take no more than one course per semester on a pass/fail basis.

Business students will not be allowed to register for courses on a pass/fail basis after the deadline for adding courses, and once the option is selected it may not be rescinded.

*Several specialized courses offered only on a pass/fail basis may be taken in the freshman year or the first semester in residence (for transfer students). Consult the C&BA Student Services Office for further information.

Policy on Repeating Courses

1. A course may be repeated, but the record of both the original and the repeat enrollment will appear on the student's transcript. Both attempts will be counted as hours attempted, but only the second attempt will count as hours earned for the degree. If the course is passed on the first attempt, but failed on the second attempt, the student will not earn credit for the course toward a degree.
2. The MIS Program and the Culverhouse School of Accountancy have their own rules for repeating courses required in their majors. Consult the MIS Program and the Culverhouse School of Accountancy for more information.

Policy on Mathematics Courses

The analysis of many business problems calls for mathematical reasoning. Students should take the highest-level mathematics sequence for which they are eligible. The MATH 112 and MATH 121 sequence provides the minimum skills for pursuing an undergraduate business degree but is not a substitute for MATH 125. Any sequence that includes MATH 125 is preferable to the MATH 112 and MATH 121 sequence. Those students who

are interested in graduate study or in working in technical positions should choose a course of study that would lead to at least partial completion of the standard calculus sequence, MATH 125, MATH 126, and MATH 227.

Below are specific rules that govern mathematics requirements for commerce and business administration students:

1. Once a student has earned credit for MATH 112 and/or MATH 121 (or MATH 125), the student may not earn credit, including CLEP, for lower-numbered mathematics courses.
2. C&BA will not grant degree credit for any mathematics course numbered lower than MATH 100 at The University of Alabama.
3. C&BA will not grant degree credit for any mathematics course offered for transfer credit from a junior college which is titled—or has the substance of—"business mathematics" or "mathematics for finance."

Selecting a Major

Eligible students should complete major declaration forms in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall. Students who intend to major in accounting or management information systems must apply to the respective departments.

A student who is admitted to the upper division but is not yet ready to declare a major must change from lower-division status (see "Admission to the Upper Division") to General Business status until he or she is ready to select a major program. Students who need information to enable them to select majors appropriate to their academic and career interests should consult with faculty advisors in the respective departments or with the staff of the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall.

Minors in Business for Non-Business Majors

Students enrolled in divisions of the University other than the Culverhouse College of Commerce and Business Administration may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student's dean is required.

Except for the general business minor, which requires a minimum grade point average of 2.0, non-business majors admitted to a business minor must have grade point averages of 2.5 or higher for all college-level coursework attempted and for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the associate dean for undergraduate programs of the Culverhouse College of Commerce and Business Administration for admission to the business minor if the student's grade point average for the last 30 hours attempted is 2.5 or higher. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student's grade point average subsequently falls below 2.5 provided all other enrollment requirements are met.

Non-business students must complete the course-specific prerequisites for each minor program course and must have earned credit for a minimum of 60 semester hours at the time they enroll in the 300- or 400-level courses. Non-business majors may earn degree credit for no more than 30 semester hours of C&BA courses (excluding EC 110, EC 111, and ST 260) without approval of the associate dean for undergraduate programs. Failure to comply with these policies will result in administrative disenrollment from C&BA courses.

Entrepreneurship

Courses	Hours
EC 110.....	3
AC 210.....	4
MGT 300.....	3
MGT 386.....	3
MGT 482.....	3
One of the following:	
MKT 410, MKT 321, or an additional course approved by the entrepreneurship coordinator.....	3

Total: 19

Management	
Courses	Hours
AC 210.....	4
MGT 300.....	3
MGT 301.....	3
MGT 320.....	3
MGT 386.....	3
Two of the following:	
MGT 341, MGT/IBA 351, MGT 420, MGT 421.....	6
	Total: 22

World Business	
Courses	Hours
AC 210.....	4
IBA 350.....	3
PSC 434.....	3
MKT 300.....	3
MKT 455.....	3
Two of the following:	
IBA 351, IBA 459, MKT/IBA 460, EC 430, EC 431, EC 440, EC 442, EC 453.....	6
	Total: 22

General Business	
Courses	Hours
AC 210.....	4
EC 110.....	3
LGS 200.....	3
ST 260.....	3
Two of the following:	
FI 302, MGT 300, MKT 300, OM 300, MIS 200.....	6
	Total: 19

Graduation Requirements

In order to qualify for a bachelor's degree in the Culverhouse College of Commerce and Business Administration, a student must earn a minimum of 120 semester hours of credit as specified in this catalog. A minimum of 30 hours must be earned in residence at The University of Alabama and in the College.

Total hours of study. A minimum of 120 semester hours of credit as specified in this catalog is required for the degree of bachelor of science in commerce and business administration.

Academic standards. The following minimum standards of academic achievement must be met by each student who expects to earn a bachelor's degree from the Culverhouse College of Commerce and Business Administration. (These standards are subject to change.)

- Each student must earn a grade point average of at least 2.0 ("C") for all coursework attempted at The University of Alabama.
- Each student must earn a grade point average of at least 2.0 ("C") for all college-level coursework attempted.
- Each student must earn a grade point average of at least 2.0 ("C") for all coursework attempted in the major program.
- Each student must earn a grade of "C-" or better in required general education courses.
- Each student must earn a grade of "C-" or better in each of the business administration functional field courses.

It is the student's responsibility to make sure that each of the above requirements has been met. Students should utilize DegreeWorks, the online academic planning system, to ensure that they are making adequate progress toward the degree. The C&BA registrar is available to students who wish to verify their records.

Application for degree. Each candidate for graduation from C&BA must submit an application for degree via myBama, the online student portal. Students should submit their degree applications online once they have earned 90 hours. In all cases, an application for degree must be filed online via myBama no later than the time at which the degree candidate registers for his or her final semester in residence. Students who apply for their degrees after registration for the final semester will not receive their diplomas until the following term.

A student who wishes to complete degree requirements at any institution other than The University of Alabama, or by any means other than residency in the College, may do so only on the advice of the C&BA registrar and with the approval of the department head of the major field in which the student expects to earn a degree. Such students must meet all the above requirements.

All transient work should be transferred to the University before a student's final semester on campus. Students wishing to take courses on another campus during their final semester must seek approval before registering for transient courses.

DEPARTMENT AND PROGRAM REQUIREMENTS

A total of 120 hours, distributed as follows, are required for the bachelor of science in business administration degree.

General Education Courses

Required courses

Courses	Hours
EC 110 and EC 111	6
EN 101 and EN 102	6
MATH 112 and MATH 121, or MATH 115 and MATH 125 ¹	6
ST 260.....	3

Total: 21

Restricted non-commerce electives 26–34

Natural science. Eight semester hours of science courses designated N, including at least 2 semester hours of laboratory experience.

Humanities and fine arts. Twelve semester hours consisting of at least 3 hours of literature* and at least 3 hours in the arts. The remaining 6 hours are to be chosen from the humanities and/or fine arts.

History and social and behavioral sciences. Twelve semester hours with at least 3 hours in history* and at least 6 hours chosen from among other disciplines in the social and behavioral sciences. EC 110 and EC 111 (required above) satisfy 6 hours of this requirement.

*Each student must complete a 6-semester-hour sequence in either literature or history.

Foreign language or computer language. Either two semesters of one foreign language designated FL (6–8 hours) or two semesters of C-designated computer language courses (6 hours). This requirement may be satisfied by completing ST 260 and one additional C-designated course.²

Total: 47–55 hours

Business Administration Functional Field Courses

Lower Division

AC 210 Introduction to Accounting.....	4
LGS 200 Legal Environment of Business.....	3

Total: 7

Upper Division

Applicants for the upper division in the Culverhouse College of Commerce and Business Administration must complete at least 60 semester hours prior to admission to the upper division. The 60 hours should be chosen from the requirements listed above and must include degree credit for EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; EN 101 and EN 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours of natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to earn degree credit for these specific courses and to earn at least 60 semester hours in all will make students ineligible for admission to the upper division and for enrollment in 300- and 400-level C&BA courses.

FI 302 Business Finance.....	3	SOPHOMORE YEAR	
GBA 490 Strategic Management.....	3	First Semester	Hours
MGT 300 Organizational Theory and Behavior.....	3	Courses	
GBA 300 Managerial Communication Strategies.....	3	EC 111.....	3
MKT 300 Marketing.....	3	MATH 121 or MATH 125.....	3
OM 300 Introduction to Operations Management.....	3	History or social and behavioral sciences elective*.....	3
	18	Literature elective*.....	3
		Natural science elective.....	4
			16
		Total: 25 hours	

Major Program Courses 18
See the departmental listings below for the requirements in each major.

Electives 22-30

GBA 145, Orientation to Commerce and Business Administration, is highly recommended for students who enter the College as freshmen.

Some departments may specify some of the elective courses. Students should consult their major department for information.

All business students are required to take at least one course that has an international focus. The course can be selected from courses in international business or from approved courses with international content in other colleges. Students should consult with their advisor for a list of approved courses.

Total for BS degree: 120 hours

¹Students with the required high-school units in mathematics are classified by means of standardized placement tests; only those with satisfactory placement test scores are admitted to MATH 112. Students who do not make satisfactory scores should complete MATH 100 before taking MATH 112. MATH 100 may be counted toward the degree as a non-commerce elective. In certain cases, students with very weak backgrounds in mathematics may be required to complete MATH 005, which is a noncredit course. Students who concentrate in quantitative finance are required to complete MATH 112, MATH 125, and MATH 126. Other majors require students to complete MATH 112 and MATH 121, or MATH 115 and MATH 125. MATH 125 and MATH 126 are 4-hour courses.

²Foreign language/computer language requirement. Students must complete two semesters (6-8 hours) of a foreign language designated **FL** or earn equivalent credit by examination; or they must earn 6 semester hours in C-designated courses. Foreign language courses must be selected from non-commerce electives taken to meet the general education requirements. Students enrolling in C courses are expected to have basic computer application skills. Students lacking these skills, as determined by university policy, will be required to take a course or courses designed to develop the required skills. Credit for the course will count as part of the students' electives.

Suggested Courses for Freshman and Sophomore Years

The following suggested course sequences for freshman and sophomore (lower division) students are intended to assist students in planning their schedules to include the required pre-business coursework. Academic advisors for C&BA students are available in the A.H. Bean Undergraduate Student Services Center, 10 Bidgood Hall.

Suggested Course Sequence, MATH 100

FRESHMAN YEAR

First Semester	Hours		
Courses			
Fine arts elective.....	3	Second Semester	Hours
EN 101.....	3	Courses	
GBA145.....	1	AC 210.....	4
MATH 100.....	3	LGS 200.....	3
History elective*.....	3	Free electives.....	6
Humanities or fine arts elective.....	3	Literature or humanities/fine arts elective*.....	3
	16		16

Second Semester	Hours		
Courses			
EC 110.....	3	First Semester	Hours
EN 102.....	3	Courses	
MATH 112.....	3	EC 111.....	3
Natural science elective.....	4	MATH 121 or MATH 125.....	3
Free elective (MIS 200 for general business majors).....	3	History or social and behavioral sciences elective*.....	3
		Literature elective*.....	3
		Natural science elective.....	4
			16

*Each student must complete a 6-semester-hour sequence in either literature or history.

MAJORS AND SPECIALIZATIONS IN BUSINESS

MAJORS

The following majors are offered in business. Each major requires 18 hours of courses.

Accounting
Economics
Finance
General Business
Management
Management Information Systems
Marketing
Operations Management

In addition to the requirements for the major, students are encouraged to complete a second major, specialization in business, and/or a major or minor outside of business. Students should consult with their advisors and major departments about approved courses of study. Some majors require specializations.

SPECIALIZATIONS

Specializations are intended to extend a student's knowledge of a specific discipline beyond that provided by the major or to provide a general background in a discipline other than the major to broaden a student's understanding of business. The number of hours required for a specialization varies and depends on courses taken in the student's major. Students should consult their advisor or major department concerning specializations available for their major.

Accounting
Actuarial Sciences
Banking and Financial Services (finance majors only)
Business Information Technology
Business Intelligence
Consumer Marketing
Economics
e-Decision Support
Entrepreneurship
Finance
Financial Management (finance majors only)
Global Business
Health Care Management
Human Resource Strategy
Insurance
International Economics (economics majors only)
International Finance (finance majors only)
Investment Management (finance majors only)
Macroeconomic and Monetary Policy (economics majors only)
Management Communications
Personal Wealth Management
Production Management (operations management majors only)
Professional Accounting (accounting majors only)
Professional Sales
Public Policy and Law (economics majors only)
Quantitative Economics (economics majors only)
Quantitative Finance (finance majors only)
Real Estate
Supply Chain Management

Culverhouse School of Accountancy (AC)

Professor Mary S. Stone, Director

Office: 314 Alston Hall

Students should consult the Culverhouse School of Accountancy Web site at cba.ua.edu/accounting for additional information about admission and program requirements.

The School of Accountancy was established in July 1978 as an academic unit of the College of Commerce and Business Administration. The School was named in honor of Hugh F. Culverhouse Sr. in February 1989. Culverhouse was an alumnus of The University of Alabama, a noted lawyer and businessman, and a major supporter of the accountancy

program. The Culverhouse School of Accountancy is a charter member of the Federation of Schools of Accountancy. The School holds accounting accreditation at both the undergraduate and graduate levels. In addition to the bachelor of science degree, the Culverhouse School of Accountancy offers two professional master's degrees, the master of accountancy (MAcc) and the master of tax accounting (MTA); and a doctor of philosophy (PhD) degree with a concentration in accounting.

Admission and retention policies. A prospective Culverhouse School of Accountancy student must submit an application that demonstrates that all criteria for admission have been met. Students are eligible for admission if they meet the criteria for admission to the upper division of the College of Commerce and Business Administration. A student whose grade point average falls below these standards may petition the director of the Culverhouse School of Accountancy for admission to the upper division and Culverhouse School of Accountancy if the student's grade point average for the last 30 hours attempted is 2.5 or higher.

Students who have not been admitted to the School may enroll in upper-division accounting courses offered for non-majors. A student who has not been admitted may also enroll in 300-level accounting courses offered for accounting majors, provided that he or she has fulfilled the prerequisites for those courses and either meets the criteria for admission to the Culverhouse School of Accountancy or must take those courses as part of the major or minor. Only students who have been admitted to the Culverhouse School of Accountancy may enroll in 400-level accounting courses without special permission of the director.

Accounting majors must complete all 300-level accounting courses with grades of "C-" or better. A student who enrolls in any of these courses twice and fails to make a grade of "C-" or better will not be permitted to take additional accounting courses without special permission. Enrollment is defined as registration for a course resulting in the recording of hours attempted on the student's record. Priority for enrollment in upper-division accounting courses is given to students who are not repeating the courses.

Students wishing to sit for the CPA examination in Alabama must complete the Professional Accounting specialization, and they must earn 150 semester hours of college courses. To meet this requirement, students in the Culverhouse School of Accountancy must be admitted to either the master of accountancy or master of tax accounting programs. Students should apply for admission to one of these graduate programs during the first semester of their senior year. The Professional Accounting specialization is required for students entering the masters' programs in accounting.

Major Program Requirements

Courses	Hours
AC 310 Financial Reporting and Analysis of Business Activities I.....	3
AC 311 Financial Reporting and Analysis of Business Activities II.....	3
AC 361 Cost Analysis for Planning and Control.....	3
AC 371 Introduction to Taxation.....	3
AC 389 Accounting Information Systems Development, Operations, and Control.....	3
AC 432 Introduction to Corporate Governance, Risk Assessment, and Assurance Services	3
<hr/>	
	Total: 18 hours

Department of Economics, Finance, and Legal Studies (EC, FI, LGS)

Professor Billy P. Helms, Department Head

Office: 200 Alston Hall

ECONOMICS

The University's economics programs offer an extensive variety of courses to develop the student's analytical abilities and prepare graduates for rewarding careers in business, industry, and government. Economics also provides a sound foundation for postgraduate study in a wide variety of fields. The department offers a major in economics through both C&BA and the College of Arts and Sciences. Students majoring in other fields in C&BA may select economics as a non-commerce minor. Students majoring or minoring in economics are urged to consult the undergraduate advisor for recommendation of 400-level economics courses and general electives consistent with their career goals and objectives.

Economics majors must complete the "C" requirement by taking one of the following (or a similar course) approved by the department: AC 389, FI 389, OM 385, or MKT 385. Economics majors must also select a specialization or a second major. A minimum of 18 hours is required for a second major. Students may choose any second major (business or non-business) with a plan approved by the Department. Approved majors already exist for math and modern languages. Students selecting non-business minors must also complete a specialization in business.

Faculty Advisor: Cover

Major in Economics

Major Program Requirements¹

Courses	Hours
EC 308 Intermediate Microeconomics ²	3
EC 309 Intermediate Macroeconomics ²	3
FI 301 Introduction to Financial Institutions and Markets.....	3
Additional EC courses.....	9

Total: 18 hours

¹EC 470 is strongly recommended for those considering graduate work in economics or business.

²A grade of "C" or higher is required in EC 308 and EC 309.

Dual Major in Economics and Mathematics

The dual major in economics and mathematics is for students with strong quantitative skills who want to apply those skills in the field of economics. This curriculum is ideal for students who plan a career that involves forecasting and/or an understanding of formal economic modeling. It also provides students with the mathematical background necessary for pursuing a doctoral degree in economics. Students in this degree program are formally enrolled in the Culverhouse College of Commerce, but the curriculum is determined by both the College of Commerce and the College of Arts and Sciences. **Faculty Advisor:** Cover

Major Program Requirements

Courses	Hours
EC 308 Intermediate Microeconomics*.....	3
EC 309 Intermediate Macroeconomics*.....	3
EC 471 Econometrics.....	3
EC elective.....	3
FI 301 Financial Institutions and Markets.....	3
FI 389 Computerized Management Information Systems.....	3
MATH 355 Theory of Probability.....	3
MATH 451 Mathematical Statistics I.....	3

Total: 24 hours

*A grade of "C-" or higher is required in EC 308 and EC 309.

In addition to the economics major, the following courses are required for the major in mathematics:

Courses	Hours
EC 413.....	3
MATH 227 Calculus III.....	4
MATH 237 Applied Matrix Theory or	
MATH 257 Linear Algebra.....	3
MATH 238 Applied Differential Equations I.....	3
MATH electives (300 or 400 level*).....	6

Total: 19 hours

*The following courses **cannot** be counted as MATH electives: MATH 303, 309, 402, 405, 406, 445, 467.

FINANCE

Finance majors must complete the "C" requirement by taking one of the following or a similar course approved by the department: AC 389, FI 389, OM 385, or MKT 385. Finance majors also must select a specialization or a second major. A minimum of 18 hours is required for a second major. Students may choose any second major (business or non-business) with a plan approved by the Department. Approved majors already exist for Math and Modern Languages. Students selecting non-business minors must also complete a specialization in business.

Major Program Requirements

Courses	Hours
EC 308 Intermediate Microeconomics.....	3
EC 309 Intermediate Macroeconomics.....	3
FI 301 Introduction to Financial Institutions and Markets	3
FI 410 Intermediate Financial Management.....	3
FI 412 Money and Capital Markets.....	3
FI 414 Investments.....	3

Total: 18 hours

Dual Major in Finance and Mathematics

The dual major in finance and mathematics is for students with strong quantitative skills who want to apply those skills in the field of finance. This curriculum is ideal for students who plan a career that requires an understanding of financial modeling or intend to go to graduate school. Students in this degree program are formally enrolled in the Culverhouse College of Commerce, but the curriculum is determined by both the College of Commerce and the College of Arts and Sciences.

Faculty Advisors: Brooks, Helms, and Schlesinger.

Major Program Requirements

Courses	Hours
EC 308 Intermediate Microeconomics.....	3
EC 309 Intermediate Macroeconomics.....	3
FI 301 Introduction to Financial Institutions and Markets.....	3
FI 410 Intermediate Financial Markets.....	3
FI 389 Computerized Management Information Systems.....	3
FI 412 Money and Capital Markets.....	3
FI 414 Investments.....	3
MATH 355 Theory of Probability.....	3
MATH 451 Mathematical Statistics with Applications I.....	3

Total: 27 hours

In addition to the finance major, the following courses are required for the major in mathematics:

Courses	Hours
EC 413 Economic Forecasting and Analysis.....	3
MATH 227 Calculus III.....	4
MATH 237 Applied Matrix Theory or	
MATH 257 Linear Algebra.....	3
MATH 238 Applied Differential Equations I.....	3
MATH electives (300 or 400 level).....	6

Total: 19 hours

*The following courses **cannot** be counted as MATH electives: MATH 303, 309, 402, 405, 406, 445, 467.

Dual Major in Finance and Economics

Faculty Advisors: Helms and Cover

EC 308 Intermediate Microeconomics.....	3
EC 309 Intermediate Macroeconomics.....	3
FI 301 Introduction to Financial Institutions and Markets	3
FI 389 Computerized Management Information Systems.....	3
FI 410 Intermediate Financial Management.....	3
FI 412 Money and Capital Markets.....	3
FI 414 Investments.....	3
Approved FI elective.....	3
Additional EC courses.....	12

Total: 36 hours

Department of Information Systems, Statistics, and Management Science (MIS, OM, ST)

Professor Michael D. Conerly, Department Head
Office: 300 Alston Hall

MANAGEMENT INFORMATION SYSTEMS

The MIS program focuses on business-oriented information technology innovations to open new markets and improve business operations by leveraging information systems. Students learn to combine core business and technology knowledge to excel as they start their careers in roles such as business analyst, consultant or app designer. Graduates choose among opportunities in consulting, corporate, government, not-for-profit, and start-up organizations. The program culminates with a two-semester industry-sponsored practicum project that starts with situational analysis, then proceeds through cause and effect analysis, determining the features needed to solve the problem, and then designing, building, testing, and delivering the business solution. This emphasis on experiential learning, that is, applying classroom concepts, results in graduates that are highly sought after by firms in Alabama, throughout the southeast, and nationally. Continual client feedback and faculty guidance ensures project success and educational growth. Students in MIS are encouraged to broaden their business and international knowledge through a specialization in health care management, marketing, accounting, finance, operations management or international studies/foreign language. The MIS program and corporations sponsor more than 90 scholarships solely for MIS majors. Prospective students are encouraged find out more about the MIS program by visiting cba.ua.edu/mis and calling the program office at 348-5525 to set up a visit with a student ambassador or faculty member.

Program Director: David Hale

Academic Advisor: Heather Davis

Admission and retention policies. Each prospective MIS student must submit an application demonstrating that all criteria for admission have been met. A student is eligible for admission if he or she (1) meets the criteria for admission to the upper division of the Culverhouse College of Commerce and Business Administration; (2) has completed at least 60 semester hours of college credit with a cumulative GPA of 2.5 or higher for all coursework attempted, or a GPA of 3.0 or higher for the last 30 hours attempted; and (3) has completed CS 120 and 220 and MIS 295 with grades of "C-" or better.

MIS 295 is recommended for second-semester freshmen or sophomores who are interested in majoring in MIS. MIS 200 is an introductory course for non-majors and can be taken by freshmen.

MIS majors must complete all required MIS courses with a grade of "C-" or better. A student who enrolls in any of the required MIS courses twice and fails to earn a passing grade will not be permitted to take additional MIS courses or to receive a degree with MIS as the major from The University of Alabama. Enrollment is defined as registration for a course resulting in the recording of hours attempted on the student's record. A grade of "W" is counted as an enrollment. Priority for enrollment in upper-division MIS courses is given to students who are not repeating the courses.

Major Program Requirements

Courses	Hours
MIS 320 Application and Information Architecture.....	3
MIS 330 Database Administration	3
MIS 430 Systems Analysis and Design I.....	3
MIS 431 Systems Analysis and Design II.....	3
MIS 450 Systems Construction and Implementation I.....	3
MIS 451 Systems Construction and Implementation II.....	3

Total: 18 hours

OPERATIONS MANAGEMENT

Operations management (OM) focuses on the effective management of the resources and activities that produce and deliver the goods and services of any business. OM professionals manage the people, materials, equipment, and information resources that a business needs to produce and deliver its goods and services. They also design and manage the

business processes and activities that actually produce those goods or services. Business operations are a critical element of every business, so there is a wide range of opportunities for OM professionals. Manufacturing management has been and continues to be a significant area of opportunity. The tremendous growth of the automotive industry in the state of Alabama has produced great job opportunities for OM professionals with major automobile manufacturers and their suppliers. OM professionals can also pursue careers in the distribution and warehousing of products as well as transportation and logistics operations. In fact, the entire field of supply chain management relies heavily on the effective management and coordination of business operations, from manufacturing to transportation and distribution. Whether products that are sold in the U.S. are manufactured overseas or in the U.S., at least some part of the supply chain must be operated and managed in the U.S. The growth of service industries in the state, such as banking, also provides opportunities for OM professionals to manage business operations in service-oriented companies. OM professionals hold a wide range of different job titles such as materials manager, production planner, scheduler, inventory manager, transportation/logistics manager, purchasing/procurement manager, supply chain manager, and quality manager. However, they all employ OM techniques and concepts to effectively manage the resources and processes of their business operations. Because OM professionals are familiar with the resources and operations that are critical to success, they are often well-positioned for promotion to upper levels of business management. OM majors must take OM 385 to complete their computer (C-designation) requirement.

Faculty Advisors: Sox and Petty

Academic Advisor: Heather Davis

Major Program Requirements

Courses	Hours
OM 310 Introduction to Management Science.....	3
OM 321 Production Planning and Control.....	3
OM 375 Statistical Quality Control	3
OM 420 Computer Simulation.....	3
OM 422 Operations Scheduling	3
OM 423 Inventory Management.....	3

Total: 18 hours

Department of Management and Marketing (MGT, MKT)

Professor Rob Morgan, Department Head
Office: 104 Alston Hall

MANAGEMENT

Management is a major that focuses on the crucial processes by which the resources of an organization are systematically directed toward the achievement of its mission. Management majors gain the flexibility to apply their skills in a variety of settings. Some graduates work in international management. Others go to work in small business environments; still others begin their professional careers as management trainees in large organizations.

Major Program Requirements

Courses	Hours
MGT 301 Introduction to Human Resources Management.....	3
MGT 320 Leadership.....	3
IBA 350 Introduction to World Business.....	3
MGT 386 Fundamentals of Entrepreneurship.....	3
MGT 341 Contemporary Ethical Issues & Corporate Responsibility.....	3
MKT 410 Innovation.....	3

Total: 18 hours

MARKETING

Marketing is concerned with (1) the identification and assessment of consumer and industrial market needs and (2) the development of marketing programs to satisfy those needs. Marketing personnel in profit and nonprofit organizations analyze markets and industries to define new opportunities and refine existing opportunities. Marketers are also responsible for developing and managing products, promotional programs, distribution systems, and prices that are appropriate to the targeted market

opportunities. Students who major in marketing enjoy a wide range of employment opportunities. Entry-level opportunities exist in sales and sales management, retail management, product and brand management, market research, advertising, distribution and logistics, purchasing, and other areas. **Faculty Advisors:** Allaway, Beatty, Calamus, Davis, D'Souza, Ellinger, Franke, Hill, Morgan, Mothersbaugh, Reynolds, and Richey

Major Program Requirements

Each marketing major is required to earn a "C-" or better in all courses in the major.

Courses	Hours
MKT 313 Buyer Behavior	3
MKT 337 Personal Selling.....	3
MKT 411 Supply Chain Management.....	3
MKT 410 Innovation.....	3
MGT 320 Leadership	3
MKT 487 Strategic Marketing	3

Total: 18 hours

GENERAL BUSINESS

The general business major program is designed for students desiring a broad understanding of business that spans all facets of the business enterprise and provides students with a broad philosophical and economic perspective about business operations.

This major is intended for business students who wish to gain breadth within their undergraduate studies. It is particularly appropriate for students who wish to combine a study of business with a minor or extended coursework in a non-business field. The general business major is also suitable for students who intend to pursue a specialized master's degree in business or who are interested in law school or other professional fields.

A minimum grade point average of 2.0 is required for admission to the general business major. **Faculty Advisor:** McLeod

Major Program Requirements

Courses	Hours
AC 351 Managerial Accounting Decisions or AC 352 Corporate Financial Reporting.....	3
EC 400 Analysis of Economic Conditions at the Micro/Macro Levels or EC 308 Intermediate Microeconomics or EC 309 Intermediate Macroeconomics.....	3
FI 400 Financial Institutions, Markets, and Investment or FI 301 Introduction to Financial Institutions and Markets.....	3
MGT 320 Leadership or MGT 341 Contemporary Ethical Issues and Corporate Responsibility or MGT 386 Foundations of Entrepreneurship or IBA 350 Introduction to World Business.....	3
MIS 200 Fundamentals of Management Information Systems.....	3
MKT 310 Introduction to Electronic Commerce or MKT 313 Buyer Behavior or MKT 321 Retail Management or MKT 337 Personal Selling or MKT 444 Promotional Management.....	3

Total: 18 hours

Dual Major in Business and Foreign

Language

The modern business environment is truly global, and the dual major provides students the training necessary to succeed in that environment. The dual-major student completes a degree and a major in management, management information systems, marketing, finance, or economics, as well as a second major in French, German, or Spanish. The result is a superior skill set derived from cutting-edge business training and thorough study of a language and the culture associated with it. Such a program creates students who are technically proficient, culturally sensitive, and flexible enough to deal with the business challenges of the future.

Dual-Major-Program Courses

In addition to the requirements for a major in business, students must complete the requirements in a foreign language described in the following

sections. Students should consult with their academic advisor about current requirements for dual-degree programs.

Choose one of the following four language majors:

French Track (FLFR)

Required FLFR Core Courses

Language courses (FR 201 and FR 202).....	6
Civilization/culture courses (FR 331, FR 361, FR 431, FR 461, or topic-appropriate FR 470 or FR 480).....	6
Literature courses (FR 341 or FR 351 and topic-appropriate FR 470 or FR 480 or other literature course or both FR 341 and FR 351).....	6

Other Requirements for the FLFR Track

15 additional hours of FR courses at the 300 level or above, which must include FR 321 Voices in French, FR 323 Text, Image and Word, and FR 324 Commercial French. A minimum of 12 hours of coursework at the 300 level or above must be earned on this campus. Related course from other departments must first receive approval from the French advisor.

Total hours for FLFR.....**33**

German Track (FLGN)

Required FLGN Core Courses

Language courses (GN 201 and GN 202).....	6
Civilization/culture courses (GN 371 and GN 372).....	6
Literature courses (GN 403 and GN 404 or other GN literature course).....	6

Other requirements of the FLGN track

14 additional hours of GN coursework, which must include GN 361 Intermediate Conversation and Composition I and GN 365 Business German. GN 450 Intermediate Business German is highly recommended. A minimum of 12 hours of coursework at the 300 level or above must be earned on this campus. Related courses from other departments must first receive approval from the German advisor.

Total hours for FLGN.....**32**

Spanish

SP 353 Spanish Conversation.....	3
SP 356 Advanced Grammar and Composition.....	3
SP 360 Commercial Spanish.....	3
SP 364 Spanish Civilization.....	3
SP 366 Spanish-American Civilization.....	3
Choose two of the following:	
SP 371 Survey of Spanish Literature	
SP 372 Spanish Literature	
SP 375 Masterpieces of Spanish-American Literature I	
SP 376 Masterpieces of Spanish-American Literature II.....	6
SP 400-level elective.....	3
SP 400-level elective.....	3

Total hours for Spanish.....**27**

CURRICULUM VII—FOR COLLEGE GRADUATES

The business curriculum for college graduates is available to those who hold baccalaureate degrees from regionally accredited institutions in any recognized field of study other than business and who have grade point averages of 2.5 or higher for all college-level coursework attempted and 2.5 or higher for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the assistant dean for undergraduate programs for admission if the student's grade point average is 2.5 or higher for the last 30 hours of coursework attempted. Curriculum VII leads to the Bachelor of Science in Commerce and Business Administration degree, following completion of the undergraduate work outlined below. Curriculum VII is for the college graduate who wants a professional degree in commerce and business administration on the undergraduate level. At least 30 semester hours of study in residence in the College of Commerce and Business Administration are required.

In addition to the 2.5 grade point average requirement, the prerequisites for Curriculum VII include completion of the requirements for the Alabama

Statewide General Studies Core Curriculum in natural science, fine arts, literature and humanities, history and social and behavioral sciences and the University of Alabama Core Curriculum requirement in computer science or foreign language. Students must complete AC 210, CS 102, EC 110 and EC 111, LGS 200, MATH 121, and ST 260 (or their equivalents) with grades of "C-" or higher. Any of this coursework completed in pursuit of the first bachelor's degree will apply to the second degree under Curriculum VII. These prerequisites must be completed before Curriculum VII students can enroll in 300- or 400-level C&BA courses. Failure to complete the prerequisites will result in administrative disenrollment from 300- or 400-level C&BA courses. The course requirements of Curriculum VII follow.

Advisor: Maguire

Prerequisites

Core requirements.....	26–34
AC 210.....	4
CS 102.....	3
EC 110.....	3
EC 111.....	3
LGS 200.....	3
MATH 121.....	3
ST 260.....	3
	56

Business Administration Functional Field Courses

FI 302 Business Finance.....	3
GBA 490 Strategic Management.....	3
MGT 300 Organizational Theory and Behavior.....	3
GBA 300 Managerial Communication Strategies.....	3
MKT 300 Marketing.....	3
OM 300 Introduction to Operations Management.....	3
	18

Major Program Requirements

27–30

Courses selected from major programs listed under Curriculum I, Curriculum II, and Curriculum IV

Total for B.S. degree: 93–104 hours

University Scholars Program

The University Scholars program allows students to pursue graduate and undergraduate degrees concurrently. These programs are available in several business disciplines and serve students who have exceptional ability. Students should contact their major department for details.

Specializations

Specializations are offered in the areas listed below. The list is subject to change, and students should consult with their advisor and major department about current offerings. Students must meet all course-specific prerequisites for each course in a specialization and must meet the requirements for admission to the upper division of the College in order to take 300- and 400- level courses. **Students cannot use courses from their major program to satisfy specialization requirements unless otherwise noted, or unless permission is granted by the department head.**

Accounting

For non-accounting majors

AC 310, AC 311, and one of the following: AC 361, AC 371, AC 389

Actuarial Science

Students taking this specialization must complete the calculus sequence. Non-finance majors will need to take FI 410 and FI 414 if they plan to sit for the actuarial exams.

ST 454, ST 455, ST 452, FI 419, FI 389, EC 413, FI 341

Applied Microeconomics

Students must major in economics.

Three of the following:

EC 410, EC 412, EC 423, EC 430, EC 444, EC 480

Banking and Financial Services

Students must major in finance.

FI 421, FI 341, and AC 351 or AC 352

Business Information Technology

MIS 295, 320, 330, 340, and CS 120 and 220

Business Intelligence

OM 310, MIS 440, ST 451

Consumer Marketing

Three of the following: Mkt 310, Mkt 313*, Mkt 321, Mkt 444, Mkt 473

*for non-marketing majors only

Economics

For non-economics-majors

EC 308, EC 309, and two electives in economics

e-Decision Support

MIS 200, MIS 340, MIS 440

Entrepreneurship

Mgt 482, Mgt 486, Mkt 473

Finance

For non-finance-majors

EC 308, FI 301, and two of the following: FI 410, FI 412, FI 414

Financial Management

Students must major in finance.

FI 411 (may be substituted for FI 412 in the finance major), FI 413 (may be substituted for EC 309 in the finance major), AC 310, AC 311, AC 361. AC 389 should be taken to meet the C requirement.

Global Business

IBA 350, IBA 351, Mkt 455, IBA 460

Health Care Management

HCM 370, HCM 371, HCM 473, HCM 492

Human Resource Strategy

Three of the following: Mgt 411, Mgt 420, Mgt 427, Mgt 432, Mgt 477, Mgt 478

Insurance

FI 341 and five of the following (three will count as part of the finance major): FI 360, FI 410, FI 412, FI 414, FI 442, FI 443, FI 444

International Economics

Students must major in economics and must have at least three years of foreign language and spend a semester abroad.

IBA 350, EC 430, EC 431

International Finance

Students must major in finance and must have at least 3 years of foreign language and spend a semester abroad.

IBA 350, FI 431, EC 430

Investment Management

Students must major in finance.

FI 415, FI 419, AC 351

Macroeconomic and Monetary Policy

Students must major in economics.

EC 413, EC 416, EC 431

Management Communications

Mgt 380, Mgt 422, Mgt 497

Personal Wealth Management

Non-finance majors will need to complete FI 414 to sit for the Certified Financial Planner exam.

FI 341, AC 371, LGS 403, FI 444, FI 360

Production Management

Students must major in operations management.
OM 425, OM 487, OM 497, OM elective

Professional Accounting

The professional accounting specialization is designed for students who plan to go to graduate school to receive a master's degree in accounting (MAcc or MTA) and/or sit for the CPA exam.
AC 456, AC 471, and one of the following: AC 492, FI 410, FI 411, FI 412, FI 414, FI 442, or elective approved by advisor

Professional Selling

MKT 338, MKT 437, MKT 473

Public Policy and Law

Students must major in economics.
Three of the following: EC 410, EC 412, EC 423, EC 444, EC 480, EC 482

Quantitative Economics

Students must major in economics *and* complete the calculus sequence (MATH 125, 126, 227, and 237).
EC 413, EC 470, EC 471, ST 454 or MATH 355, ST 455 or MATH 451.

Quantitative Finance

Students must major in finance *and* complete the calculus sequence (MATH 125, 126, 227, and 237).
EC 413, FI 419, ST 454 or MATH 355, ST 455 or MATH 451

Real Estate Specialization

FI 331, FI 436, and two of the following: LGS 407, FI 432, FI 334, CE 463

Supply Chain Management

OM 417, OM 427, MKT/IBA 460, MKT 422

Certificate in Ethics and Social Responsibility

Students in business are encouraged to complete a Certificate in Ethics and Social Responsibility, which will be recognized on their transcripts. Goals of the program are to increase students' abilities to recognize moral dilemmas and exercise moral decision-making abilities and to develop insights into contemporary ethical issues faced by individuals and organizations. In addition, a goal of the program is to focus campus attention on the importance of addressing ethical issues and creating graduates who will be recognized for having formally addressed these issues.

Requirements:

- One course with a primary ethics and social responsibility focus selected from a preapproved list such as PHL 200 Introduction to Ethics, and MGT 341 Contemporary Ethical Issues and Corporate Responsibility.
- One course in service learning selected from a preapproved list.
- Participation in four activities or events with approved ethics and social responsibility content. These events would include presentations on relevant subjects and discussion sessions covering readings or other assignments. At least one event should be held each semester.
- Participation in Moral Forum at least once.

Certificate in Business Analytical Excellence

Courses required for the Certificate in Business Analytical Excellence provide a background for graduate work in business or for work in technically demanding business fields. This program allows students to utilize the math skills they acquired in high school and to develop quantitative skills equivalent to those developed by engineering graduates. In addition, the designation allows students to signal to employers and graduate programs that they have completed a specialized technical curriculum.

Requirements:

- MATH 125, MATH 126, and MATH 227
- Three of the following:

MATH 237
MATH 238
ST 454 or MATH 355
ST 455 or MATH 451
EC 413
EC 471

ST 450

ST 451

MATH 422

MKT 473

- A GPA of 3.5 or above at the time of graduation

Minor in Natural Resources Management

Students in the College of Commerce, especially those specializing in real estate, may wish to consider the minor in Natural Resources Management offered by the College of Arts and Sciences:

Required Classes**12 hours (meet prerequisites for all elective courses listed) (NS)**

Courses	Hours
GEO 101 Dynamic Earth or	
GEO 105 Sustainable Earth (lecture and laboratory).....	4
GY 101 Principles of Physical Geography: Atmospheric Processes (lecture and laboratory).....	4
BSC 114 and BSC 115 Principles of Biology I (lecture and laboratory) or	
BSC 116 and BSC 117 Principles of Biology II (lecture and laboratory).....	4

Elective Classes**9 hours (select from at least two groups)**

Earth Courses	Hours
GEO 306 Hydrogeology.....	3
GY 363/GEO 363 Geomorphology (lecture and laboratory).....	3
GY 402 Climatology.....	3

Life Courses

Life Courses	Hours
BSC 303 Field Zoology (lecture and laboratory).....	3
BSC 320 Freshwater Studies (lecture and laboratory).....	4
BSC 414 Dendrology (lecture and laboratory).....	3
BSC 415 Ecology of Aquatic Plants and Wetland Ecosystems.....	3
BSC 497 Discovering Alabama.....	3
(a 1-hour course offered in the summers by the Alabama Museum of Natural History)	

Policy and Process Courses

Policy and Process Courses	Hours
GY 339 Natural Resources and Environmental Planning.....	3
BSC 482 Conservation Biology (four service-learning experiences).....	3

Practicum/ Internship/Externship—3 hours

Practicum/ Internship/Externship—3 hours	Hours
Courses	
BSC 396 Resident Study at an Approved Biological Station.....	3
BSC 397 Undergraduate Research in Biological Sciences.....	3
GY 483 Environmental Science Internship.....	3

Distance Education Course from Auburn University—2 hours

Course Hours	Hours
FORY 4820 Forestry in the Private Sector.....	2

CULVERHOUSE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

ADMINISTRATIVE OFFICERS

J. BARRY MASON, PhD, Dean.

J. MICHAEL HARDIN., PhD, Associate Dean.

SUSAN C. WEST, MBA, Assistant Dean of Graduate Programs.

DAVID J. HEGGEM JR., EdD, Associate Dean of Undergraduate Programs.

KIM SYDOW CAMPBELL, PhD, Assistant Dean for Assessment.

GARY A. HOOVER, PhD, Assistant Dean for Faculty and Graduate Student Development.

DANIEL L. MAGUIRE, MPA, Registrar.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to title listed.

Culverhouse School of Accountancy

STONE, MARY S., PhD (Illinois), CPA (Florida). Director of the Culverhouse School of Accountancy, Hugh Culverhouse Endowed Chair in Accounting, and Professor of Accounting, 1981, 2004.

ALBRIGHT, THOMAS L., PhD (Tennessee), CPA (California). J. Reese Phifer Faculty Fellow and Professor of Accounting, 1990, 2002.

DEZOORT, F. TODD, PhD (Alabama). Professional Advisory Board Faculty Fellow and Professor of Accounting, 2001, 2006.

DUGAN, MICHAEL T., DBA (Tennessee), CPA (Louisiana). Ernst & Young Professor of Accounting, 1985, 2002.

FITZGIBBON, J. THOMAS, MAcc (Alabama), CPA (Alabama). Instructor of Accounting, 2006.

HATFIELD, RICHARD C., PhD (Florida), CPA (Texas). Assistant Professor of Accounting, 2006.

HOUSTON, RICHARD W., PhD (Indiana), CPA (Tennessee). Nabors Instructional Excellence Faculty Fellow and Professor of Accounting, 1995, 2006.

JOHNSON, PETER M., PhD (Arizona State), Assistant Professor of Accounting, 2010.

JURNEY, N. SUSAN., PhD (Oklahoma), CPA (Oklahoma). Assistant Professor of Accounting, 2008.

KEE, ROBERT C., DBA (Florida State). CMA Joe Lane Professor of Accounting, 1979, 2003, 2004.

LOPEZ, THOMAS J., PhD (Arizona State), CPA (California). Professor and Steven Ross-Hugh Chair of Accountancy, 2009.

MASON, JOHN O., PhD (Missouri), CPA (Alabama, Louisiana). Professor of Accounting, 1968, 1977.

MCKINNEY, LISA HUGHES, MTA (Alabama), CPA (Alabama). Instructor of Accounting, 2003.

PARSONS, LINDA, PhD, (Houston), CPA, (Texas, Virginia). Assistant Professor of Accounting, 2007.

REITENGA, AUSTIN, PhD (Kentucky), CPA (Texas), CMA (Texas). Assistant Professor of Accounting, 2006.

ROBBINS, WALTER A., DBA (Tennessee), CPA (Tennessee, Virginia). Roddy-Garner Professor of Accounting, 1981, 1992.

SCHNEE, EDWARD J., PhD (Michigan State), CPA (Kentucky). Culverhouse Professor of Accounting, 1982, 1995.

TAYLOR, GARY K., PhD (Ohio State), CPA (Ohio). Associate Professor of Accounting, 1996, 2002.

Economics, Finance, and Legal Studies

HELMS, BILLY P., PhD (Tennessee). Professor of Finance and Head of the Department of Economics, Finance, and Legal Studies, 1973, 1988.

AGRAWAL, ANUP, PhD (Pittsburgh). William A. Powell Jr. Chair of Banking and Finance and Professor of Finance, 1999.

BROOKS, ROBERT, PhD (Florida). Wallace D. Malone Jr. Endowed Chair in Financial Management and Professor of Finance, 1989, 1997.

CARROLL, CAROLYN A., PhD (Illinois). Associate Professor of Finance, 1984, 1993.

CHEN, SUSAN E., PhD (North Carolina-Chapel Hill). Assistant Professor of Economics, 2010.

CLEMENTS III, J. SHERWOOD, PhD (Georgia State). Instructor of Real Estate, 2010.

COOK, DOUGLAS O., PhD (Texas). Ehney A. Camp Jr. Endowed Chair of Finance and Investments and Professor of Finance, 2004.

COVER, JAMES P., PhD (Virginia). Young J. Boozer Teaching Excellence Faculty Fellow and Professor of Economics, 1982, 2000.

DOWNS, THOMAS, PhD (Purdue). Associate Professor of Finance and Angus R. and David J. Cooper Endowed Faculty Excellence Fellow, 1989, 2001.

ELDER, HAROLD W., PhD (VPI&SU). Professor of Economics, 1981, 2000.

ENDERS, WALTER, PhD (Columbia). Lee Bidgood Chair of Economics and Finance and Professor of Economics, 2000.

GUP, BENTON E., PhD (Cincinnati). Robert Hunt Cochrane/Alabama Bankers Association Chair of Banking and Professor of Finance, 1983, 1989.

HALL, RUTH ANN, JD (Alabama). Lecturer of Legal Studies, 2006.

HOLT, MATTHEW T., PhD (Missouri-Columbia). Professor of Economics, 2010.

HOOVER, GARY A., PhD (Washington). Assistant Dean for Faculty and Graduate Student Development and Associate Professor of Economics, 1998, 2005.

JINDAPON, PAAN, PhD (Texas A&M), Assistant Professor of Economics, 2006.

KIM, HOSEONG, PhD (Alabama). Instructor of Economics, 1999.

LEATHERS, CHARLES G., PhD (Oklahoma). Professor of Economics, 1968, 1975.

LEE, JUNSOO, PhD (Michigan State). Professor of Economics, 2003, 2005.

LIGON, JAMES A., PhD (Pennsylvania). Russell Professor of Business Education and Professor of Finance, 1990, 2004.

MA, JUN, PhD (University of Washington). Assistant Professor of Economics, 2007.

MCLEOD, ROBERT W., PhD (Texas), CFP, CFA, CLU, AVA. Director, General Business Programs, John S. Bickley Faculty Fellow, and Professor of Finance, 1978, 2005.

MOBBS, H. SHAWN, PhD (Vanderbilt). Assistant Professor of Finance, 2008.

PECORINO, PAUL, PhD (Duke). J. Reese Phifer Faculty Fellow and Professor of Economics, 1994, 2001.

RABEL, WILLIAM H., PhD (Pennsylvania). John and Mary Louise Loftis Bickley Endowed Teaching Chair in Insurance and Financial Services and Professor of Finance, 2006.

REED, Robert, PhD (Penn State). Assistant Professor of Economics, 2007.

SCHLESINGER, HARRIS, PhD (Illinois). Frank Park Samford Chair of Insurance and Professor of Finance, 1987.

SILVER, J. LEW, PhD (Duke). Associate Professor of Economics, 1990.

TEMIMI, AKRAM, PhD (Illinois). Associate Professor of Economics, 1996, 2002.

UNDERWOOD, SHANE E., PhD (Pennsylvania). Assistant Professor of Finance, 2009.

VAN ESSEN, MATTHEW, PhD (Arizona). Assistant Professor of Economics, 2010.

YEH, TAO-CHEN, PhD (Alabama). Lecturer of Economics, 1998.

ZUMPANO, LEONARD, PhD (Pennsylvania State). Alabama Associate of Realtors Chair of Real Estate and Professor of Finance, 1975, 1988.

Information Systems, Statistics, and Management Science

CONERLY, MICHAEL D., PhD (Southern Methodist). Head of the Department of Information Systems, Statistics, and Management Science, and the Fred and Martha Bostick Faculty Fellow, 1982, 2005.

ADAMS, B. MICHAEL, PhD (University of Southwestern Louisiana). Professor of Statistics, 1989, 2005.

BARRETT, BRUCE E., PhD (Clemson). Associate Professor of Statistics, Coordinator of Applied Statistics Master's Program and the Young J. Boozer Teaching Excellence Faculty Fellow, 1989, 1995.

CHAKRABORTI, S., PhD (SUNY-Buffalo). Professor of Statistics, 1984, 1995.

CHAU, DUNG, MBA (Alabama). Instructor of Management Information Systems, 2008.

GIVENS, P. SHANE, MBA (Alabama). Instructor of Management Information Systems, 2007.

GRAY, J. BRIAN, PhD (Clemson). Professor of Statistics, Coordinator of Applied Statistics Doctoral Program and the James I. Harrison Family Teaching Excellence Faculty Fellow, 1990, 1999.

HALE, DAVID P., PhD (Wisconsin-Milwaukee). Associate Professor of Management Information Systems and William White McDonald Family Distinguished Faculty Fellow and Director, Aging Infrastructure Systems Center of Excellence, 1995, 2000.

HALE, JOANNE E., PhD (Texas Tech). Associate Professor of Management Information Systems and Coordinator of the Management Information Systems Doctoral Program, 1995, 2001.

HARDIN, J. MICHAEL, PhD (Alabama). Professor of Statistics and Associate Dean, 2001, 2008.

KACMAR, CHARLES J., PhD (Texas A&M). Associate Professor of Management Information Systems, 2004.

KESKIN, BURCU B., PhD (Texas A&M). Assistant Professor of Operations Management, 2007.

LODREE, EMMETT J., PhD (Missouri). Assistant Professor of Operations Management, 2009.

MANSFIELD, EDWARD R., PhD (Southern Methodist). Professor of Statistics, 1975, 1998.

MCMANUS, DENISE J., PhD (Auburn). Assistant Professor of Management Information Systems, 2005.

MELOUK, SHARIF, PhD (Texas A&M). Assistant Professor of Operations Management, 2007.

MILLER, DAVID M., PhD (Georgia Institute of Technology). J. Reese Phifer Faculty Fellow and Professor of Operations Management and Director, Alabama Productivity Center, 1983, 1985.

MITTENTHAL, JOHN, PhD (Michigan). Associate Professor of Operations Management and Coordinator of the Operations Management Master's Program, 1994, 1997.

PERRY, Marcus B., PhD (Florida State). Assistant Professor of Statistics, 2008.

PETTY, WILLIAM, MBA (Cincinnati). Instructor of Operations Management, 2007.

RAJA, UZMA, PhD (Texas A&M). Assistant Professor of Management Information Systems, 2006.

SCHMIDT, CHARLES P., PhD (Chicago). Professor of Operations Management, 1984, 1998.

SHARPE, R. SHANE, PhD (Texas Tech). Associate Professor of Management Information Systems and Director of the Computer-Based Honors Program, 1991, 1997.

SOX, CHARLES, PhD (Cornell). Professor and Director of Operations Management and University Chair of Manufacturing Management, 2002.

WEAVER, JERRY R., PhD (Tennessee). Associate Professor of Operations Management, 1980, 1986.

Management and Marketing

MORGAN, ROBERT, PhD (Texas Tech). Professor of Marketing, Head of the Department of Management and Marketing, and Reese Phifer Faculty Fellow, 1991, 2005.

ALLAWAY, ARTHUR W., PhD (Texas). Professor of Marketing and M. Thomas Collins Endowed Faculty Fellow in E-Commerce, 1982, 2003.

ARMSTRONG, CRAIG E., PhD (Texas-San Antonio). Assistant Professor of Management, 2007.

BACHRACH, DANIEL, PhD (Indiana). Assistant Professor of Management, 2002.

BEATTY, SHARON E., PhD (Oregon). Professor of Marketing and J. Reese Phifer Faculty Fellow, 1986, 1998.

CALAMUSA, JOE, MBA (Alabama). Instructor of Marketing, 2008.

CAMPBELL, KIM, PhD (Louisiana State University). Professor of Management Communication and Derrell Thomas Teaching Excellence Faculty Fellow, 1997, 2001.

CASHMAN, JAMES F., PhD (Illinois). John R. Miller Professor of Management and Coordinator of Management Programs, 1975, 2002.

DAVIS, JULLET, PhD (Penn State). Assistant Professor of Health Care Management, 1999.

DAVIS, LENITA, PhD (Cincinnati). Assistant Professor of Marketing, 2003.

DIONNE, STEVEN, PhD (Oxford). Lecturer of Management, 2009.

DRNEVICH, PAUL L., PhD (Purdue). Assistant Professor of Management, 2006.

D'SOUZA, GILES, PhD (Texas-Dallas). Associate Professor of Marketing, 1990, 1997.

DULEK, RONALD E., PhD (Purdue). John R. Miller Professor of Management, 1977, 2002.

ELLINGER, ALEX, PhD (Georgia). Associate Professor of Marketing and Derrell Thomas Teaching Excellence Faculty Fellow, 2003.

FORD, DAVID M., MBA (Louisiana). Lecturer of Marketing, 2004.

FRANKE, GEORGE, PhD (North Carolina). Professor of Marketing and J. Reese Phifer Fellow, 1994, 2002.

GREER, CHAPMAN L., PhD (UNC-Chapel Hill). Lecturer of Management, 2008.

HILL, JOHN S., PhD (Georgia). Miller Professor of Management, 1982, 1995.

HILTON, CHADWICK B., PhD (Tennessee). Associate Professor of Management Communication, Director of International Business Programs, and Miles Professor in the College of Commerce, 1986, 1998.

JACKSON III, WILLIAM E., PhD (Chicago). Professor of Management, Finance and Smith Foundation Chair in Business Ethics and Integrity, 2007.

JOHNSON, DIANE, PhD (Cornell). Associate Professor of Management and Miles-Rose Professor of Management, 1997, 2002.

KACMAR, K. MICHELLE, PhD (Texas A&M). Durr-Fillauer Chair of Business Ethics and Professor of Management, 2004.

KING, JR., JAMES E., PhD (UNC-Chapel Hill). Assistant Professor of Management, 2006.

MARINO, LOU, PhD (Indiana). Associate Professor of Management, 1997, 2002.

MARTIN, JEFFREY A., PhD (Stanford). Assistant Professor of Marketing, 2010.

MASON, J. BARRY, PhD (Alabama). Dean and Russell Professor of Business Administration, 1967, 1988.

MCINTYRE, DAVID, PhD (North Carolina). Assistant Professor of Management, 2007.

MEYER, JOYCE L., MBA (Alabama). Coordinator of the Business Strategy Game and Lecturer, Managerial Communication Strategy, 1998.

MOTHERSBAUGH, DAVID, PhD (Pittsburgh). Associate Professor of Marketing, Coordinator of Marketing Programs, and James D. Nabors Instructional Excellence Faculty Fellow, 1995, 2005.

NOLAN, HELENKA H., MBA (Alabama). Lecturer of Management, 2006.

REYNOLDS, KRISTY, PhD (Alabama). Associate Professor of Marketing and Bruno Professor of Marketing, 2005.

RICHEY, GLENN, PhD (Oklahoma). Assistant Professor of Marketing, 2003.

STRICKLAND, A.J., III, PhD (Georgia State). Professor of Management, 1969, 1982.

WHITMAN, MARILYN V., PhD (Auburn). Assistant Professor of Health Care Management, 2007.

WILLIAMS, ERIC, PhD (SUNY-Buffalo). Associate Professor of Health Care Management and Miles Professor in the College of Commerce, 1999, 2002.

Emeriti

- BAIN, TREVOR, PhD (California–Berkeley). Professor Emeritus of Management, 1974, 2000.
- BAKLANOFF, ERIC, PhD (Ohio State). Professor Emeritus of Economics, 1969, 1992.
- BARRON, F. HUTTON, PhD (Pennsylvania). Professor Emeritus of Management Science, 1983, 2000.
- BICKLEY, JOHN S., MBA, PhD (Wisconsin). Professor Emeritus of Insurance, 1968, 1986.
- CARGILE, BARRY R., PhD (Missouri), CPA (Illinois). Associate Professor Emeritus of Accounting, 1979, 2003.
- CORRIHER, JD, MBA (Indiana), PhD (Alabama). Assistant Professor Emeritus of Accounting, 1956, 1987.
- CRAMER, DALE L., MA, PhD (Louisiana State). Professor Emeritus of Economics, 1958, 1988.
- DRAKE, ALBERT E., PhD (Illinois). Professor Emeritus of Statistics, 1966, 1992.
- EVANS, JOHN S., PhD (Wisconsin). Professor Emeritus of Economics, 1968, 1997.
- EZELL, HAZEL F., PhD (Alabama). Associate Professor Emerita of Marketing, 1979, 1994.
- FISH, MARY, PhD (Oklahoma). Professor Emerita of Economics, 1966, 1999.
- FIELDEN, JOHN S., PhD (Boston University). University Professor Emeritus of Management Communication, 1971, 1993.
- FORMBY, JOHN P., PhD (Colorado). Professor Emeritus of Economics, 1982, 2002.
- GIBBONS, JEAN D., PhD (VPI). Professor Emerita of Statistics, 1970, 1995.
- GUNTHER, WILLIAM D., PhD (Kentucky). Professor Emeritus of Economics, 1968, 1999.
- HOOKS, DONALD L., PhD (Texas A&M). Associate Professor Emeritus of Economics, 1971, 2004.
- INGRAM, ROBERT W., PhD (Texas Tech), CPA (Texas). Professor Emeritus of Accountancy, 1985, 2009.
- JEAN, WILLIAM H., PhD (Purdue). Professor Emeritus of Finance, 1973, 2000.
- LEE, THOMAS A., DLitt (Strathclyde, Scotland). Professor Emeritus of Accounting, 1991, 2002.
- MATTHEISS, T.H., DBA (Maryland). Professor Emeritus of Management Science, 1976, 1994.
- MELLICHAMP, JOSEPH M., PhD (Clemson). Professor Emeritus of Management Science, 1969, 1994.
- MISIOLEK, WALTER S., PhD (Cornell). Professor Emeritus of Economics, 1975, 2009.
- MOORE, THOMAS D., PhD (Mississippi). Professor Emeritus of Management, 1965, 1994.
- MOTES, WILLIAM H., PhD (South Carolina). Professor Emeritus of Marketing, 1981, 2009.
- ODEWAHN, CHARLES A., PhD (Kentucky). Professor Emeritus of Management, 1971, 1996.
- PETTIT, MARTHA SMITH, MA (Peabody). Assistant Professor Emerita of Office Administration, 1945, 1969.
- PETTY, M.M., PhD (Tennessee). Professor Emeritus of Management, 1972, 1998.
- PHILLIPS, J. DONALD, MS (Georgia Tech), Ph.D. (Alabama). Professor Emeritus of Management, 1966, 1989.
- PREWITT, LENA B., EdD (Indiana). Professor Emerita of Management, 1970, 1994.
- RUDOLPH, PATRICIA M., PhD (North Carolina). Professor Emerita of Finance, 1976, 2001.
- RYERSON, FRANK E., M.A., PhD (Iowa). Professor Emeritus of Managerial Communication, 1962, 1986.
- SCOTT, CLYDE J., PhD (Minnesota). Professor Emeritus of Management, 1981, 2009.
- SMITH, EDWARD M., MS (North Carolina), Ph.D. (Alabama). Professor Emeritus of Marketing, 1964, 1990.
- STANFEL, LARRY E., PhD (Northwestern). Professor Emeritus of Management Information Systems, 1988, 2001.
- STERLING, JAY U., PhD (Michigan State). Associate Professor Emeritus of Marketing, 1984, 2002.
- TAYLOR, JAMES L., PhD (South Carolina). Professor Emeritus of Marketing, 1978, 2001.
- THOMPSON, ARTHUR, PhD (Tennessee). Professor Emeritus of Management, 1967, 1992.
- VALLERY, J.F., JR., PhD (Tennessee). Professor Emeritus of Economics, 1966, 1989.
- WEAVER, K. MARK, PhD (Louisiana State). Professor Emeritus of Management, 1999, 2001.
- WEBB, DARRYL L., JD (Samford). Associate Professor Emeritus of Legal Studies, 1971, 2005.
- WU, HSUI-WANG, PhD (Pennsylvania). Professor Emeritus of Finance, 1972, 1997.

Technology Support Staff

- BAKER, JOHN, BS (UAB). Director of Technology, MCSE, 1998.
- BARRY, WILLIAM, BS (Alabama). Web and Instructional Developer, 2004.
- DIANO, KIM, BS (Alabama). Technical Support Specialist, 1987, 1995.
- FULGHUM, MATT, BS (Alabama). Network Analyst, 2000.
- STEWART, FREDDIE, Technical Support Specialist, 2005.
- WHITE, PHILLIP, BS (Troy State). Applications and Support Manager, MCSE, 1998.

Staff of the Center for Business and Economic Research

- HARDIN, J. MICHAEL, PhD Associate Dean for Research.
- ADDY, SAMUEL, PhD (Pennsylvania State). Associate Research Economist and Associate Director, 1998.
- HAMILTON, DEBORAH, MA (Alabama). Assistant Director, 1977, 1985.
- IJAZ, AHMAD, M.A. (Alabama). Econometric Analyst, 1985, 1990.
- LANG, SHERRY, BFA (Alabama). Senior Graphic Designer, 1990, 2001.
- PARK, SUNJA K., MS (West Virginia). Programmer/Analyst, 1985, 1988.
- TRENT, CAROLYN, M.Ed. (Virginia). Research Associate, 1988.
- WATTERS, ANNETTE, M.L.S. (Alabama). Assistant Director, 1980, 1985.

Staff of the C&BA Academic Advising Center

- HEGGER, DAVID J., JR., EdD Associate Dean of Undergraduate Programs.
- APPLEWHITE, GARY, MS (Arkansas Tech). Academic Advisor/Coordinator, 2009.
- AVANT, MICHAEL K., MA (Georgia Southern). Academic Advisor/Coordinator, 2004.
- BARSTOW, LORI S., MA (Alabama). Academic Advisor/Coordinator, 1997.
- BUTLER, AUSTIN, BS (Stillman). Scholarship Specialist, 2009.
- FROST, BRANDY Z., MEd (Montevallo). Academic Advisor/Coordinator, 2000.
- HUMBER, JENNIFER FIELDS, MA (Alabama). Academic Advisor/Coordinator, 2005.
- LABON-SIMS, TIFFANY, MEd (Southern Mississippi). Academic Advisor/Coordinator, 2009.
- MAGUIRE, DANIEL L., MPA (Alabama). Registrar, 2008.
- MILLER, C. PAIGE, MA (Alabama). Academic Advisor/Coordinator, 2007.
- TAYLOR, MARY JANE H., M. (Kentucky). Academic Advisor/Coordinator, International Programs, 1987.
- WHEELER-GRIFFIN, KRISTI, MA (Alabama). Internship Coordinator, 2004.
- WYATT, DEBORAH L., MA (Memphis). Academic Advisor/Coordinator, 2005.

COLLEGE OF COMMUNICATION AND INFORMATION SCIENCES

HISTORY AND OBJECTIVES

The former School of Communication became the College of Communication on September 9, 1988, by action of the Board of Trustees of The University of Alabama in recognition of the school's expanded role and scope. The College is the only communication unit in the state offering the bachelor's, master's, and doctoral degrees.

The School of Communication had been created on July 1, 1973, by combining the existing Department of Journalism and Department of Broadcast and Film Communication with University of Alabama Television Services in a single administrative unit. During its first year, the School of Communication created an additional department, the Department of Advertising and Public Relations, from course sequences that had been part of the program in journalism. University Radio Services was established in 1980, as was the Communication Research and Service Center (now the Institute for Communication Research). On May 16, 1981, the Department of Speech Communication (now Communication Studies) moved from the College of Arts and Sciences to the School of Communication. On July 1, 1997, the College of Communication and the School of Library and Information Studies merged to form the College of Communication and Information Sciences. The School of Library and Information Studies began to offer its first undergraduate courses in information sciences in 1999 and a minor in fall 2000.

The purposes of the College of Communication and Information Sciences are as follows:

- To offer courses leading to undergraduate and graduate degrees in those specialized areas necessary to prepare students to pursue careers in communication- and information-related areas
- To provide students with a broad education that will enable them to become productive and creative citizens in society and leaders in their professions, their communities, and the nation
- To encourage students to pursue further formal study and self-education in communication- and information-related areas
- To engage actively in research and service

Advertising and Public Relations

Advertising and public relations are the disciplines that organizations use to communicate with their constituencies: customers, employees, suppliers, shareholders, public-interest groups, voters, and the general public. The mission of the Department of Advertising and Public Relations is to serve as a leader in the generation and dissemination of innovative concepts and methods to solve advertising and public relations problems, and to provide innovative, high-quality instruction for students.

The curriculum provides an analytical and conceptual approach to understanding and practicing advertising and public relations. Students also gain an appreciation of the role of these disciplines in society. This is not a narrow tool or method orientation. Rather, courses blend theoretical and conceptual thinking with instruction in the latest business practices. The faculty seeks to educate highly competent, focused students who will be recognized for their leadership qualities—their abilities to discern issues relating to both the practice of their profession and its role in society, to develop and execute successful communication programs, and to lead others effectively.

Communication Studies

Since its founding in 1932, the Department of Communication Studies (formerly Speech Communication) at The University of Alabama has offered liberal-arts-oriented courses focused on the most fundamental and pervasive of human activities. Whether developing and maintaining interpersonal relationships, providing leadership for groups and organizations, or fulfilling the responsibilities of public citizenship and service, communication competence is central to a rewarding personal, civic, and professional life. The mission of the department is to prepare students to be competent communicators in whatever careers they choose by fostering their abilities to think critically, to express and to advocate ideas effectively, and to understand and appreciate the diversity of human communication practices.

The department traces its disciplinary origins to the rhetorical traditions

of ancient Greece and Rome. In 20th-century programs in the United States, this academic discipline developed into an interdisciplinary field of study, encompassing both humanistic and social scientific approaches to human communication issues and practices in a broad range of public, interpersonal, and cultural contexts. Departmental courses emphasize the connections between thought, action, and public participation, studying theory and practice in the areas of rhetoric, persuasion, political communication, relational communication, organizational communication, leadership, and culture.

Communication studies majors may choose to focus in one of the following areas of study (though no tracking system exists): rhetoric and public discourse (pre-law emphasis), communication and culture, or organizational and interpersonal communication. With a degree in communication studies, graduates pursue an array of professions, such as the ministry, teaching, lobbying, human resources, sales, social work, special events planning, or speech writing, or advance to graduate study in such fields as communication, education, management, or law.

School of Library and Information Studies

The history of the School of Library and Information Studies began in 1929 when the University instituted an academic program in school librarianship within the College of Education. An Alabama Senate joint resolution in 1969 authorized The Board of Trustees of The University of Alabama to establish the Graduate School of Library Service. Since that time, the School has pursued a mission to provide students with the skills and knowledge required to meet the information needs of a diverse population. It has also grown substantially. The School has offered the master of fine arts (MFA) degree in book arts since 1985 and the PhD since 1988. In 1989, the School was renamed the School of Library and Information Studies, reflecting increasing academic and professional emphasis on emerging information technologies. In 1997, the School of Library and Information Studies merged with the College of Communication to form the College of Communication and Information Sciences. The School offered undergraduate courses beginning in 1999.

Journalism

Instruction in journalism at The University of Alabama began in 1925 with one course taught in the Department of English. The Department of Journalism was formed the next year, and 10 courses (taught by two faculty members) were listed in the University catalog. In 1930–31, journalism was first offered as a major, in combination with English or one of the social sciences; 24 hours of journalism were required. Courses in advertising and public relations were added to the curriculum in 1947. Graduate instruction leading to the Master of Arts degree began in 1950.

Information is at the heart of the program in journalism. The functioning of an open society requires an informed public. As a field of study, journalism emphasizes the gathering, assessment, and subsequent communication of information to both general and specific audiences. The student who studies journalism will be knowledgeable about the principles, structures, and techniques of modern news and information industries necessary to achieve the goal of an informed public. Students gain knowledge in the areas of writing, editing, design, photojournalism, multimedia production, history, law, ethics, and media management.

We live in an information age, but the volume of information is often overwhelming and its quality limited. It is the journalist—writing for newspapers, newsletters, magazines, radio, television, online outlets, and other media—who handles information so that the public has access to news that is accurately written. The mix of communication skills and liberal arts courses taken by journalism majors is excellent preparation for careers in other professions and for effective citizenship in the community.

Telecommunication and Film

In September 1940, the University established a Department of Radio Arts in the College of Arts and Sciences and a Division of Radio Services in the Extension Division, appointing a director to supervise both units. In 1946, the two units were separated, and the department became an exclusively

academic area, charged with educating students in broadcasting. A graduate program leading to the master of arts degree was established in 1950, at which time the department's name was changed to the Department of Radio and Television Arts.

In 1966, the department's educational role was broadened to include film studies, and its name was changed to the Department of Broadcast and Film Communication. The current name was adopted in 1989, reflecting the advent of satellites, cable systems, fiber optics, and other electronic technologies. In addition to its other programs, the department participates in the College's doctoral program in mass communication.

Electronic and cinematic mass media reflect, influence, and interact with all levels of contemporary society. Because of this, the Department of Telecommunication and Film provides an undergraduate degree program that develops discriminating consumers of the media in addition to potential professionals whose technical skill, managerial competence, reasoning ability, and ethical judgment enable them to offer media leadership. The media are considered as cultural, aesthetic, and social phenomena as well as sources of career opportunities. Telecommunication and film courses thus reflect a liberal arts and sciences orientation, with a professional focus.

ADMISSION AND RETENTION REQUIREMENTS

College of Communication and Information Sciences students should meet the general admission requirements of the University. The College has final authority in decisions concerning the possible application of junior college credit and other college credit toward a student's degree requirements.

Essential Communication Functions

College-level grammar, spelling, punctuation, diction, and typing skills are requirements for the successful completion of all communication courses at The University of Alabama. Students electing the information sciences minor must have taken either CAT 100 Computer Concepts and Applications or CS 102 Microcomputer Applications or demonstrate equivalent competency. CAT 100 or CS 102 will not earn credit toward the information sciences minor.

Lower Division and Upper Division

The curriculum of the College of Communication and Information Sciences is divided into a lower division and an upper division. The lower division consists of all communication courses at the 100 and 200 levels. The upper division consists of all communication courses at the 300 level or above. The College of Communication and Information Sciences has established both lower-division and upper-division requirements for students. All University of Alabama students who enroll in upper-division communication courses must have met the College's upper-division requirements. Students who enroll in communication courses and do not meet the College's requirements concerning prerequisite courses and grades will be administratively disenrolled on or before the first day of classes. Students who enroll in communication courses and fail to attend class meetings during the first week of classes will be disenrolled.

Lower-division requirements. A student who has completed the necessary prerequisite courses with the required minimum grade of "C-" may enroll in lower-division communication courses. Prerequisites are included in the course descriptions in this catalog, but they are subject to change.

Upper-division requirements. To enroll in upper-division communication courses, a student must have completed the necessary prerequisite courses with grades of "C-" or higher and must have an overall grade point average of 2.0 or higher.

Declaring a Major and Minor

It is the student's responsibility to declare a major in the College of Communication and Information Sciences. Application is made by filling out a major/minor form in the major department within the College. However, a student transferring from another division on campus must complete a change of division form in 297 Phifer Hall. If the transferring student has more than 45 hours, the student must also have a GPA of 2.0 or higher. The transfer of division form must be completed before an official major/minor form can be obtained from the department of choice.

A candidate for a major in the College of Communication and Information Sciences must choose a minor field of study in any department or area for which he or she is eligible, subject to both the acceptance of registration for a minor by that department or area, and approval of the minor by the student's advisor in the College.

University Honors Program

Qualified students in the College of Communication and Information Sciences are encouraged to participate in the University Honors Program. Complete information is contained in the University Honors Program section of this catalog.

SPECIAL SERVICES AND PROGRAMS Academic Advising

Each student must contact the appropriate departmental office to be assigned an academic advisor, who assists in planning the course of study and registering for classes. It is the responsibility of each student to consult faculty advisors and to select and register for the courses that are necessary to make reasonable progress, within the time period desired, toward meeting all degree requirements. This responsibility extends to seeing that all prerequisites have been fulfilled before registering for courses that have such requirements.

Any student who needs assistance with selecting courses, determining academic progress, or addressing difficulties with coursework may make an appointment with an academic advisor, another College faculty member, or any faculty member of the University.

GENERAL DEGREE REQUIREMENTS FOR THE BACHELOR OF ARTS IN COMMUNICATION

Students should refer to the "Admissions" section of this catalog for information about advanced placement, CLEP credit, CLEP subject examinations, junior college credit, and transfer credit. (The College of Communication and Information Sciences has final authority in decisions concerning the possible application of junior college credit and other college credit toward a student's degree requirements.) Information about academic bankruptcy, application for degree, class-hour load restrictions, concurrent enrollment, core curriculum requirements, drop/add, the University forgiveness policy, the pass/fail option, and second bachelor's degrees can be found in the "Student Records and General Academic Policies" section of this catalog.

In order to earn the bachelor of arts in communication degree, students must satisfy the following requirements.

Hours and Grade Points

All majors in the College of Communication and Information Sciences must complete the minimum number of semester hours required by their departments and approved by the College. Of the total number of hours required for each major, up to 16 may be earned in military science. The total hours for graduation must include the coursework specified in this catalog under the heading for the appropriate major department.

To be eligible for graduation, a College of Communication and Information Sciences major must have an overall and on-campus grade point average of 2.0 or higher, and he or she must have a grade point average of 2.0 or higher in the major and in the minor.

Grade Requirements for Courses in the Major

A student must have grades of "C-" or higher in all required and elective courses counted toward an undergraduate major in the College of Communication and Information Sciences. In addition, grades of "C-" or higher must be earned in all required external courses, including those established as prerequisites for courses in the major as well as those required directly in the major.

Liberal Arts and Sciences Requirements for APR, JN, and TCF Majors

Students majoring in advertising and public relations, journalism, and telecommunication and film must successfully complete at least 80 hours outside the mass communication area, and 65 hours in approved liberal arts and sciences courses taught in the College of Arts and Sciences, in the Department of Economics in the Culverhouse College of Commerce and Business Administration, in the Department of Communication Studies, or in other courses that meet core requirements in humanities, mathematics, social sciences, natural sciences, fine arts, and behavioral sciences.

Students should always check with the major department or the College of Communication and Information Sciences records office for specific policies pertaining to a particular department or program.

Residency Requirements

While enrolled in the College of Communication and Information Sciences, students must earn in residence on campus at least one-fourth of the semester hours required for their degrees, including 9 of the last 18 hours. The College may specify that advanced work in the major and minor fields be taken in residence.

Independent Study by Correspondence

Credit earned for correspondence courses may not exceed 25 percent of the coursework required by the University for graduation.

Absences

Students are expected to attend all classes. Specific course attendance policies are fully explained by the professors in their course outlines.

Policy on Prerequisites and Corequisites

College of Communication and Information Sciences students must satisfy all course and grade prerequisites and all course corequisites. A student who fails to satisfy prerequisites and corequisites before enrolling in a course may be administratively disenrolled from that course on or before the first day of classes. It is, however, the student's responsibility to drop a course when the specified prerequisites or corequisites have not been met.

Policy on Auditing Courses

A student who is registered for 12–18 hours may audit one course, but he or she may not take tests or a final examination in the audited course. No credit is earned by auditing courses.

Policy on Repeating Courses

Courses that satisfy requirements of a communication major may be enrolled in more than once in order to earn a minimum grade of "C-." Each enrollment is included in the cumulative hours attempted and in the computation of the grade point average, but only the final enrollment may be counted toward the degree.

Waiver of Courses

An entering student who presents prior study or experience that is apparently equivalent to a required course may petition the major department for a waiver of that required course, subject to the substitution of a higher-numbered course in its place. The student may be required to take an examination to obtain the waiver.

FURTHER REQUIREMENTS FOR MAJORS AND MINORS

Hours in the Major

Students majoring in advertising or public relations must complete no fewer than 31 hours in the major. Students majoring in journalism must complete no fewer than 35 hours in the major. Students majoring in telecommunications and film must complete no fewer than 33 hours in the major. Students majoring in communication studies must complete no fewer than 36 in the major. The student must satisfy the requirements of one of the

departments of the College (advertising or public relations, communication studies, journalism, or telecommunication and film). The maximum number of hours in the College of Communication and Information Sciences that may be counted toward the degree varies from department to department.

Hours in the Minor

No more than 27 hours in the minor may be counted toward the degree. In completing a single minor, the student is required to fulfill the requirements of the department that offers the minor. In the College of Arts and Sciences, for example, students must complete 15–22 hours in the minor subject, as required by that division's departments. Students majoring in advertising or public relations, journalism, and telecommunication and film may minor in communication studies. Students majoring in communication studies may minor in advertising or public relations, journalism, or telecommunication and film.

Students in the College of Communication and Information Sciences may pursue two minors, subject to the following restrictions:

- Communication studies majors may have no more than one minor from the departments of advertising and public relations, journalism, and telecommunication and film.
- At least one minor must be taken in the College of Arts and Sciences.
- Advertising and public relations, journalism, and telecommunication and film majors may not minor in any College of Communication and Information Sciences department except communication studies.
- All students must complete in residence a minimum of 6–9 hours of courses numbered 300 or above in their major and minor subjects depending on department.

Double Majors

A mass communication student in the College of Communication and Information Sciences may pursue a second major in communication studies or in the College of Arts and Sciences, subject to the following provisions:

- The second major must be approved by the head of the department in which the student is enrolled.
- The student must meet all of the requirements for the second major that are in effect at the time the second major is declared.
- At the time the second major is declared, a written statement of the courses to be taken in that major must be signed by the appropriate academic advisor in the department administering the second major.

Transfer Students

Transferability refers to the conditions under which The University of Alabama accepts credit from other postsecondary institutions for inclusion in the student's record. The *applicability* of transferred credit toward a University of Alabama degree refers to the prerogative of an academic division to count specific transferred credit toward the student's degree requirements. Transfer students admitted to The University of Alabama may apply to have their transcripts evaluated by the College of Communication and Information Sciences records office. It is essential to have transcripts evaluated prior to enrolling in any courses in the College of Communication and Information Sciences.

A transfer student must have earned a grade point average of 2.0 or higher (on a 4.0 scale) at the institution(s) previously attended. The student must have earned a grade of "C-" or higher in all transferred courses that are used to satisfy major requirements in the College of Communication and Information Sciences. No more than 18 hours of eligible 100-level and 200-level courses in the major may be transferred. No 300-level or 400-level (junior/senior) courses may be transferred unless special permission is granted by the major department. No more than 21 hours in a single subject may be transferred.

A student may transfer a total of 88 hours from another accredited four-year institution or a total of one-half of the hours needed for a degree from a junior college, provided that these maximum numbers do not conflict with accreditation requirements or other divisional requirements.

Courses Outside the Major and Minor

No more than 21 hours in any single subject other than the major or minor may be applied in fulfilling the minimum-hours graduation requirement (see aforesaid "Hours and Grade Points" for minimums).

Discipline-Specific Minors in Business for Non-Business Majors

Students enrolled in divisions of the University other than the Culverhouse College of Commerce and Business Administration may apply for admission to one of the business minors supported by the College, subject to the provisions stated below. Approval of the student's dean is required.

Except for the general business minor, which requires a minimum grade point average of 2.0, non-business majors admitted to a business minor must have grade point averages of 2.5 or higher for all college-level coursework attempted and for all University of Alabama coursework attempted. A student whose grade point average falls below these standards may petition the associate dean for undergraduate programs of the Culverhouse College of Commerce and Business Administration for admission to the business minor if the student's grade point average for the last 30 hours attempted is 2.5 or higher. A student admitted to a business minor will be permitted to enroll in all courses required for that specific minor even if the student's grade point average subsequently falls below 2.5, provided all other enrollment requirements are met.

Non-business students must complete the course-specific prerequisites for each minor-program course and must have earned credit for a minimum of 61 semester hours at the time they enroll in 300- to 400-level courses. Non-business students may earn degree credit for no more than 30 semester hours of C&BA courses (excluding EC 110, EC 111, and ST 260).

Failure to comply with these policies will result in administrative disenrollment from C&BA courses.

Entrepreneurship

Courses	Hours
AC 210.....	4
EC 110.....	3
MGT 300.....	3
MGT 386.....	3
MGT 482.....	3
One of the following:	
MKT 410, MKT 321, or an additional course approved by the entrepreneurship program coordinator.....	3

Total: 19

Management

Courses	Hours
AC 210.....	4
MGT 300.....	3
MGT 301.....	3
MGT 320.....	3
MGT 386.....	3
Two of the following: MGT 341, MGT 351, MGT 420, MGT 421	6

Total: 22

World Business

Courses	Hours
AC 210.....	4
IBA 350.....	3
PSC 434.....	3
MKT 300.....	3
MKT 455.....	3
Two of the following: IBA 351, IBA 459, IBA 460, EC 440, EC 442, EC 430, EC 431, EC 453	6

Total: 22

General Business

Courses	Hours
AC 210.....	4
EC 110.....	3
LGS 200	3
ST 260.....	3
Three of the following: FI 302, MGT 300, MKT 300, OM 300.....	6

Total: 19

Military Science Minor

The College of Communication and Information Sciences also recognizes a specialized minor in military science, subject to two regulations. First, a maximum of 16 hours in military science may be counted toward the degree. Second, in addition to completing the requirements of the minor in military science, students must also meet College of Communication and Information Sciences regular requirements for a minor.

Specialized Minor in Other Divisions

A student interested in a specialized minor in any other division (for example, the College of Human Environmental Sciences, College of Engineering, or College of Arts and Sciences) should contact that division.

DEPARTMENT AND PROGRAM REQUIREMENTS

DEPARTMENT OF ADVERTISING AND PUBLIC RELATIONS (APR)

Dr. Joseph Phelps, Chairperson

Office: 412 Reese Phifer Hall

Requirements for Advertising and Public Relations Majors

A total of 120 hours is required for graduation. Following the tradition of a liberal education, students must take at least 80 semester hours in courses outside the departments of advertising and public relations, journalism, mass communication, and telecommunication and film, with at least 65 semester hours being completed in the liberal arts and sciences.

Advertising and public relations majors must have at least 31 hours, and no more than 36 hours, in advertising (APR), public relations (APR), journalism (JN), mass communication (MC), and telecommunication and film (TCF) courses. Specific course requirements for the major in advertising or public relations include the following:

MC 101 Introduction to Mass Communication

MC 401 Mass Communication Law and Regulation or MC 407 Mass Communication Research

MC 400-level elective (either MC 401 Mass Communication Law and Regulation, MC 405 Mass Communication Ethics, MC 407 Mass Communication Research, MC 409 Mass Communication History, MC 411 International Mass Communication, MC 413 Communication and Diversity, MC 415 Mass Communication Processes and Effects, MC 425 Media Management, MC 421 Political Communication, or MC 495 Special Topics in Mass Communication)

One of the following major sequences:

Advertising major. APR 260 Design Applications, JN 150 Mechanics of Writing, APR 221 Introduction to Advertising, APR 300 Visual Communication, APR 322 Advertising Copywriting, APR 422 Advertising Media, APR 424 Advertising Campaigns, and either APR 418 Advanced Advertising Development or APR 423 Advertising Management

Public relations major. APR 260 Design Applications, JN 150 Mechanics of Writing, JN 311 News Writing and Reporting, APR 231 Introduction to Public Relations, APR 300 Visual Communication, APR 332 Public Relations Writing, APR 433 Public Relations Campaigns, and either APR 419 Advanced Public Relations Development or APR 432 Public Relations Management or APR 415 Online Magazine Writing*

*Requires permission of instructor.

Minors for Students Majoring in Advertising and Public Relations

The department requires each of its students to complete a minor, which may not comprise any advertising and public relations, journalism, mass communication, or telecommunication and film courses. Advertising and public relations students minor in such diverse areas as communication studies, general business, political science, art, psychology, history, mathematics, cultural studies, and languages such as Chinese, Japanese, Russian, and Spanish. No more than 27 hours in the minor may be counted

toward fulfillment of graduation requirements. At least 6 hours in the minor must be at or above the 300 level. Two minors or a second major may be pursued, but College of Communication and Information Sciences policy requires that at least one of the minors be taken in the College of Arts and Sciences.

Core Curriculum and General Education Requirements

I. Freshman composition (FC): 6 hours.....	EN 101 (3) EN 102 (3) or by exam ¹
II. Humanities (HU) and fine arts (FA): 12 hours	fine arts (3) literature sequence (6) COM 123 (3) ²
III. Natural science (N) and mathematics (MA): 11 hours.....	natural science (4) natural science (4) MATH 110 or higher or equivalent (3) ⁶
IV. History (HI) and social/behavioral sciences (SB): 12 hours.....	history (3) EC 110 (3) ^{2,6} social and behavioral sciences (3) HI or SB (3)
V. Premajor requirements:	
15–17 hours	MC 101 (3) APR 221 (3) ³ APR 231 (3) ⁴
	foreign language sequence or computer science (6–8)

ADDITIONAL UNIVERSITY OF ALABAMA CORE REQUIREMENTS

Writing (W): 6 hours⁵

¹Or EN 103, if eligible.

²Requires grade of "C–" or above.

³Required of advertising majors and highly recommended for public relations majors.

⁴Required of public relations majors and highly recommended for advertising majors.

⁵APR 322, APR 332, APR 423, APR 432, JN 311, and selected MC 400-level courses designated W may be used.

⁶Must be completed prior to enrolling in 300- and 400-level APR courses (except APR 300) required for the advertising or public relations major.

Special Department Requirements

Students are asked to make special note of the following Department of Advertising and Public Relations requirements:

• **Student responsibility.** It is the student's responsibility to understand the requirements for the advertising or public relations major or minor and to seek the advice of their assigned faculty advisor when choosing coursework. Students receive advisor assignments when they declare the advertising or public relations major or minor in 412 Reese Phifer Hall.

• **Prerequisites.** A number of courses within and outside the department require other courses as prerequisites. A student who registers for any course without satisfying the proper prerequisites will be administratively disenrolled from that course. Before registering, students are advised to review course descriptions for prerequisites and other requirements. Due to the APR prerequisite-based curriculum, it takes at least five semesters to complete the hours in the advertising or public relations major or minor.

• **Minimum grade requirement.** A grade of "C–" or higher is required in all courses counted in the advertising or public relations major or minor. In addition, grades of "C–" or higher must be earned in all required external courses, including those established as prerequisites for courses in the advertising or public relations major or minor and those required directly in the major or minor. In keeping with University policy, when a course is taken more than one time,

each enrollment will be counted in the cumulative hours attempted and used in computation of the grade point average, but only the final enrollment may count as credit toward the degree.

• **Minimum grade point averages.** A 2.0 or higher grade point average is required of all students who have earned 45 hours or more of college credit and wish to transfer into the College. A student must have a grade point average of 2.0 or higher in order to register for any 300-level or higher-numbered course in the Department of Advertising and Public Relations.

• **Special requirement.** In addition to fulfilling the University Core Curriculum requirements and the requirements for the major and minor, a student majoring in advertising or public relations must complete at least 12 additional hours of 300- and/or 400-level courses in any areas of study outside of APR, JN, MC, TCF, and the student's minor. A student having a second major or second minor may reuse 300- and/or 400-level course hours from that second major or second minor in the special requirement. When choosing special requirement courses, the student should remember that at least 65 hours of the total 120 hours required for the degree must be in liberal arts and sciences (such as College of Arts and Sciences, communication studies, and economics courses).

Requirements for the Minor in Advertising or Public Relations

Students outside the College of Communication and Information Sciences (with the exception of communication studies majors) may select the minor consisting of 22 credit hours in either advertising or public relations. The following courses are required for an advertising minor: MC 101, JN 150, APR 260, APR 221, APR 300*, APR 322*, APR 422*, and either APR 418* or APR 423*. The following courses are required for a public relations minor: MC 101, JN 150, APR 260, JN 311, APR 231, APR 300*, APR 332*, and either APR 419* or APR 432* or APR 415*.

A grade of "C–" or higher is required in all courses for the advertising or public relations minor. Due to the APR prerequisite-based curriculum, it takes at least five semesters to complete the hours in the advertising or public relations minor.

*MATH 110 or higher (or equivalent) and EC 110 with grades of "C–" or higher are prerequisites to these courses for majors. Minors will need to go to 412 Phifer for prerequisite overrides for EC 110 and the math core before enrolling in one of these courses. APR 415 requires permission of the instructor.

Sample Curriculum for the Major in Advertising

FRESHMAN YEAR		
First Semester		Hours
Courses		
EN 101.....	3	
MC 101.....	3	
Fine arts.....	3	
Science with lab (N).....	4	
JN 150.....	1	
		Total: 14
Second Semester		Hours
Courses		
APR 260.....	3	
EN 102.....	3	
MATH 110 or higher or equivalent.....	3	
History.....	3	
Science with lab (N).....	4	
		Total: 16
SOPHOMORE YEAR		
First Semester		Hours
Courses		
APR 221.....	3	
EC 110.....	3	
Foreign language or computer science (FL or C).....	3–4	
Literature (first course in sequence).....	3	
Social/behavioral sciences.....	3	
		Total: 15–16

Second Semester		Second Semester	
Courses	Hours	Courses	Hours
APR 300	3	APR 300	3
(HI) or (SB) course	3	(HI) or (SB) course	3
Foreign language or computer science (FL or C).....	3-4	Foreign language or computer science (FL or C).....	3-4
Literature (second course in sequence)	3	Literature (second course in sequence)	3
Minor	3	Minor	3
	Total: 15-16		Total: 15-16
JUNIOR YEAR			
First Semester		First Semester	
Courses	Hours	Courses	Hours
APR 322 (W)	3	JN 311 (W).....	3
COM 123	3	COM 123	3
Minor	3	Minor	3
Special requirement.....	3	Special requirement.....	3
Special requirement.....	3	Special requirement.....	3
	Total: 15		Total: 15
Second Semester			
Courses	Hours	Courses	Hours
APR 422	3	APR 332 (W)	3
Minor	3	Minor	3
Minor	3	Minor	3
Special requirement.....	3	Special requirement.....	3
Special requirement.....	3	Special requirement.....	3
	Total: 15		Total: 15
SENIOR YEAR			
First Semester		First Semester	
Courses	Hours	Courses	Hours
APR 423 (W) or APR 418.....	3	APR 432 (W) or APR 419 or APR 415.....	3
MC 401 or MC 407	3	MC 401 or MC 407	3
Elective	3	Elective	3
Minor	3	Minor	3
Minor	3	Minor	3
	Total: 15		Total: 15
Second Semester			
Courses	Hours	Courses	Hours
APR 424	3	APR 433	3
400-level mass communication course	3	Elective	3
Minor	3	400-level mass communication course	3
Minor or elective	3	Minor	3
Elective or (W) course	3	Minor or elective	3
	Total: 15		Total: 15
SENIOR YEAR			
First Semester		First Semester	
Courses	Hours	Courses	Hours
APR 432 (W) or APR 419 or APR 415.....	3	APR 432 (W) or APR 419 or APR 415.....	3
MC 401 or MC 407	3	MC 401 or MC 407	3
Elective	3	Elective	3
Minor	3	Minor	3
Minor	3	Minor	3
	Total: 15		Total: 15
Second Semester			
Courses	Hours	Courses	Hours
APR 433	3	Elective	3
Elective	3	400-level mass communication course	3
Minor	3	Minor	3
Minor or elective	3	Minor or elective	3
	Total: 15		Total: 15

Sample Curriculum for the Major in Public Relations

FRESHMAN YEAR		
First Semester	Hours	
Courses		
EN 101.....	3	
MC 101.....	3	
Fine arts.....	3	
Science with lab (N).....	4	
JN 150	1	
	Total: 14	
Second Semester	Hours	
Courses		
APR 260.....	3	
EN 102.....	3	
MATH 110 or higher or equivalent.....	3	
History.....	3	
Science with lab (N).....	4	
	Total: 16	
SOPHOMORE YEAR		
First Semester	Hours	
Courses		
APR 231	3	
EC 110.....	3	
Foreign language or computer science (FL or C).....	3-4	
Literature (first course in sequence)	3	
Social/behavioral sciences	3	
	Total: 15-16	

DEPARTMENT OF COMMUNICATION STUDIES (COM)

Dr. Beth S. Bennett, Chairperson

Office: 203 Phifer Hall

A total of 120 hours is required for graduation. Thirty-three of these hours must be in courses at the 300 or 400 level.

Core Curriculum and General Education Requirements

- I. Freshman composition (FC): 6 hours
EN 101 (3), EN 102 (3) or by exam or equivalent
- II. Humanities (HU) and fine arts (FA): 12 hours
fine arts (3); literature (L) (3); humanities (6), may include COM 100¹, COM 121¹, COM 122, COM 123¹, COM 155, COM 210¹
- III. Natural science (N) and mathematics (MA): 11 hours
natural science (4), natural science (4), mathematics (3)
- IV. History (HI) and social/behavioral sciences (SB): 12 hours
history sequence (6), SB (6) may include COM 101¹, COM 220¹
- V. Pre-major requirements: 9-11 hours
COM 100 (3), or COM 101 (3), foreign language or computer science (6-8)

ADDITIONAL UNIVERSITY OF ALABAMA CORE REQUIREMENTS

Writing (W): 6 hours, may include COM 310, COM 341, COM 342, COM 413, COM 415, COM 450, COM 463¹

COLLEGE REQUIREMENT

12 hours at the 300 or 400 level outside the major, (COM)

¹These courses are cross-listed into the major.

²C⁺ courses require a prerequisite programming course that does not fulfill University Core Curriculum requirements.

Requirements for the Major in Communication Studies

A minimum of 36 hours of courses in communication studies is required for the major, with a minimum of 21 hours in the major at the 300–400 level and a minimum of 33 total hours at the 300–400 level. No more than 45 hours in communication studies may be included in the hours required for graduation.

The program of instruction, to be planned in consultation with a faculty advisor, is as follows:

NOTE: Although not required, the department *strongly recommends* that communication studies majors take both COM 100 and COM 101.

A. Foundation courses (3 hours)

COM 100 Rhetoric and Society or
COM 101 Principles of Human Communication

B. Introductory performance courses (3 hours)

Choose **ONE** of the following:

COM 104 Forensics (open to UA Forensics Team students only)
COM 121/COM 122 Critical Decision Making
COM 123 Public Speaking
COM 210 Oral Interpretation
COM 225 Small Group Communication

C. Introduction to theory and analysis (3 hours)

COM 300 Human Communication Analysis and Criticism or
COM 310 Rhetorical Criticism

D. Capstone seminar (3 hours)

COM 499 Capstone Seminar

E. Elective courses (minimum 24 hours)

Through the selection of elective courses, communication studies majors may emphasize one of the following areas of study: **rhetoric and public discourse (includes pre-law emphasis); communication and culture; and/or organizational and interpersonal communication.** Students should be aware that the courses listed under each area below are **recommendations, not requirements.** Also, students do not need to choose a particular emphasis; students should plan their individual programs of study with the guidance of a departmental advisor.

Rhetoric and Public Discourse

This emphasis area focuses on argumentation, the effective construction and critical analysis of persuasive public messages, and the role of rhetoric in constructing, sustaining, and changing the political/social/cultural/legal order. This area also attends to communication theories and practices evident in public (political/social/cultural/legal) discourse, artifacts, and campaigns. Attention is given to such areas of analysis and practice as public speaking, argumentation and debate, speech writing, and the role of media in public/social/cultural/legal contexts. The area is an ideal pre-professional emphasis for students interested in careers in the legal profession; prelaw students should prepare broadly for a legal career, and this emphasis area is one means of accomplishing this preparation. Recommended minors for students who choose this emphasis area include American studies, African-American studies, criminal justice, English, history, philosophy, journalism, political science, telecommunication and film, and women's studies.

Recommended electives (minimum 24 hours)

COM 301 Introduction to Rhetorical Theory
COM 323 Advanced Public Speaking
COM 341 Rhetoric and American Politics

COM 342 Rhetoric of Social Protest

COM 348 Argumentation
COM 366 Visual Culture and Communication
COM 413 Communication and Diversity
COM 415 African American Rhetoric
COM 425 Gender and Political Communication
COM 460 Group Leadership
COM 467 Seminar in Public Address
COM 469 Communication and Gender

Communication and Culture

This emphasis area explores public communication in a wide variety of contexts and settings. The focus is on the influence of rhetoric and visual communication on individuals, communities, and the larger social world. Students interested in careers involving community or social change or human services (e.g., the ministry), or in postgraduate study in communication studies or media studies, should consider this emphasis. Recommended minors for students who choose this emphasis area include anthropology, advertising and public relations, American studies, African-American studies, apparel and textiles, art history, English/creative writing, international studies, journalism, modern languages, religious studies, telecommunication and film, theatre, and women's studies.

Recommended electives (minimum 24 hours)

COM 340 Communication and Social Identity
COM 342 Rhetoric of Social Protest
COM 366 Visual Culture and Communication
COM 413 Communication and Diversity
COM 415 African American Rhetoric
COM 425 Gender and Political Communication
COM 463 Relational Communication
COM 467 Seminar in Public Address
COM 469 Communication and Gender

Organizational and Interpersonal Communication

The focus of this area is on knowledge and skills vital to successful communication in organizational, group, family, and other interpersonal settings. Emphases include cultural, social, and cognitive influences on personal and professional interaction and such skills as conflict resolution, small group problem solving, interviewing, and intercultural communication. It is appropriate for students interested in professional and administrative careers in business, educational, human services, or media organizations. Recommended minors for students who choose this emphasis area include advertising and public relations, general business, consumer sciences, economics, human development and family studies, international studies, journalism, management, psychology, real estate, sociology, social welfare, world business, and telecommunication and film.

Recommended electives (minimum 24 hours)

COM 220 Interpersonal Communication
COM 350 Organizational Communication
COM 352 Business and Professional Communication
COM 413 Communication and Diversity
COM 450 Advanced Organizational Communication
COM 460 Group Leadership
COM 463 Relational Communication
COM 469 Communication and Gender

Requirements for the Minor in Communication Studies

The minor in communication studies requires 21 hours of coursework in the department, including COM 100 or COM 101 and at least 6 hours at the 300 or 400 level. A grade of "C-" or higher is required in all communication studies courses counted toward the minor.

Requirements for the Leadership Communication Program (LCP) Certificate

Offered by the Department of Communication Studies, the Leadership Communication Program (LCP) is a certificate program designed to give students from around the University the opportunity to focus on the development of their communication skills in organizations with diverse groups of people, as well as the development of their leadership skills in action, through service learning and supervised study. The program consists of 15 hours.

Core Competencies (9 hours)

- Either COM 220 Interpersonal Communication or
- COM 225 Small Group Communication
- COM 350 Organizational Communication
- COM 460 Group Leadership

Elective (3 hours)

- COM 413 Communication and Diversity
- COM 469 Communication and Gender

Capstone Course (3 hours)

"Communication Training and Development"

The capstone course has a service-learning component in a not-for-profit environment and provides certificate students with hands-on experience with organizational audits and communication training.

Candidates for the certificate must complete an application form before the certificate can be awarded. Application forms must be completed and submitted no later than the semester prior to the semester of graduation.

University Scholars Program in Communication Studies

Communication Studies majors admitted into this program will be able to earn both the BA and MA in Communication Studies at The University of Alabama in five years. For the highly motivated and academically gifted student, this program offers several distinct advantages:

- faster, more economical plan of study than earning the two degrees separately
- richer undergraduate degree experience, fewer unrelated core courses, and more courses in the major
- stronger mentoring relationship with the faculty
- greater opportunity to develop understanding of the field in preparation for doctoral work

Admission into the University Scholars Program occurs in two phases. Phase I begins at the beginning of the third year, after the successful completion of 61 semester hours of study with a 3.3 GPA or better. Phase II begins after the completion of 91 semester hours, with a 3.3 GPA or better, when the student applies for admission to the Graduate School. Upon admission to the Graduate School, the student will be allowed to take graduate-level courses and begin a program of study leading to the master of arts in communication studies.

Sample Curriculum for the Major in Communication Studies

FRESHMAN YEAR

First Semester	Hours
Courses	
COM 100 or COM elective	3
EN 101.....	3
Fine arts (FA).....	3
General elective.....	3
Natural science (NS)	4

Total: 16

Second Semester	Hours
Courses	
COM 101 or COM elective	3
EN 102.....	3
Mathematics	3
Natural science (NS)	3
Social/behavioral sciences (SB).....	4

Total: 16

SOPHOMORE YEAR

First Semester	Hours
Courses	
COM introductory performance course	3
Literature course (L).....	3
Foreign language or computer science (FL or C).....	3
History sequence I (HI).....	3
Social/behavioral sciences (SB).....	3

Total: 15

Second Semester	Hours
Courses	
COM electives	6
Foreign language or computer science (FL or C).....	3
History sequence II (HII).....	3
Humanities (HU).....	3

Total: 15

JUNIOR YEAR

First Semester	Hours
Courses	
COM 300 or COM 310	3
COM elective (W), 300–400 level.....	3
Minor	6
Special requirement.....	3

Total: 15

Second Semester	Hours
Courses	
COM elective, 300–400 level.....	3
COM elective (W), 300–400 level.....	3
Minor	6
Special requirement.....	3

Total: 15

SENIOR YEAR

First Semester	Hours
Courses	
COM elective, 300–400 level.....	3
General elective.....	3
Minor	3
Minor, 300–400 level	3
Special requirement.....	3

Total: 15

Second Semester	Hours
Courses	
COM elective, 300–400 level.....	3
COM 499	3
Minor, 300–400 level	3
General elective	3
Special requirement.....	3

Total: 15

DEPARTMENT OF JOURNALISM (JN)

Dr. Jennifer Greer, Chairperson

Office: 490 Phifer Hall

The Department of Journalism offers a curriculum that mixes academics with practice to ensure that students are well schooled in writing, editing, and production across media platforms. Students also analyze issues, ethics, conventions, and practices of journalism. The departmental requirements give journalism majors both guidance and flexibility in their selection of courses.

The department's emphasis on information gathering, writing, and production in the practice of journalism—as well as the attention given to the liberal arts—qualifies graduates for careers in news and mass media. The major also lays the foundation for careers in teaching, business, law and other professions.

Some of the career options for journalism majors and minors are:

Newspaper reporting and editing. The newspaper industry – in print and online – aggressively seeks our graduates. Newspapers offer some of the best opportunities for journalism majors who are still in school and want the professional experience of internships or who have just graduated and are seeking their first jobs. Journalism majors are sought after for reporting, copy editing, photography, graphic, online production and design positions. Newspapers also seek staff for specialty products, including lifestyle magazines and specialized Web sites.

Magazine writing and editing. Our majors go on to write for, design, and edit general circulation magazines as well as those that cover almost every specialized subject in which Americans have an interest. Magazines employ managing editors, manuscript editors, department editors, production managers, art designers, photographers, designers, copy editors, writers and other staff members for both their print and online editions.

Graphics and design. Visual presentation of news and information is a key component of journalism. Choosing the best way to visually organize information has been emphasized by news organizations and mass media producers in recent decades – especially with the explosion of digital media. News organizations need people who understand the rules, conventions, and customs of design and graphic presentation in a journalistic context. Graphics and design careers are grounded in the journalistic traditions. These careers gather and synthesize information concisely and present it in ways that enhance audience understanding.

Photojournalism. Photojournalism is a fast-paced, on-the-spot approach to gathering the news through still and moving images. News organizations, magazines, sports organizations, corporations and other entities hire staff photojournalists whose primary assignments are gathering news and information with a camera. Most organizations seek photographers who can tell stories through still images and video. Many media and business organizations prefer to hire writers and reporters who also have basic photography and Web video skills, enabling more efficient and cost-effective operations.

Digital journalism. Traditional mass media, including newspaper, magazine, radio and television outlets, have taken the lead in publishing on the Internet. Most students who work in other areas of journalism (newspaper, magazines, radio, and television) also will produce for online media. Many graduates go on to work for online-only organizations. Good writers, editors, designers, and photographers with a strong commitment to accuracy and fairness are in demand by any organization with an online presence.

Newsletter editing or publishing. A fast-growing area of journalism is the specialty newsletter in print and online. These publications exist in business, politics, sports, leisure, recreation and hobbies; in other words, in almost every area of interest. Producing a newsletter takes a combination of reporting, editing, design, photography and marketing skills, making the journalism major highly valued by people in this field.

Corporate communications. Many journalism majors find jobs in corporate communications as writers, editors, photographers, designers, online producers and advisors to management on message strategy and communication techniques. Corporate communication offices seek out majors skilled in writing, photography, and design to produce newsletters, magazines, Web sites, press releases, letters, brochures, graphics, annual reports, and other materials.

Graduate studies, law school, and business. The journalism major provides students with excellent preparation for a variety of careers outside of journalism. Solid grounding in the social sciences and humanities – along with specialized journalistic training in writing, gathering information, organizing information, critical thinking, and public affairs – can open many doors. Students also find that the journalism curriculum provides solid preparation for graduate studies in a number of fields, including law school and other professional studies. Students who do well in the journalism curriculum typically perform very well on graduate school and law school examinations because of the emphasis on writing and critical thinking in our courses.

Requirements for Journalism Majors – Upper Division

A journalism major must complete 120 hours for graduation, 35 of which are in the major. The following are the University Core Curriculum courses that journalism majors must take:

I. Written composition: EN 101 (3 hours) and EN 102 (3 hours), or EN 103, if eligible, or by exam.

II. Humanities (HU) and fine arts (FA): fine arts (3 hours)
English literature (6 hours)
(choose from courses EN 205–210, and EN 249)
COM 123 (3 hours)

III. Natural sciences (N) and mathematics (MA): natural sciences (8 hours)
(must include labs)
mathematics (MATH 110 or higher) (3 hours)

IV. History (HY) and social and behavioral sciences (SB): history sequence (6 hours)
social/behavioral courses (6 hours)

V. Computer (CS) or foreign language (FL): foreign language (4–8 hours)
computer (6 hours plus CS 102)

VI. Writing (W) Writing fulfilled with required journalism courses (6 hours)

In addition to the general education requirements in the University Core Curriculum, journalism majors are required to complete 18 hours of special requirement (300 and 400-level courses outside the mass communication units) and a minor.

For the major, journalism students must select either the general sequence or the visual sequence and complete at least 35 hours within the journalism, mass communication, advertising and public relations, and telecommunication and film departments, as outlined in the sample schedule.

General Journalism Track (35–38 hours)

- MC 101 Introduction to Mass Communication
- JN 101 Journalistic Principles (1 hour)
- JN 150 Mechanics of Writing (1 hour)
- JN 261 Beginning Visual Journalism
- APR 260 Design Applications
- JN 311 News Writing and Reporting
- JN 312 Editing
- JN 315 Beat Reporting
- One of the following courses:
 - JN 411 Depth Reporting
 - JN 415 Advanced Magazine Writing
- One additional upper division JN elective (JN 382 is strongly encouraged)
- One APR/JN/MC/TCF elective
- JN 499 Journalism Issues, Practices and Ethics
- MC 401 Mass Communication Law and Regulation
- Additional APR/JN/MC/TCF elective (optional, not required)

Visual Journalism Track (35–38 hours)

- MC 101 Introduction to Mass Communication
- JN 101 Journalistic Principles (1 hour)
- JN 150 Mechanics of Writing (1 hour)
- JN 261 Beginning Visual Journalism
- APR 260 Design Applications
- JN 311 News Writing and Reporting
- JN 312 Editing
- JN 315 Beat Reporting
- Two courses in a specialty track:
 - Design: JN 320 Intermediate Visual Journalism/ JN 426 Advanced Editing and Design
 - Digital media: JN 325 Reporting and Writing Across Media/ JN 430 Digital Media
 - Photojournalism: JN 361 Intermediate Photojournalism/ JN 461 Advanced Photojournalism
- One additional visual course: Choose from: JN 320/JN 325/ JN 361/ JN 382/ JN 491/ JN 492 or any other approved JN upper division course.

- JN 499 Journalism Issues, Practices and Ethics
- MC 401 Mass Communication Law and Regulation
- APR/JN/MC/TCF elective (optional, not required)

Journalism majors must complete 18 hours of 300- and 400-level courses outside the journalism, mass communication, advertising and public relations, and telecommunication and film departments. The major is required to have up to 27 semester hours in a single minor or 22 hours maximum in each of two minors or hours as required in a second major. The course of study for the minor(s) or second major requires approval by the Department of Journalism.

Minors and electives. Popular minors and upper-level special requirements are found in history, political science, psychology, English, American studies, women's studies, anthropology, art, classics, human development and family studies, criminal justice, sociology, philosophy, religion, economics, consumer sciences, and theatre.

Grades. To receive credit toward graduation, a student must receive a "C-" or higher for all journalism and all other courses in the college.

Major status. Students should declare their majors as soon as possible by filling out a form in the Department of Journalism office, 490 Phifer Hall.

Advising assistance. Students will be assigned individual faculty advisors after they have completed JN 311. Freshman and sophomore students will be advised in group sessions. Students will be advised during a two-week period each semester just prior to registration. However, if questions or special problems arise, students may make appointments with their academic advisors or in the journalism office at any time during the semester.

Professional experience. Students should seek a variety of media work experience, exploring opportunities at the campus newspaper, digital publications, WVUA-TV, campus radio stations, the yearbook, literary magazines, departmental and alumni newsletters, and in University public relations and sports information offices.

Students are strongly encouraged to seek internships with professional media organizations following throughout their study at UA. The Department of Journalism has ongoing internship programs with *The Tuscaloosa News*, WVUA and several other local media outlets. Internships may be completed for credit when the student has completed 60 semester hours and JN 311. Job and internship listings are posted on the departmental Web site and outside the JN office at 490 Phifer Hall. An internship before the senior year makes students marketable when they graduate. The College placement office, 297 Phifer Hall, also assists students with finding internships and jobs.

Minors in journalism. Three journalism minors are available to students who wish to study journalism in conjunction with other major areas of coursework.

General Journalism minor (20 semester hours): Students must complete the following courses: MC 101, JN 101 (1 hr.), JN 150 (1 hr.), JN 261, APR 260, JN 311, JN 312 OR JN 315, and MC 401.

Photojournalism minor (20 semester hours): Students must complete the following courses: MC 101, JN 101 (1 hr.), JN 150 (1 hr.), JN 261, APR 260, JN 311, JN 361, and JN 461 or 382.

Journalism Design minor (20 semester hours): Students must complete the following courses: MC 101, JN 101 (1 hr.), JN 150 (1 hr.), JN 261, APR 260, JN 311, JN 312, JN 320.

SAMPLE CURRICULUM FOR THE MAJOR IN JOURNALISM

FRESHMAN YEAR

First Semester	Hours
Courses	
EN 101.....	3
MC 101.....	3
JN 150.....	1
JN 101	1
Natural science (NS).....	4
Math	3
Total: 15	

Second Semester	Hours
Courses	
COM 123 or fine arts course	3
EN 102.....	3
Natural science (NS).....	4
Social behavioral (SB).....	3
APR 260.....	3
Total: 16	

SOPHOMORE YEAR

First Semester	Hours
Courses	
HY sequence course.....	3
JN 311.....	3
COM 123 or fine arts (FA)	3
JN 261.....	3
Foreign language (FL) or computer science (CS).....	3-4

Total: 15-16

Second Semester	Hours
Courses	
HY sequence course	3
JN 315.....	3
Foreign language (FL) or computer science (CS).....	3-4
JN 312.....	3
Minor	3

Total: 15-16

JUNIOR YEAR

First Semester	Hours
Courses	
JN 411 or 415 (general majors)/JN 320 or 325 or 361 (visual majors).....	3
Social behavioral (SB).....	3
Minor course.....	3
English literature.....	3
Special requirement.....	3

Total: 15

Second Semester	Hours
Courses	
JN upper division (general)/JN 426, 430, or 461 (visual)	3
Literature, fine arts (FA) or humanities (H).....	3
Minor course.....	3
Special requirement.....	3
Minor or special requirement.....	3

Total: 15

SENIOR YEAR

First Semester	Hours
Courses	
MC 401	3
JN 382, or other JN/APR/TCF/MC elective	3
Minor	3
Minor	3
Special requirement.....	3

Total: 15

Second Semester	Hours
Courses	
JN 499	3
Elective	3
Minor	3
Special requirement or minor (as needed)	3-6

Total: 12-15

SCHOOL OF LIBRARY AND INFORMATION STUDIES

Requirements for a Minor in Information Sciences

Information is an integral part of all human activity. Information technologies shape many processes of individual and collective existence and form new sets of relationships. Information technologies have transformed the social landscape. The SLIS information sciences minor examines the information technologies and theories fundamental to the creation, dissemination, access, organization, analysis, and use of information. It prepares students to take an active part in the implementation and development of information-handling systems that can serve human activities in a variety of environments. It helps them to understand how such developments affect a society that is increasingly dependent on information and information-handling capabilities.

New information technologies are not simply tools to be applied but processes to be developed. The information sciences minor develops

students' ability to think critically about the significance and potential applications of information technologies. Students are introduced to a variety of information technologies that may be employed in diverse contexts, including commerce, scholarship, culture, and the conduct of individuals' daily lives. The minor also provides immediate practical advantage by enhancing students' ability to locate, analyze, assess, and use information, information resources, and currently available information technologies.

The minor is designed to complement a variety of majors and to give students the skills and abilities needed to excel in the current information-intensive environment. It is especially useful for those students who wish to contribute to the development of new, innovative information systems and services that are sensitive to the human contexts in which they operate. The program introduces students to the contemporary and traditional technologies employed to capture, record, organize, retrieve, disseminate, synthesize, and analyze information. It also encourages them to examine critically the processes associated with communication and creation of new information and knowledge.

A total of 21 hours is required for the minor. Three required courses are IS 100 Fundamentals of Information Literacy, IS 201 Technologies for Building Information Systems, and IS 202 History and Effects of the Information Society. These core courses introduce theories, issues, and technologies associated with information and encourage students to understand the nature and value of new approaches to information as a resource. Students may, with the assistance of their advisors, choose the paths, or tracks, that best suit their needs. At least 6 hours must be taken in 300- or 400-level courses.

DEPARTMENT OF TELECOMMUNICATION AND FILM (TCF)

Dr. Gary A. Copeland, Chairperson

Office: 484 Phifer Hall

The major in telecommunication and film requires a total of 120 hours of coursework for graduation, of which 33 will be taken in the major. Due to accreditation requirements, total hours taken in the major are restricted, and 65 hours must be taken in liberal arts.

In addition to the general education requirements, the core curriculum requirements, the requirements for the major sequence, and the requirements for the minor, all telecommunication and film students must complete 12 hours of classes at the 300 level or higher, outside the major or minor (called the special requirement).

Because the curriculum is subject to strict accreditation requirements, students should see the department advisor regularly, beginning with the first semester on campus.

Core Curriculum and General Education Requirements

- I. Freshman composition (FC): 6 hours.....EN 101 (3)
EN 102 (3)
or by exam'
- II. Humanities (HU) and fine arts (FA): 12 hoursfine arts (3)
literature sequence (6)
COM 123 (3)
- III. Natural science (N) and mathematics (MA): 11 hours.....natural science (4)
natural science (4)
mathematics (3)
- IV. History (HI) and social and behavioral sciences (SB): 12 hours.....from history sequence (3)
social and behavioral sciences (6)
HI or SB (3)
- V. Pre-major requirements:
9–11 hours.....MC 101 Introduction to Mass Communication
computer science or foreign language (6–8)

ADDITIONAL UNIVERSITY OF ALABAMA CORE REQUIREMENTS

Writing (W): 6 hours*

*Courses in the major, minor, and special requirement with a W designation may be used to fulfill this requirement.

Additional Requirements for the Major Sequences

Media Production Sequence

TCF 100, TCF 201, TCF 215, and TCF 387

One 300-level and one 400-level TCF production course

Two additional TCF courses, 300-level or above, of which at least one must be 400-level

One 400-level MC course

One additional 400-level course in MC or TCF

Electronic News Sequence

Newsroom Emphasis:

TCF 100, TCF 288 (1 hr), TCF 331, TCF 332, TCF 333, TCF 334, TCF 335 and TCF 433; TCF 387 (2 hrs)

One additional TCF course, 300-level or above

MC 401

Sports Emphasis:

TCF 100, TCF 288 (1 hr), TCF 331, TCF 321, TCF 333 (sports), TCF 334 (sports), TCF 335 and TCF 433; TCF 387 (2 hrs)

One additional TCF course, 300-level or above

MC 401

Entertainment Emphasis:

TCF 100, TCF 145, TCF 288 (1 hr), TCF 331, TCF 321, TCF 334 (sports or newsroom), TCF 335 and TCF 433; TCF 387 (2 hrs)

One additional TCF course, 300-level or above

MC 401

Production Management Sequence

TCF 100, TCF 201 or TCF 145, TCF 215, TCF 357, TCF 367, TCF 437, and TCF 438

One addition TCF course, 300-level or above

MC 401

One additional 400-level course in MC or TCF

Media Management Sequence

TCF 100, TCF 145, and TCF 215

One additional TCF course

TCF 305 or 310; TCF 390; and TCF 445

One additional course from TCF 447, TCF 448, or TCF 449

MC 401

One additional 400-level course in MC or TCF

Critical Studies in Film and Television Sequence

TCF 100; TCF 112; TCF 145; TCF 215 or EN 409; and TCF 311

Six hours selected from TCF 340, TCF 411, TCF 433, TCF 440, and TCF 441

One additional TCF course, 300-level or above

MC 407

One additional 400-level course in MC or TCF

Documentary Sequence

TCF 100; TCF 201; TCF 215; TCF 241; TCF 361; TCF 387 or TCF 380 (with CPT); TCF 441

One additional TCF course, 400-level or above

One 400-level MC course

One additional 400-level course in MC or TCF

Minors for Telecommunication and Film Majors

Students majoring in telecommunication and film may choose one of the following four options when selecting their minors:

- a minor in any subject offered in an academic division outside the College of Communication and Information Sciences except the Culverhouse College of Commerce and Business Administration
- one of the specialized minors offered by the Culverhouse College of Commerce and Business Administration, especially for communication majors (see "Minor in Business Administration for Non-Business Majors" detailed earlier in this section)
- a minor in communication studies (students may not, however, minor in journalism, advertising, or public relations)

Requirements for a Minor in Telecommunication and Film

A minor in telecommunication and film is available to all students except those majoring in journalism, advertising, or public relations. At least 21 hours, and no more than 27 hours, are required in College of Communication and Information Sciences minors. Requirements for the minor are MC 101, TCF 100, and 15 additional hours of TCF courses, of which 6 hours must be in courses numbered 300 or above.

SAMPLE CURRICULUM FOR THE MAJOR IN TELECOMMUNICATION AND FILM

FRESHMAN YEAR

First Semester	Hours
Courses	
EN 101.....	3
MC 101.....	3
Fine arts (FA).....	3
Natural science (N).....	4
Social/behavioral sciences (SB).....	3

16

Second Semester

Second Semester	Hours
Courses	
COM 123.....	3
EN 102.....	3
TCF 100.....	3
Elective*.....	3
Natural science (N).....	4

16

SOPHOMORE YEAR

First Semester	Hours
Courses	
English literature.....	3
History (HI).....	3
Major	3
Major	3
Math	3

15

Second Semester

Second Semester	Hours
Courses	
English literature.....	3
Major	3
Minor	3
Social/behavioral sciences (SB) or History (HI)	3

15

JUNIOR YEAR

First Semester	Hours
Courses	
Foreign language or computer science (FL or C).....	3-4
Major	3
Minor	3
Social/behavioral sciences (SB).....	3
Special requirement.....	3

15-16

Second Semester

Second Semester	Hours
Courses	
Foreign language or computer science (FL or C).....	3-4
Major	3
Minor	3
Minor	3
Special requirement.....	3

15-16

SENIOR YEAR

First Semester	Hours
Courses	
Major	3
Major	3
Minor	3
Minor	3
Special requirement.....	3

15

Second Semester

Second Semester	Hours
Courses.....	.....
Elective*.....	3-5
General A&S elective.....	3
Major	3
Minor	3
Special requirement.....	3

15-17

*Elective hours vary and may or may not be necessary to reach the 120 hours required for graduation.

COLLEGE OF COMMUNICATION AND INFORMATION SCIENCES

ADMINISTRATIVE OFFICERS

SINGLETON, LOY A., PhD, Dean.
BRYANT, JENNINGS, PhD, Associate Dean for Graduate Studies.
TRAN, PAMELA D., PhD., Assistant Dean for Undergraduate Student Services.
COOPER, CARYL A, PhD, Assistant Dean for Undergraduate Studies.
PORTERA, NEELY J., Director of Development
DANNER, MELANIE, MACC, Director of Financial Affairs.
OAKLEY, JIM, Placement and Intern Director.
BRADLEY, MARY ANN, Registrar.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to title listed.

Advertising and Public Relations

BAKER, MOLLIE J., BFA (Mississippi University for Women), MA (Alabama). Instructor, 2008.
BERGER, BRUCE K., BA (Central Michigan), MA (Western Michigan), PhD (Kentucky). Professor, 1999, 2004.
CARTEE, KAREN JOHNSON, BA (William and Mary), MS, PhD (Tennessee). Professor, 1983, 1996.
CHEONG, YUNJAE, BS, MS (Ewha Womans University), MA, PhD (Texas). Assistant Professor, 2007.
COOPER, CARYL A., BS (Boston University), MA, PhD (University of Missouri–Columbia). Associate Professor, 1995, 2002.
DARIA, SUSAN E., BA, MA (Alabama). Instructor, 2002.
GONZENBACH, WILLIAM J., BA (Notre Dame), MA, PhD (North Carolina–Chapel Hill). Professor, 1991, 1998.
GOWER, KARLA K., BA, LLB (Western Ontario), MMC (Arizona State), PhD (North Carolina–Chapel Hill). Professor, 1999, 2010.
HEFLIN, KRISTEN M., BA (North Carolina–Chapel Hill), MA, PhD (Georgia). Assistant Professor, 2010.
HENLEY, TERI, BA, MBA (Auburn). Instructor, 2007.
HORSLEY, J. SUZANNE, BA (Mary Washington), MS (Virginia Commonwealth), PhD (North Carolina–Chapel Hill). Assistant Professor, 2009.
KHANG, HYOUNGKOO, BA (Hankuk University of Foreign Studies), MS (Iowa State), PhD (Florida). Assistant Professor, 2009.
KI, EYUN-JUNG, BA (Sookmyung Women's University), MA, PhD (Florida). Assistant Professor, 2007.
KINNEY, LANCE, BA (Auburn), MA (Georgia), PhD (Florida State). Associate Professor, 1998, 2004.
LAMME, MARGARET O., BA (Emory), MA (Georgia State), PhD (Alabama). Associate Professor, 2005, 2008.
LITTLE, MICHAEL, BA, MA (Alabama). Instructor, 2000.
PASADEOS, YORGOS, BBA (Bosphorus University, Turkey), MA (North Texas State), PhD (Texas). Professor, 1982, 1995.
PHELPS, JOSEPH, BA (St. Norbert College), MA, PhD (Wisconsin–Madison). Professor and Chairperson, 1990, 2009.
SIMS, TRACY R., BA, MA (Mississippi State). Instructor, 2004.

Communication Studies

BAKER, JANE STUART, BA (Texas), MA (Houston), PhD (Texas A&M). Assistant Professor, 2009.
BENNETT, BETH S., BS, MA (Ball State), PhD (Iowa). Associate Professor and Chairperson, 1981, 2008.
BLACK, JASON EDWARD, BS (Florida State), MA (Wake Forest), PhD, (Maryland). Assistant Professor, 2005, 2006.
BOYLORN, ROBIN, BA, MA (North Carolina–Greensboro), PhD (South Florida). Assistant Professor, 2009.
CARWILE, AMY MUCKLEROY, BA (Texas A&M–Commerce), MA, PhD (Alabama). Assistant Professor and Director of the Public Speaking Program, 2008, 2009.

DEAN, TREVA E., BA, MA (Alabama). Instructor, Assistant Director of Forensics, and Director of Undergraduate Internships, 2008, 2009.
EDWARDS, JANIS L., BA (U. of Denver), MA (California State–Sacramento), PhD (Massachusetts). Associate Professor, 2003.
MEARES, MARY M., BA, (American U.), MA (George Mason), PhD (New Mexico). Assistant Professor and Graduate Program Director, 2008.
MILLS, CAROL BISHOP, BA (U. of Miami), MA (Emerson), PhD (Purdue). Assistant Professor, 2005.
NELSON, MARK D., BS (Alabama–Birmingham), MA, PhD (Alabama). Associate Professor, Vice President for Student Affairs, and Vice Provost, 1991, 2006.
TANG, LU, BA (Beijing U.), MA, PhD (Southern California). Assistant Professor, 2009.
THOMPSON, FRANK M., JR., BA, MA, EdD (Alabama). Associate Professor and Director of Forensics.

Journalism

BISSELL, KIMBERLY, BS (Florida), MA (Binghamton), PhD (Syracuse). Associate Professor, 2000, 2005.
BRAGG, RICK, Nieman Fellow (Harvard). Professor of Writing, 2005.
BRANTLEY, CHIP, BA (Vanderbilt), MFA (Johns Hopkins). Lecturer, 2010.
BUNKER, MATTHEW, BS, MS (Kansas State), JD (Kansas), PhD (Florida). Professor, 1993, 2001.
CUMMINGS, MEREDITH, MA, BA (Alabama), Instructor, 2008.
DANIELS, GEORGE, BA (Howard), MA, PhD (Georgia). Associate Professor, 2002, 2009.
GREER, JENNIFER, BA, BJ (Missouri), MA (Kansas), PhD (Florida). Associate Professor and Chairperson, 2007.
LOWREY, WILSON, BA (Davidson), MA, PhD (Georgia). Associate Professor, 2003, 2007.
ROBERTS, CHRISTOPHER, BA, MA (Alabama), PhD (South Carolina). Assistant Professor, 2008.
SLOAN, DAVID, BA (East Texas State), MA, PhD (Texas). Professor, 1983, 1990.

School of Library and Information Studies

BOOK ARTS

EMBREE, ANNA, MS and Certificate (Iowa). Associate Professor, 2003, 2009.
MILLER, STEVEN KENT, BA (Wisconsin–Madison). Professor, 1988, 2006.

LIBRARY AND INFORMATION STUDIES
ALBERTSON, DAN, BA, MIS, PhD (Indiana). Assistant Professor, 2007.
AVERSA, ELIZABETH, PhD (Drexel). Professor and Director, 2003.
BONNICI, LAURIE, J., BA (Indiana), MLIS (South Florida), PhD (Florida State). Assistant Professor, 2007.
COLEMAN, J. GORDON, JR., EdD (Virginia). Associate Professor, 1984, 1989.
DALTON, MARGARET S., PhD (California–Berkeley). Professor, 1983, 1987.
EDWARDS, ANNE, MLS (University of Western Ontario). Associate Professor, 1986.
EMBREE, ANNA, MFCS (Iowa State). Associate Professor, 2003, 2009.
MACCALL, STEVEN, PhD (North Texas). Associate Professor, 1999, 2005.
MILLER, STEVE, BA (Wisconsin–Madison). Professor, 1988, 2006.
NAIDOO, JAMIE, CAMPBELL, PhD, MLIS (Alabama), BS (Tennessee at Martin), Assistant Professor, 2008.
OSBURN, CHARLES B., PhD (Michigan). Professor, 1986.
PITSCHMANN, LOUIS A., PhD (Chicago). Professor and Dean of the University of Alabama Libraries, 2001.

WALLACE, DANNY, PhD (Illinois at Urbana-Champaign), MA (Missouri-Columbia), BS (Southwest Missouri State), Professor and EBSCO Endowed Chair of Library Service, 2008.
WEDDLE, JEFFREY, PhD (University of Tennessee). Assistant Professor, 2004.

Telecommunication and Film

BRYANT, JENNINGS, AB (Davidson College), MDiv (Louisville Theological Seminary), PhD (Indiana). Professor, Associate Dean, and Ronald Reagan Professor of Broadcasting, 1987, 2005.
BUTLER, JEREMY G., BA (Brown), MA, PhD (Northwestern). Professor, 1981, 2002.
CAMMERON, DWIGHT B., BA (Alabama-Birmingham), MA (Alabama). Lecturer, 1984.
COPELAND, GARY A., BA, MA (California State-Fresno), PhD (Pennsylvania State). Professor and Chair, 1982, 2006.
EVANS, WILLIAM, BA (Rutgers), MA, PhD (Temple). Professor, 2002.
GRACE, ANDREW B., BA (University of Alabama), MA (University of Wyoming). Instructor/Director of Documenting Justice, 2009.
LEE, DOOHWANG, BA (Hankook of Foreign Studies), MA (Georgia), PhD (Michigan State). Assistant Professor, 2007, 2008.
RAIMIST, RACHEL, BA, MFA (California-Los Angeles), MA, PhD (Minnesota). Assistant Professor, 2009.
RYAN, ERIN L., BA (University of Georgia), BS (Kennesaw State University), MA (Georgia State University), PhD (University of Georgia). Assistant Professor, 2008.
SCHWARTZ, ADAM J., BA (Alabama), MFA (University of New Orleans). Assistant Professor, 2009.
SINGLETON, LOY A., BA, MA, PhD (Texas-Austin). Professor and Dean, 1989, 2006.
TRAN, PAMELA K. DOYLE, BA, MS, PhD (Tennessee). Professor, Assistant Dean, 1991, 2006, 2009.
WILLIAMS, GLENDA C., BA, MA (Montevallo), PhD (Alabama). Associate Professor, 1991, 2005.
ZHOU, SHUHUA, BS (Huanan), BA (Jinan), MA, PhD (Indiana). Associate Professor, 1999, 2006.

Emeriti

ATKINSON, JOAN L., PhD (Alabama). Professor Emerita, 1972, 2007.
BARBAN, ARNOLD M., BBA, MBA, PhD (Texas). Professor Emeritus of Advertising and Public Relations, 1987, 2000.
BROWN, JAMES A., BA, MA, PhD. Professor Emeritus of Telecommunication and Film, 1982, 1999.
STEPHENS, ANNABEL K., DLS (Columbia). Associate Professor Emerita, 1985, 2007.
BURTON, JOHN H., BA, MA. Assistant Professor Emeritus of Journalism, 1955, 1988.
DEAVER, FRANK, BA, MA, PhD. Professor Emeritus of Journalism, 1969, 1996.
ELEBASH, CAMILLE, BA, MA. Professor Emerita of Advertising and Public Relations, 1974, 1990.
HARTSOOK, RICHARD M., BA, MA. Associate Professor Emeritus of Telecommunication and Film, 1957, 1995.
MALINCONICO, S. MICHAEL, MLS (Columbia). Professor Emeritus, 1989, 2007.
MELSON, WILLIAM H., BA, MAC, PhD (North Carolina). Professor Emeritus of Advertising and Public Relations, 1976, 1992.
MULLINS, EDWARD, BA (Alabama), MA (Ohio State), PhD (North Carolina). Professor Emeritus, 1977, 2007.
PERRY, DAVID, BS, MA (Florida), PhD (Wisconsin-Madison). Associate Professor Emeritus, 1983, 1989.
POWELL, ARLYN SINCLAIR, BA, MA. Associate Professor Emeritus of Advertising and Public Relations, 1965, 1980.
ROCHE, BRUCE, BJ, MJ, PhD. Associate Professor Emeritus of Advertising and Public Relations, 1972, 1994.
ZILLMANN, DOLF. PhD. Professor Emeritus of Telecommunication and Film, 1989, 2001.

Institute for Communication and Information Research

EVANS, WILLIAM, BA (Rutgers), MA, PhD (Temple). Director, 2002.

Center for Public Television and Radio

BROCK, ELIZABETH, BS (Maine), MBA (Washington). Director, 2004.

PUBLIC TELEVISION

BAUGHN, DAVID. Director of Engineering and Technical Services, 1980, 1989.
CAMMERON, DWIGHT D., BA (Alabama-Birmingham), MA (Alabama). Director of Programming, 1984, 2003.
DEAL, BRUCE. Manager, Area Computing, 1998.
EIFLER, AMY, BA (Alabama). Assistant Director, Media Solutions, 1999.
HOLLOWAY, TAMMY, BA (Stillman College). Assistant Director of Business Operations, 2001, 2002.
LETCHER, JOHN M., BA, MA (Alabama). Production Manager, 1974, 1979.

ALABAMA PUBLIC RADIO

DUFF, DAVID, BA (Ambassador College), MA (Alabama). Music Director, 1996.
DUGGINS, PATRICK, BA (Central Florida), News Director, 2009
HENSLEE, KATHY, BA (Sewanee), Development Director, 1992, 2009.

COLLEGE OF COMMUNITY HEALTH SCIENCES

OBJECTIVES

The primary responsibility of the educational programs of the College of Community Health Sciences is to contribute to the improvement of health care in Alabama, emphasizing small towns and rural areas. The programs of the College are designed to increase the accessibility and availability of health care and to improve its quality.

The College of Community Health Sciences is charged with the responsibility of

- providing the last two years of clinical training for a portion of the medical students enrolled in The University of Alabama School of Medicine
- operating a family practice residency program based in Tuscaloosa
- making expertise in the medical and health sciences available to existing educational programs on campus, at both the undergraduate and graduate levels
- working with The University of Alabama School of Medicine to integrate the programs and operations of the medical program with the nonmedical aspects of health care delivery
- providing training sites and internships for students in social work, nursing, health care management, pharmacy, clinical dietetics, and health education

The College of Community Health Sciences is a community-based campus of The University of Alabama School of Medicine providing an additional site for the training of medical students during the clinical years. All medical students complete phase I of the medical training program on the Birmingham campus. Upon completion of phases II and III (the third and fourth years of clinical training) through any of the three campus systems, a student is awarded the doctor of medicine (MD) degree from The University of Alabama School of Medicine.

A major education program of the College entails providing the last two years of clinical training for a portion of the medical students enrolled at The University of Alabama School of Medicine. The College's resources are used to contribute to the education of the "undifferentiated physician," one who is competent at the basic level in all the traditional clinical disciplines and whose education is enriched by an orientation toward and skill in primary care and community medicine.

Each medical student who receives part or all of the required clinical training in Tuscaloosa is enrolled in and receives the MD degree from The University of Alabama School of Medicine. Thus, clinical clerkships and electives must meet or exceed the minimum standards set by the appropriate faculty committees of The University of Alabama School of Medicine.

The College's Family Practice Residency Program was approved in September 1973, and the first resident was accepted in January 1974. The College is committed to producing family physicians capable of providing continuing, comprehensive, family-centered care for their patients. Through the educational programs of its family practice residency, the College fosters the knowledge, attitudes, and skills necessary to create outstanding physicians who will deliver high-quality patient care. This key mission has the resources and support of the entire College dedicated to its accomplishment.

Initiatives have been developed to further enhance opportunities for the College to fulfill its mission of increasing accessibility, availability, and quality of health care to Alabama's citizens.

The Rural Health Scholars Program was created to give high-school students from rural backgrounds who are interested in becoming health professionals a head start in the college preparation they will need for admission to all health professional schools.

The Rural Medical Scholars Program was created to prepare 10 outstanding rural scholars each year for family medicine or primary care practice in Alabama. Scholars enroll in preparatory courses at UA and, upon completion of their studies, must meet requirements for admission to medical school. Students matriculate two years at UAB for the basic medical sciences component of their curricula and return to Tuscaloosa to CCHS for the clinical clerkship years, where they will be involved in special medical experiences that include rural preceptorships. The following certificate program is offered for Rural Medical Scholars only. For more information

regarding this program, please contact Dr. James Leeper, Professor and Director of Educational Programs, Department of Community and Rural Medicine, (205) 348-1355, jleeper@cchs.ua.edu.

CERTIFICATE OF RURAL COMMUNITY HEALTH

Background

There continues to be a shortage of physicians and other health care providers in many parts of rural Alabama. Research suggests that people who grow up in rural areas are much more likely than others to return to rural areas to practice medicine. In 1996, The University of Alabama School of Medicine (UASOM), through its Tuscaloosa campus (College of Community Health Sciences [CCHS]), instituted the Rural Medical Scholars Program (RMSP). This is an alternative pathway for rural Alabama students to prepare themselves to be primary care physicians in rural parts of the state.

The RMSP, a five-year program that leads to a medical degree (M.D.), has a separate admissions process. As part of the RMSP, students develop camaraderie with fellow students and form a support network with rural health professionals. To begin developing this important support system, the Rural Medical Scholars spend the academic year prior to entry into medical school involved in a basic rural health curriculum on the Tuscaloosa campus. Some of these students are college seniors pursuing a bachelor's degree at The University of Alabama (UA) and some already have this degree. Following successful completion of this pre-matriculation experience, the path of medical education continues with basic sciences courses at the UASOM–Birmingham campus for two years and clinical work at the UASOM–Tuscaloosa campus for two years.

The RMSP has developed its own set of courses, sometimes in collaboration with other Colleges at UA, which meets the needs of Rural Medical Scholars. This set of courses is designed to meet the needs of both undergraduate and graduate students. Undergraduate students will still meet the requirements for graduation. Students with special needs will still take appropriate courses. The Certificate of Rural Community Health will provide recognition to all of these students for the work they do in a CCHS core set of five courses.

Certificate Program Objectives

1. Provide students with the basic tools and fund of knowledge to be able to investigate rural health issues and to determine solutions to rural health problems.
2. Create a support network among students, rural physicians, other rural health and agricultural professionals, and rural residents.
3. Keep students from rural Alabama connected with their rural roots to increase the probability that they will return as rural health practitioners.

Completion Requirements

The Certificate requires successful (B or better in each course) completion of 15 credit hours in five courses (3 hours each). These courses are:

CHS 400/500/HHE 500 – Rural Environmental and Occupational Health

Introduces basics of rural environmental and occupational health. Students acquire knowledge of biological, chemical, physical, safety and ergonomic health hazards common to the rural South. Safety regulations and preventive measures are explored where applicable.

CHS 420/520/HHE 521 – Epidemiology

Acquaints students with basic epidemiological methods and principles. Emphasis is on study design and sources of error. The investigation of disease etiology and risk factors are the focus of this course.

CHS 422/522 – Community Clinical Process I

Explores the roles and responsibilities of a rural primary care physician as they address the health and health care needs of individuals, families and communities. Communication basics and interviewing skills are

explored and practiced. Health care practice issues such as physician/patient relationships, confidentiality and HIPPA Guidelines, and ethics in medicine are presented. In addition, basic clinical assessment skills/techniques, including a comprehensive health history and physical exam are introduced. Fieldwork includes shadowing primary care physicians, community interviews, health promotion activities and rural industry tours.

CHS 425/525/HHE 526 – Biostatistics

Introduces basic statistical concepts and procedures in health-related research, including descriptive statistics, probability, parametric procedures (t-tests, analysis of variance, correlation, regression), and nonparametric procedures (chi-square tests and ranking procedures). Explores select data sets related to rural community issues through the application of learned procedures and the production of research reports.

HCM 473/573 – Survey of Issues in Health Care Management

Explores current issues facing the health care industry. Issues are analyzed and evaluated regarding health care sectors involved, level of importance and possible solutions/outcomes, as well as stakeholder demands. Students are expected to discuss and support analysis of health care issues.

CCHS COURSES FOR UNIVERSITY OF ALABAMA UNDERGRADUATE AND GRADUATE STUDENTS

In addition to its medical education programs, the College of Community Health Sciences offers courses at both the undergraduate and graduate levels for students pursuing degrees at The University of Alabama. Coursework at the graduate level represents opportunities for graduate students to undertake study in some area of medicine or the health sciences that relates to their formal course of study, thereby providing a means for broadening and enriching their graduate work by relating it to health, health care, and the health care delivery system.

COLLEGE OF COMMUNITY HEALTH SCIENCES

ADMINISTRATIVE OFFICERS

MARSH, E. EUGENE, III, MD, Dean, College of Community Health Sciences, and Associate Dean, University of Alabama School of Medicine, Tuscaloosa Campus.
ALEXANDER, CHELLEY K., MD, Assistant Dean for Graduate Medical Education.
COCKRUM, ELIZABETH L., MD, Associate Dean for Clinical Affairs.
EVANS, ASHLEY, MD, Assistant Dean for Undergraduate Medical Education.
HIGGINBOTHAM, JOHN C., PhD, MPH, Associate Dean for Research and Health Policy.
ARENDALE, ALLISON H., Director of Financial Affairs.
MAXWELL, JOHN B., Jr., Chief Administrative Officer and Director of the University of Alabama Student Health Center.
MURPHY, PAT A., Registrar/TERM Director.
TAYLOR, MICHAELA A., MD, Assistant Dean for Information Technology.
ULZEN, THADDEUS P., Associate Dean for Academic Affairs.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to the title listed.

ALEXANDER, CHELLEY K., BA (Davidson College), MD (Alabama). Assistant Director, Family Practice Residency Program, and Assistant Professor, Department of Family Medicine, 2001.
ALLEN, KATY M., BA (Sara Lawrence College), MLIS (The University of Alabama), Assistant Professor and Technical Services/Systems Librarian, 2005.
ARNOLD, SCOTT, B.Ch.E (Georgia Institute of Technology), MD (University of Alabama School of Medicine), Associate Professor, Department of Internal Medicine, 2006
ARNOLD, SUSAN, BS (Alabama) MD (University of Alabama School of Medicine), Assistant Professor, Department of Psychiatry and Behavioral Medicine, 2007
AVERY, DANIEL M., BS (Alabama), MD (Alabama). Assistant Professor, Department of Obstetrics and Gynecology, 2003.
BLUM, ALAN M., BA (Amherst), MD (Emory). Gerald Leon Wallace Endowed Chair and Professor, Department of Family Medicine, 1999.
BRYANT, DAWN, BS (Alabama), MD (University of Alabama School of Medicine), Assistant Professor, Department of Internal Medicine-Hospitalist, 2007
BURGESS, KAREN B., BS, MD (Alabama). Assistant Professor, 2001.
COCKRUM, ELIZABETH L., BS, MD (Alabama). Associate Professor, Department of Pediatrics, 1989, 1995.
COPELAND, STEVE, BS (Alabama), MD (South Alabama), Assistant Professor, Department of Internal Medicine-Hospitalist, 2008
DALY, SANDRA, BS (Florida) MD (University of South Florida College of Medicine), Assistant Professor, Department of Internal Medicine, 2008
EVANS, ASHLEY, BS, MD (Alabama). Assistant Professor, Department of Pediatrics, 1994.
FOSTER, PAMELA P., BS (Xavier University) MS (Meharry College) MD (Meharry College) MPH (Columbia University), Assistant Professor, Department of Community and Rural Medicine, 2006
FULGHAM, SCOTT, BS, MD (Alabama), Assistant Professor, Department of Internal Medicine, 2005
GARNER, MARGARET P., BS (Georgia Southern), MS, RD (Tennessee). Assistant Professor, Department of Family Medicine, 1979.
GIGGIE, MARISA, BA (Smith College), MPaff (University of Texas at Austin), MD (Medical College of Pennsylvania/Hahnemann School of Medicine), Assistant Professor. Department of Psychiatry and Behavioral Medicine, 2009
GRAETTINGER, KRISTINE R., BS (Wisconsin), MS (Northwestern), MD (University of Alabama School of Medicine), Assistant Professor, Department of Obstetrics and Gynecology, 2009
GRESHAM, CATHY L., BS (Samford), MD (Alabama). Director, Medical Student Affairs, and Associate Professor, Department of Internal Medicine, 1991, 2000.
GUIN, SUSAN M., BS (Alabama), MS (Alabama-Birmingham). Instructor, Department of Community and Rural Medicine, 2001.
HALL, WILLIAM M., BS (The University of Alabama) MD (University of Alabama School of Medicine), Assistant Professor, Department of Internal Medicine-Hospitalist, 2009
HARDER, NATASHA, BS (University of North Alabama), MD (University of Tennessee College of Medicine), Assistant Professor, Department of Family Medicine, 2008
HARRELL, REGINA, BS (Vanderbilt College), MD (University of Alabama School of Medicine), Assistant Professor, Department of Family Medicine, 2006
HIGGINBOTHAM, JOHN C., BS (Alabama), MPH (Alabama-Birmingham), PhD (Texas). Director, Institute for Rural Health Research, and Associate Professor, Department of Community and Rural Medicine, 1999.
HILLMAN, KIMBERLY P., BS (Alabama), MD (University of Alabama School of Medicine), Assistant Professor, 2005
HONEA, NEIL, BS (Alabama-Birmingham), MD (University of South Alabama), Assistant Professor, Department of Internal Medicine, 2008
HOOPER, DWIGHT E., BA (Maryland-Baltimore County), MD (Maryland), MBA (Kennesaw State). Assistant Professor, Department of Obstetrics and Gynecology, 2001
IRELAND, ROBERT B., JR., BS (United States Military Academy), MD (Mississippi). Associate Professor, Department of Family Medicine, 1991, 1998
JAIN, ARCHANA, MBBS (University of Delhi-India), Assistant Professor, Department of Internal Medicine-Hospitalist, 2006
JAIN, GUARAV, MBBS (University of Delhi-India), Assistant Professor, Department of Internal Medicine-Hospitalist, 2009
JONES, III, LEONARD W., BS (Alabama-Birmingham), MD (University of Alabama School of Medicine), Assistant Professor, Department of Internal Medicine, 2005
KUHAJDA, MELISSA C., BS (Illinois State), MA (Loyola University) MA PhD (Alabama), Assistant Professor, Department of Psychiatry and Behavioral Medicine, 2002
LEEPER, JAMES D., BA, MS, PhD (Iowa). Professor, Department of Community and Rural Medicine, 1977, 1988
LEHMAN, CHARLES B., BA (Vanderbilt), MD (Alabama). Assistant Professor, Department of Internal Medicine, 2003
LUCY, BENNIE, BS (Alabama-Birmingham) MD (University of Alabama School of Medicine), Assistant Professor, Department of Internal Medicine-Hospitalist, 2007
MARSH, E. Eugene, III, BS (Alabama), MD (South Alabama). Dean, Professor, Department of Internal Medicine, 1993, 2001, 2005
MAXWELL, ALAN J., BA (Northwestern), MD (Pittsburgh-Pennsylvania), Associate Professor, Department of Family Medicine, 2007
MCDONALD, JOHN, BS (Alabama), MD (University of Alabama School of Medicine), Assistant Professor, Department of Obstetrics and Gynecology, 2008
MCKNIGHT, JERRY T., BS (Union), MD (Tennessee). Associate Professor, Department of Family Medicine, 1990
MILLER, GEORGE P., BS (Alabama), MD (University of Louisville School of Medicine), Assistant Professor, Department of Internal Medicine, 2005
OWINGS, WILLIAM O., BS (Alabama), MD (Tulane). Interim Chair and Professor, Department of Family Medicine, 1996
PAISLEY, CAMERON, BS (Auburn), MD (South Alabama), Assistant Professor, Department of Internal Medicine-Hospitalist,
RALLS, MARTHA A., BS (Vanderbilt), Pharm D (Samford University McWhorter School of Pharmacy) MD (University of Alabama School of Medicine), MLIS (Alabama), Assistant Professor, 2006
REED, MARION D. BS (Samford), MD (University of Alabama School of Medicine). Assistant Professor, Department of Obstetrics and Gynecology, 2007
RUBIN, NANCY J., BS (New Hampshire), PsyD. (Denver). Associate Professor, Department of Psychiatry and Behavioral Medicine, 1990, 1999.
SHEPPARD, ROBERT A., BS (Alabama), MD (South Alabama). Associate Professor, Department of Internal Medicine, 2003.
SLAUGHTER, ROBERT, BA (Vanderbilt) MD (University of Alabama School of Medicine), Associate Professor, Department of Internal Medicine-Hospitalist, 2007

SMITH, ELIZABETH, BSN (Alabama), MSN, CRNP (Alabama-Birmingham), Instructor, Department of Pediatrics, 2009
STEWART, J. GRIER, BS (Davidson College), MD (University of Alabama School of Medicine), Assistant Professor, Department of Internal Medicine, 2008
SUNDAR, VIJAYA, BS, MD (India). Associate Professor, Department of Internal Medicine, 1992, 2001.
TAYLOR, HEATHER, BA (Alabama), MD (University of Alabama School of Medicine), 2007
TUCKER, MELONIE, BA (Athens State) MA (Alabama), Ph.D. (Alabama), Assistant Professor, Department of Pediatrics, 2007
TAYLOR, MICHAEL A., BS (Kentucky), MD (Louisville). Assistant to the Dean for Information Technology and Chair and Associate Professor, Department of Pediatrics, 1991, 1999, 2001
THOMAS, JERRILL K., BS (Auburn), MD (University of Alabama School of Medicine), Assistant Professor, 2005
TYLER, CYNTHIA, BA, MA, MSW (Alabama), Assistant Professor, Department of Psychiatry and Behavioral Medicine, 1998
ULZEN, THADDEUS, MBChB (University of Ghana Medical School). Professor, 2005
VAUGHN, ROSS, BS (Alabama-Birmingham), MD (University of Alabama School of Medicine), Assistant Professor, Department of Internal Medicine, 2005
WAITS, JOHN, BA (Alabama), MD (University of Alabama School of Medicine). Associate Professor, Department of Family Medicine, 2005, 2009
WALLACE, JOSEPH C., BS, MD (Alabama). Chair and Associate Professor, Department of Surgery, 1995
WARREN, JOHN, BS (David Lipscomb University) MD (University of Alabama School of Medicine). Assistant Professor, Department of Internal Medicine-Hospitalist, 2009
WHEAT, JOHN R., BS, MD (Alabama), MPH (North Carolina). Professor, Department of Community and Rural Medicine, 1990, 2000, 2001
WILLIAMS, NELLE, BA (Morehead), MLS (Kentucky). Director and Assistant Professor, and Medical Information Services Librarian, Health Sciences Library, 1998, 1999, 2006
WILLIAMSON, LLOYDA B., BS (Oakwood College), MD (Meharry Medical College), Assistant Professor, 2005.
WINKLER, TIMOTHY W., BS (Oklahoma Christian), MD (Alabama). Associate Chair and Assistant Professor, Department of Surgery, 1995
YERBY, LEA, BS (Belmont), MS (Alabama), Ph.D. (Alabama and Alabama-Birmingham), Assistant Professor, Department of Community and Rural Medicine, 2008

Emeriti

BAUMHOVER, LORIN A., BA (Nebraska), MS, PhD (Colorado). Professor Emeritus of Behavioral and Community Medicine, 1971, 1996.
COGGINS, WILMER J., MD Dean Emeritus of the College of Community Health Sciences and Professor Emeritus of Internal Medicine, 1981, 1991.
DeSHAZO, WILLIAM F., III, BS, MD, Professor Emeritus of Family Medicine, 1972, 1988.
DOUGHTY, BARBARA P., MLS, Associate Professor Emerita, Health Sciences Library, 1974, 1994.
FICKEN, ROLAND P., AB (Phillips), MA, PhD (Kentucky). Dean Emeritus of the College of Community Health Sciences and Associate Professor Emeritus of Behavioral and Community Medicine, 1974, 1996.
GASKINS, SAMUEL E., BS (Cornell), MD (Medical College of Virginia). Director Emeritus, Family Practice Residency Program, and Associate Professor Emeritus of Family Medicine, 1979, 2005.
HEFELFINGER, DAVID C., BA, MD (North Carolina). Chair and Professor Emeritus Department of Pediatrics, 1973, 2000.
LUMPKIN, T. RILEY, MD Professor Emeritus of Family Medicine, 1974, 1991.
MOZLEY, PAUL D., BA, MD (Alabama). Professor and Chair Emeritus, Department of Obstetrics and Gynecology, 1984, 1999.
PIERONI, ROBERT E., BS (Boston), MD (Pennsylvania). Professor Emeritus of Internal Medicine and Family Medicine, 1974, 2005.

PHILP, ELIZABETH B., MD (Edinburgh, Scotland). Professor Emerita of Family Medicine, 1992, 1999.
RAND, ELIZABETH H., BA (Smith), MA (New York), MD (Albert Einstein College of Medicine). Chair and Professor Emerita, Department of Psychiatry and Behavioral Medicine, 1985, 2005.
RUSSELL, LISA R., BS, MLS (Alabama). Associate Professor Emerita, Health Sciences Library, 1983, 1999.
SNYDER, ARTHUR F., BA, MD Professor Emeritus of Surgery, 1989, 1995.
WINTERNITZ, WILLIAM W., AB (Dartmouth), MD (Johns Hopkins). Professor Emeritus of Internal Medicine, 1977, 1997.

COLLEGE OF EDUCATION

HISTORY AND OBJECTIVES

The University of Alabama long has been concerned with programs for the preparation of public school personnel. In 1844, only 13 years after the University's establishment in 1831, a Normal Department was provided for those who wished to prepare for teaching careers. By 1872, the Normal Department had become the Normal School. By 1899, the trustees had replaced the Normal School with the School of Pedagogy and Psychology, which in 1902 became the School of Philosophy and Education. In 1908, the school was reorganized as the Department of Education; one year later, further organizational changes resulted in the name being changed to the School of Education. The present College of Education was established in 1928. Until 1924, the University's offerings in teacher education were almost entirely limited to undergraduate programs for elementary and high-school teachers. Graduate work in school administration was added in 1924, and all programs—undergraduate and graduate—were greatly expanded during 1927–28. Doctoral programs were authorized in 1951.

The College of Education is the division of The University of Alabama that has the responsibility for administering all professional programs and courses designed for the preparation of teachers and other educational professionals. Experiences in academic programs are devoted to developing individuals' understanding of knowledge construction, learning, pedagogy, and responsible professional practice in the contexts of education. The University of Alabama's College of Education seeks to prepare professionals who value and demonstrate reflective practice and ethical decision making through respecting diversity, honoring difference, and promoting social justice.

PROFESSIONAL LICENSURE (CERTIFICATION)

The curricula offered by the College of Education are designed to prepare teachers and school administrative and supervisory officials for the appropriate certificates. Students graduating with a bachelor of science degree in education who have successfully completed a certification program are eligible to apply for the Alabama Class B professional certificate. Certification programs are available for the Alabama Class A and Class AA professional certificates for college and university graduates who are holders of bachelor's and higher degrees. The College of Education, in accordance with the regulations of the Alabama State Board of Education, also provides courses for persons who hold expired certificates and wish to reinstate them.

Students planning to teach outside the state of Alabama are held personally responsible for knowledge of professional licensure requirements in those states. Such students should inform their advisors of their intentions, as the advisors may be of assistance in ensuring compliance with other states' requirements.

DEGREES AND PROGRAMS OFFERED

The College of Education offers undergraduate programs leading to the bachelor of science degree in education. The College offers the following teacher education programs (NOTE: "P" refers to "pre-school" and "K" to "kindergarten"):

- Elementary education (K–6)
- Foreign language (6–12 or P–12), with concentrations in French, German, Latin, and Spanish
- Music education (P–12), with concentrations in instrumental or choral music
- Physical education (P–12)
- Secondary education (6–12), with majors in English language arts (comprehensive), French, German, Latin, mathematics (comprehensive), science (comprehensive), social science (comprehensive), and Spanish
- Special education, with K–6 and 6–12 concentrations in collaborative education, multiple abilities program (K–6) with dual certification in elementary and collaborative, and early childhood with dual certification in early childhood special education (birth through age 8) and early childhood education (pre-K through 3rd grade).

A concentration leading to the bachelor's degree is also offered in exercise and sport science, but this concentration does not lead to teacher certification.

A student enrolled in the Graduate School may be admitted to one of the College of Education's alternative (nontraditional, fifth-year) certification programs in order to complete a master's degree and obtain initial licensure (Class A) in a broad range of teaching fields.

ADMISSION AND RETENTION REQUIREMENTS

General Regulations

Student responsibility. College of Education students are expected to register for appropriate courses necessary to make reasonable progress toward completing program requirements by the expected date of graduation. Students must familiarize themselves with the requirements contained in this catalog.

Local mailing and e-mail addresses. Students are expected to maintain mailing addresses and e-mail addresses at which communications from the College of Education will, with reasonable certainty, reach them. The University of Alabama utilizes myBama as the official means of recording address information. It is the student's responsibility to update addresses, as needed, through the Self-Service component of myBama.

Class hour load. The normal class hour load for College of Education students is 15–17 hours each semester. Seniors who need 18 hours during the final semester to complete degree requirements may register for those hours without special permission. In all other cases, each student must have at least a "B" average to receive permission from the College's Office of Student Services to register for more than 18 hours. The maximum class hour load with a "B" average permit is 21 hours. During the summer/Interim session, the maximum load without a "B" average permit is 17 hours (7 hours per term/3 hours during the Interim). A student with a "B" average permit may carry a maximum of 18 hours (9 hours during one summer term, 6 hours during the other summer term, and 3 hours during the Interim term).

Class attendance. Students are expected to pursue successful completion of all courses for which they are registered, including regular class attendance. The dean may withdraw a student from courses and/or may assign failing grades at any time during a semester when excessive absences have accumulated or when the student is disenrolled from a course.

Academic bankruptcy. The College of Education observes the general University policies governing academic bankruptcy and also maintains a committee to review all petitions for academic bankruptcy. The petitioning process begins in the College's Office of Student Services and Certification.

Auditing courses. With approval from the dean of the College, an education student may audit one course. No tests or final examinations may be taken when a course is audited. An audited course is counted as if it were a credit course in the determination of the class hour load. Normally, an audited course may not be repeated for credit.

Duplicate credit. A course that substantially duplicates the content of a course for which credit has already been earned may not count toward degree requirements.

Repeating courses for higher grades. With written permission from the dean, education students may repeat certain courses in which a grade of "D" was received. The dean's written permission must be filed with the registrar of the College of Education. When the cumulative grade point average is computed, each enrollment in the course will count as hours attempted. However, only the most recent enrollment may count toward degree requirements.

Transfer between divisions. Before transferring into the College of Education from another division of The University of Alabama, a student must attend an orientation session sponsored by the College of Education Office of Student Services and Certification.

Transfer equivalencies. Professional education courses transferred from other institutions may not be used to meet requirements in a state-approved program of study within the College of Education. Courses may be utilized as electives.

Second bachelor's degree. If a student wishes to earn a second bachelor's degree in the College of Education, a minimum of 32 semester hours of additional credit must be earned in residence in the College of Education. These 32 hours must be over and above all credit earned for the previous degree. All quantitative and qualitative requirements for the second degree program must be met in full, according to standards in effect on the date of enrollment in the second program.

GENERAL DEGREE REQUIREMENTS

The College of Education offers undergraduate programs leading to the bachelor of science in education or the bachelor of science degree. These programs require the completion of a minimum of 120 semester hours in prescribed and elective courses, as set forth in this catalog (most programs require the completion of more than 120 hours). Graduates will also have met the prescribed minimum standards of scholarship.

A minimum of 32 semester hours, including 9 of the last 18 hours required for a degree, must be earned in residence at The University of Alabama as an enrolled student in the College of Education.

If a student does not complete requirements for the undergraduate degree within a period of seven years from the date of admission, the College of Education will modify the student's program to bring it into compliance with current degree and certification requirements. In addition, a student in a teacher education program must complete that program's requirements within four years from the date of formal admission to the program, or he or she must reapply for admission.

Upon re-entering, any student with a break in his or her enrollment at The University of Alabama (fall or spring semesters) will be placed in the program required of newly admitted students. Exceptions may be made by personnel in the Office of Student Services and Certification.

Because of the number of educational options available to students in the College, sample programs of study for the various education majors cannot be provided here. Instead, detailed program outlines are available from academic advisors in the various program offices. In general, students take 100-level courses during the first year of college, 200-level courses during the second year, and 300- and 400-level courses during the third and fourth years.

Each undergraduate program contains a group of courses classified as general studies. These courses must be taken in the proper prescribed sequence during the freshman and sophomore years, until they are completed. Required studies in English are part of the general studies requirement; a student must enroll each semester in the prescribed composition and literature courses, until the English requirement is completed.

Upper and Lower Divisions

Students enrolling in a teacher education program (a program leading to Alabama Class B certification) enter the upper division of the College of Education at the time of their admission to a Teacher Education Program (TEP).

Admission to a Teacher Education Program (TEP)

Students must be formally admitted to a TEP. Applications are available through the Office of Student Services located at 104 Carmichael Hall. Students who meet the following criteria may apply for admission to the teacher certification program in their area of study. However, meeting the minimum criteria does not guarantee admission to TEP.

1. Alabama Prospective Teacher Testing Program (APTTP). The basic skills portion of the APTTP must be taken prior to TEP. Students must have a passing score for all three sections of the test (reading, writing, and mathematics). Students should check with personnel in 104 Carmichael Hall to obtain the latest information, including test dates and registration Web site.
2. GPA requirements. A grade point average of 2.75 must be met and maintained for admission. Transfer students must have the required GPA on all coursework taken at this institution as well as overall coursework

- (UA and transfer work). Exception: physical education with a 2.5 GPA.
3. EN 101 and EN 102 or EN 103 with credit for EN 101. Students must have a grade of a "C" or higher in the coursework.
 4. BEP 305 Educational Psychology or BEF 360 or BEP 360. Students must have a grade of a "C" or higher in the coursework.
 5. Speech requirement. Students must have a grade of a "C" or higher in an approved public-speaking course.
 6. Hour requirements. Students must successfully complete at least 60 semester hours, including at least 41 hours of general studies. Students must not have exceeded 120 semester hours.
 7. Pre-professional courses. Students must successfully complete the pre-professional lab experience in their field of study with a grade of at least a "C". Students should check with an academic advisor for the specific departmental course with the lab experience.
 8. Fingerprinting. The Alabama State Department of Education and the College of Education require all students to be fingerprinted prior to admission to TEP. Fingerprinting will be required during the semester of the pre-professional course, and background clearance must be obtained prior to clinical placements in the schools.
 9. Writing requirements. Students should check with program advisors and/or personnel in the Office of Student Services and Certification. Students seeking admission to a TEP in elementary education will be assessed a fee for taking a required writing assessment.
 10. Interview. Each candidate for admission must successfully complete an interview with at least two faculty members. Speaking skills and knowledge and abilities based on previous coursework will be among the attributes assessed in the interview. The interview evaluation will become part of the application to a TEP.
 11. Signatures. Appropriate faculty and administrative signatures are required once all criteria have been met.

Admission to a TEP is competitive and meeting standard criteria does not guarantee admission. Those who meet standard criteria are guaranteed consideration for admission to a teacher preparation program. Admission will be based on evaluations of the applications to identify those applicants who are best qualified and who show strong likelihood of success in their chosen areas. The evaluations will reveal the relative strengths and weaknesses in each applicant's credentials in light of the areas in which the applicant wishes to teach and the applicant's understanding of, and commitment to, teaching as a profession, as well as oral skills, mature judgment, and the demeanor necessary to become successful as a teacher. Any applicable test score, or subscore, and grades in previous courses should reflect a strong record in the major area of study. A student's entire application will be evaluated by appropriate members of the faculty who will make a recommendation to the dean. The dean will make the final decision.

Individuals who hold college degrees and wish to complete certification programs to teach in the public schools or to complete a TEP in order to qualify for certain graduate programs must meet the admission criteria and must follow all application procedures. Students should check with academic advisors in the office of Student Services for specific departmental TEP admissions requirements.

Retention in the College of Education (Certification Programs)

To continue to be eligible for enrollment in the upper division of the College of Education, a student must successfully complete any remaining courses in the teaching field(s) or major, and, for certification programs, the professional education courses, including successful clinical placements. Unless otherwise indicated for a specific program, the GPA in the teaching field—and, if transfer work, the overall GPA—must remain at least 2.75. In professional education courses, the GPA must be at least 2.75, with no grade less than "C." For students in non-certification programs, required minimum GPAs vary from program to program. All students should be aware of and monitor their GPAs and should project when they will be able to enroll in required courses. All students are expected to become familiar with the regulations discussed in "Student Records and General Academic Policies."

Examinations

Individuals who apply to the Alabama Department of Education for initial Alabama professional educator certificates or alternative certificates must meet the requirements of the Alabama Prospective Teacher Testing

Program (APTP) as a precondition for certification. The APTP consists of basic skills assessments and subject assessments. The basic skills assessments of the APTP consist of the applied mathematics, reading for information, and writing assessments. Passing scores in all three areas are required of candidates prior to admission to a teacher education program.

The subject assessments required in the APTP consist of selected tests from the Praxis II. Each candidate must obtain a passing score in the appropriate content field on the Praxis II prior to internship. Candidates should see their advisors for the appropriate test code prior to registering for Praxis II. Information regarding test dates, test codes, and testing sites may be obtained from the Office of Student Services, 104 Carmichael Hall.

Each student in a certification program must also show proof of mastery of all Quality Teaching Standards (QTS), Professional Standards, and Content Standards prior to program completion. An Individualized Standards Assessment Report (ISAR) for each student will be reviewed and evaluated at various checkpoints to ensure mastery of standards. Upon program completion, the final ISAR will be evaluated prior to graduation and recommendation for certification.

Clinical Placements

The majority of upper-division education courses require clinical placements in the schools. At a minimum, each student shall have participated in 150 clock hours prior to the internship. Ninety of these 150 hours shall be in increments of at least three hours each. The majority of field experiences must occur in P-12 schools.

All clinical placements in the College of Education are coordinated through the Office of Clinical Experiences. These placements are in the greater Tuscaloosa area in order to facilitate supervision of students. If an appropriate placement cannot be secured in the Tuscaloosa area, recommendations will be made for an alternate placement by the department head.

Professional Liability

Students enrolled in College of Education courses that require a clinical placement are required to provide proof of professional liability insurance before being allowed to participate in a clinical placement. Professional liability insurance may be purchased through an independent insurer or is available to students who are members of the Student Alabama Education Association (SAEA), the Council for Exceptional Children (SCEC), or Collegiate Music Educators National Conference (CMENC). Further information and membership applications may be obtained from the Office of Clinical Experiences.

Internship Requirements

After successfully completing all required coursework, each student is screened for placement in an internship. The teaching internship (formerly called student teaching) is one of the most important experiences a College of Education student has. It is generally regarded as the culminating activity of one's preparation to become a teacher. At The University of Alabama, the internship is a full-semester, full-time assignment and must be taken in residence.

Both undergraduate and alternative (nontraditional, fifth-year) students must file internship applications with the Office of Clinical Experiences in 101 Graves Hall during the semester preceding the semester of the planned internships. The application process begins by attending a mandatory application session, which is held at 4:00 p.m. in 118 Graves Hall on the first Wednesday in October for spring-semester interns and the first Wednesday in March for fall-semester interns.

A student may apply to enroll for an internship if the following criteria have been met:

1. The student must have been admitted to the teacher education program or an alternative (nontraditional, fifth-year) program. Internship applications will not be processed until admission is verified.
2. The student must have completed all courses in the major or minors prior to the internship unless otherwise indicated by the education department.
3. Unless otherwise indicated, the student must have earned a minimum grade point average of 2.75, both for all University of Alabama courses attempted and for all University of Alabama courses and transfer courses combined.
4. Unless otherwise indicated, the student must have earned a

minimum grade point average of 2.75 in each major, both for University of Alabama courses in each major and for combined University of Alabama courses and transfer courses in each major.

5. The student must have earned a minimum grade point average of 2.75 for professional education coursework, with no grade below a "C" in any professional education coursework.

6. The student must have completed all methods courses and appropriate professional coursework with grades of "C" or higher.

7. The student must have removed from the transcript any grade of incomplete ("I") recorded in required courses; grades of incomplete are treated as grades of "F."

8. The student must have obtained a passing score on the Praxis II Subject Assessment test in the appropriate content field.

9. The student must show mastery of required standards in all courses completed prior to internship, as indicated on the Individualized Standards Assessment Report.

Registration for internship credit hours. Undergraduate students are required to register for the number of internship credit hours specified by their programs. In some programs, an undergraduate student may be allowed to choose a 9-hour registration or a 12-hour registration; course requirements are the same whether 9 hours or 12 hours are taken. Students in programs requiring two different internship placements are required to register for two different sections of internship. A student enrolled for an internship must not expect to be enrolled in other courses while interning unless otherwise indicated by the department.

Policy on Internship Placements

All internship placements are coordinated by the College of Education Office of Clinical Experiences. A placement site will be selected in a manner to ensure the quality of the internship experience and of the supervision provided by the cooperating teacher. All internship placements (except for music education) are in the greater Tuscaloosa area in order to facilitate supervision of students by University of Alabama faculty or other designees of the department heads. Placement outside the greater Tuscaloosa area is made only if the Office of Clinical Experiences and/or a department head determine(s) that appropriate local placement is unavailable.

A student may apply for an overseas internship if he or she meets certain criteria and if appropriate placement can be coordinated by the Consortium for Overseas Student Teaching (COST) and/or The University of Alabama. Applications for overseas internships are taken during January for placements for the next fall semester and in June for placements the succeeding spring semester. Contact the Office of Clinical Experiences in 101 Graves Hall for additional information.

Internship Assignments

Majors who enroll for internships in collaborative teacher education, early childhood special education, elementary education, physical education, English as a second language, foreign language education (P-12), and music education should expect split assignments. Secondary education students who have comprehensive majors may receive a single internship assignment or a split assignment. A secondary education student who has two secondary education majors receives a split assignment, one-half in each of the two majors. The internship for the multiple abilities program (MAP) requires the student to complete an elementary education placement and a special education placement during two different semesters.

Application for Certification

Any University student who plans to teach in Alabama after graduation must file the proper application form for a certificate. Forms are available and are filed in the Office of Student Services and Certification in 104 Carmichael Hall. Applications should be filed at least one semester in advance of graduation. A student who does not apply for professional licensure within 60 months after completing the state-approved program will be required to meet the current program. Students who plan to teach in other states must secure the proper professional licensure application forms from those states' departments of education. The associate dean for student services in the College of Education has been designated the teacher certification officer for the University. Students who need information about or assistance with certification should consult the associate dean for student services.

Teacher warranty. According to regulations mandated by the Alabama State Board of Education, the College of Education ensures that “a candidate’s competency to begin his or her professional role in schools is assessed prior to completion of the program and/or recommendation for certification” and establishes, publishes, and implements “policies to guarantee the success of individuals who complete its approved programs and are employed in their area(s) of specialization.” The College of Education provides “remediation at no cost to such individuals who are recommended . . . and are deemed to be unsatisfactory based on performance evaluations established by the State Board of Education and within two years after program completion.”

Required General Studies Courses

These general studies courses include most University of Alabama Core Curriculum requirements; however, the core curriculum writing requirement (the W courses) is not satisfied by these hours of general studies courses.

NOTE: Courses listed below reflect general options, but not all teaching fields are enhanced by every option, and some require additional coursework. Additional courses approved by the state of Alabama Articulation and General Studies Committee could be appropriate under the terms of the Statewide Articulation Reporting System (STARS). To avoid taking extra courses, each student should select, whenever possible, general studies courses that may be utilized in his or her teaching field or major. Please refer to notes below and to the specific teaching field(s) for more precise requirements.

I. WRITTEN COMPOSITION REQUIREMENT

EN 101 and EN 102 (FC)	6 hours
or EN 103 English Composition (FC)	3 hours

II. HUMANITIES AND FINE ARTS REQUIREMENT

Total hours	12 hours
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Literature

Complete at least one course from the following:

EN/WL 207 World Literature (L)	
EN/WL 208 World Literature (L)	
EN 205 English Literature I (L)	
EN 206 English Literature II (L)	
EN 209 American Literature I (L)	
EN 210 American Literature II (L)	
EN 215 Honors English Literature I (L)	
EN 216 Honors English Literature II (L)	
EN 219 Honors American Literature I (L)	
EN 220 Honors American Literature II (L)	3–6 hours

NOTE: Students should select courses from areas II and IV so that at least one 6-semester-hour sequence of either literature (e.g., English, American, or world) or history is presented.

Public Speaking*

COM 123 Public Speaking (HU)	
COM 210 Oral Interpretation (HU).....	3 hours

Fine Arts	3 hours
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ARH 151 Introduction to the Visual Arts (FA)	
ARH 252 Survey of Art I (FA)	
ARH 253 Survey of Art II (FA)	
ARH 254 Survey of Art III (FA)	
MUS 121 Introduction to Listening (FA)	
MUS 250 Music in World Cultures (FA)	
TCF 112 Motion Picture History and Criticism (FA)	
TH 114 Introduction to Theatre (FA)	

Additional course from area II	3 hours
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*A music education major may satisfy this requirement by earning a passing score on the Speech Proficiency Examination; however, appropriate hours in Area II must be met.

III-A. NATURAL SCIENCES REQUIREMENT

Total hours	8
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AEM 120 Aerospace Science for Educators (N)	
AY 101:102 Introduction to Astronomy (N)	
BSC 108 Introductory Biology for Non-Majors I (N)	
BSC 109 Introductory Biology for Non-Majors II (N)	
BSC 114:115 Principles of Biology I (N)	
BSC 116:117 Principles of Biology II (N)	
CH 101 General Chemistry I (N)	
CH 104 Introductory Chemistry (N)	
CH 107 Introductory Chemistry for Non-Majors I (N)	
GEO 101 The Dynamic Earth (N)	
GEO 102 The Earth through Time (N)	
GY 101 or GY 102 Principles of Physical Geography I or II (N)	
PH 101 General Physics I (N, MA)	
PH 115 Descriptive Physics for Non-Science Majors (N)	

Students in elementary education, the Multiple Abilities Program, and special education must complete 4 additional semester hours from N courses. It is suggested that students in elementary education choose AEM 120 or another advisor-approved, interdisciplinary science course.

III-B. MATHEMATICS REQUIREMENT

Total hours	3
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Any of the following courses:

MATH 110 Finite Mathematics (MA)	
MATH 112 Precalculus Algebra (MA)	
MATH 113 Precalculus Trigonometry (MA)	
MATH 115 Precalculus Algebra and Trigonometry (MA)	
MATH 121 Calculus and Its Applications (MA)	
MATH 125 Calculus I (MA)	
MATH 126 Calculus II (MA)	

Students in elementary education (K–6), the Multiple Abilities Program (K–6), and special education are required to complete additional work in mathematics. See notes under these teaching fields. Students preparing to teach general science, biology, chemistry, and physics need to meet specific MATH requirements. See notes under the various teaching fields.

IV. HISTORY AND SOCIAL AND BEHAVIORAL SCIENCES REQUIREMENT

Total hours	12
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At least one HY course:

HY 101 Western Civilization to 1648 (HI)	
HY 102 Western Civilization since 1648 (HI)	
HY 203 American Civilization to 1865 (HI)	
HY 204 American Civilization since 1865 (HI)	

NOTE: Students should select courses from areas II and IV so that at least one 6-semester-hour sequence of either literature or history (e.g., Western, American) is completed.

PY 101 Introduction to Psychology (see area V) (SB)	
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HD 101 Human Development (see area V) (SB)	
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ANT 100 Introduction to Anthropology (SB)	
ANT 102 Introduction to Cultural Anthropology (SB)	
ANT 103 Great Discoveries in Archaeology (SB)	
EC 110 Principles of Microeconomics (SB)	
EC 111 Principles of Macroeconomics (SB)	
GY 105 World Regional Geography (SB)	
GY 110 Principles of Human Geography (SB)	
PSC 101 Introduction to American Politics (SB)	
SOC 101 Introduction to Sociology (SB)	
SOC 202 Analysis of Social Problems (SB)	

V. GENERAL PREPROFESSIONAL, MAJOR, AND ELECTIVE COURSES

(Courses appropriate to the degree requirements and major of the individual student. Secondary and P-12 majors [except special education] should select courses appropriate to their majors. Additional, specific courses may be required for the various majors.) Students should consult an advisor for requirements in a major.

Educational psychology prerequisite requirement

PY 101 or HD 101 (may be taken as part of area IV requirements)

Foreign language/computer language requirement

(3–8 semester hours)

One of the following:

- Option 1: Satisfy the foreign language core requirement (FL) 3–8
- Option 2: Satisfy the computer science core requirement (C) 6

NOTE: Option 2 is not part of area V of the articulation agreement.

Students should consult an advisor for requirements in a major.

EDU 200 Orientation to Teacher Education 1

Required for all students in education seeking teacher certification general studies elective(s)

In some majors, additional courses may need to be taken to complete a total of 120 hours or to fulfill prerequisites for the required courses above. variable hours

CURRICULUM AND INSTRUCTION

Professor Miguel Mantero

Office: 201 Graves Hall

Department Head

E-mail: mmantero@ua.edu; campus: 348-1402

ELEMENTARY EDUCATION PROGRAMS (K–6) (CEE)

Associate Professor Diane Carver Sekeres

Office: 208-B Graves Hall

Program Coordinator

This department requires the completion of at least 120 semester hours for graduation as specified below and leads to the bachelor of science in education degree and the Alabama Class B (K–6) Professional Certificate. MUE 385 requires as a prerequisite either MUE 107 Basic Skills in Music (2 hours) or demonstrated equivalent skills by passing an exemption examination offered throughout the year by the Music Education Department, 261 Moody Music Bldg, (205) 348-6054. The undergraduate catalog is published at two-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheets, available from academic advisors and in 104 Carmichael Hall. Further information on recommended course sequences should also be obtained from 201 Graves Hall.

TEACHER EDUCATION PROGRAM (TEP) ADMISSION

REQUIREMENTS FOR ELEMENTARY EDUCATION MAJORS

Since the fall semester of 1996, there has been a competitive admission process for entering the elementary education professional semesters. There is a limitation on enrollment for these semesters. Meeting the minimum criteria for the teacher education program (TEP) does not guarantee admission to these professional semesters. See program for admission procedures.

The student must complete the TEP application form, available from personnel in 104 Carmichael Hall. The requirements are listed at the beginning of the College of Education section.

NOTE: The faculty reserves the right to make exceptions to the listed criteria based on individual circumstances. However, minimum Alabama State Department of Education requirements found elsewhere in this catalog must still be met.

Additional Requirements

- Each student must earn a grade of "C" or higher in all University core courses.
- Each student must successfully complete MUE 107 or a proficiency examination.

- Each student must have a "C" or higher in every professional studies and teaching field course. A student must successfully petition (the department) to retake any education course in which he or she earned less than a "C."
- Each student must select additional mathematics courses from the general studies list for a total of 12 semester hours of MA-designated courses. Recommended are MATH 208, MATH 209, MATH 210. (MATH 100 and BER 345 are not acceptable.)
- Each student must select an additional course from the general studies natural science requirements, for a total of at least 12 semester hours. Preferred are 4 semester hours in biological science and 8 semester hours in physical/interdisciplinary science.

Course	Hours
General Studies	60

Professional Studies and Teaching Field

The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in the professional studies and teaching field courses.

Professional Semester 1

Students must register for CEE 320, CRD 369, and MUE 385 simultaneously. BEF 362, BEP 305, and SPE 300 may be taken prior to Professional Semester 1. All required English coursework must have been completed.

Professional Studies

BEF 362 School, Culture, and Society	3
BEP 305 Educational Psychology	3
*CEE 320 Survey of Elementary Education	3
SPE 300 Survey of Special Education and Accommodation Strategies	3

Teaching Field

*CRD 369 Fundamentals of Reading Instruction (W)	3
*MUE 385 Teaching Music in the Elementary School	3

*Corequisites

NOTE: MUE 107 is a prerequisite to MUE 385; however, students with previous musical training may elect to demonstrate equivalent skills through testing. Arrangements for testing can be made by contacting the Music Education office at (205) 348-6054.

NOTE: After successful completion of CEE 320 and posting of grades, students should be ready to apply formally to the Teacher Education Program. Applications are available from Student Services located at 104 Carmichael Hall. Check "TEP" requirements for additional information. A student may not enroll in more than five professional studies courses before he or she has received unconditional admission to the TEP. All required mathematics coursework must be completed prior to Professional Semester 2.

Professional Semester 2

Students must register for the following 16 hours, which are taught in a block, simultaneously.

Professional Studies

BER 450 Assessment Practices in Classroom Learning	3
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Teaching Field

CEE 365 Literature for Children	3
CEE 370 Teaching Reading in the Elementary School (W)	3
CEE 380 Teaching Elementary Mathematics	3
CEE 495 Practicum	4

Professional Semester 3

After successful completion of Professional Semester 2, students must register for the following 16 hours, which are taught in a block, simultaneously.

NOTE: All required science and social science/humanities coursework must be completed prior to Professional Semester 3.

Teaching Field

CEE 304 Teaching Elementary School Science	3
CEE 366 Teaching the Social Sciences	3
CEE 478 Teaching Language Arts in the Elementary School (W).....	3
CEE 496 Senior Practicum.....	4
KIN 364 Physical Education for Elementary Schools.....	3

Professional Semester 4**Professional Studies**

CEE 401 Managing an Effective Classroom	3
CEE 497 Internship in Elementary Schools (K–6).....	9–12

NOTE: Elementary education students are required to complete two internship placements; therefore, students should enroll in equal hours of two sections of CEE 497. Students who need full-time status may enroll for 4.5 semester hours of each section.

Total: 122–125

EARLY CHILDHOOD (PRE-K THROUGH 3RD GRADE)**CERTIFICATION**

By completing additional requirements, a student fulfilling the requirements for elementary school (K–6) certification may be eligible to obtain early childhood certification. Admission to this program is highly competitive. Additional requirements of the early childhood certification program may be secured in 104 Carmichael Hall.

**MIDDLE-SCHOOL (4–8) ENDORSEMENT
ON ELEMENTARY (K–6) CERTIFICATE**

By completing additional requirements, a student fulfilling the requirements for elementary school (K–6) certification may also obtain middle-school certification. The additional requirements of the middle-school endorsement program may be secured in 104 Carmichael Hall.

**SECONDARY CURRICULUM, TEACHING, AND
LEARNING (6–12) (CSE)**

Associate Professor Lisa Scherff
Program Coordinator

Office: 204 Carmichael Hall

The programs in high-school/secondary education require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (6–12) Professional Certificate.

NOTE: Admission to this program is competitive, and meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. Each student will be given two opportunities to satisfactorily complete each of the following requirements: writing examination, admission interview, and APTTP (basic skills test). An individual may request from the program chairperson or his or her advisor information concerning summative data on the most recent previous admissions.

The undergraduate catalog is published at two-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheets, available from academic advisors and in 104 Carmichael Hall. Further information on recommended course sequences should also be obtained from 204 Graves Hall.

Course	Hours
General Studies	60

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree. See general studies requirements listed earlier in this section.

Courses from areas II, III, and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies

Students must earn grades of "C" or higher in each of the following professional studies courses. The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses. A

student may not enroll in more than the five identified professional studies courses prior to unconditional admission to TEP.

BEF/BEP 360 Social and Psychological Foundations of Education.....	3
BER 450 Assessment of Classroom Learning.....	3
CRD 412 Improving Reading in Secondary Schools (W).....	3
CSE 390 Instruction and Accommodation in Secondary Schools.....	3
CSE 493 Diversity Block Seminar.....	1
CSE 489 Clinical Experiences in Secondary Schools.....	3
CSE 497 Secondary School Internship.....	9–12
SPE 300 Survey of Special Education and Accommodation Strategies....	3

*Discipline-specific CSE methods course.....

*Students in these teaching fields take the following course(s). Depending upon teaching field(s) presented, more than one course may be required.	
Comprehensive science.....	CSE 486
Comprehensive social science.....	CSE 487
English language arts	CSE 479
Foreign language	CSE 480
Mathematics	CSE 483

*This is a methods course that is a prerequisite for the internship (formerly called student teaching). The student must be admitted to the teacher education program before this course is taken. Failure to be admitted on time will significantly delay the internship and graduation as well. (CSE 489, CRD 412, BER 450, and methods courses are taken concurrently.) Depending on the teaching field, a student may be required to take an additional CSE 489 and methods course.

Requirements for the Secondary Education (6–12) Teaching Fields

The University of Alabama GPA—and, if transfer work, the overall GPA—must, unless otherwise indicated, be at least 2.75 in these courses.

Teaching Field: (Comprehensive):**English Language Arts (6–12)**

Content major: English	60
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The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

Choose two courses from the following group (6 hours):

EN 206 English Literature II	3
EN 207 World Literature I.....	3
EN 208 World Literature II	3
EN 209 American Literature I	3
*EN 249 African-American Literature	3

*EN 249 does not meet the literature sequence for UA Core Curriculum.

Choose one course from the following group (3 hours):

EN 340 American Literature to 1900.....	3
EN 341 American Poetry to 1900.....	3
EN 342 American Fiction to 1900.....	3
EN 343 British Fiction to 1900.....	3
EN 345 Nonfiction in English.....	3
EN 347 English Literature during the Enlightenment.....	3
EN 348 Romantic Literature.....	3
EN 349 Victorian Literature.....	3

COM 101 Principles of Human Communication.....	3
COM 123 Public Speaking.....	3
CSE 455 Literature for Adolescents.....	3
CSE 469 Pedagogical Grammar.....	3
CSE 470 Teaching Writing.....	3
EN 205 English Literature I.....	3
EN 210 American Literature II.....	3
EN 300 Introduction to English Studies.....	3
EN 321 Linguistic Approaches to English Grammar.....	3
EN 333 Shakespeare.....	3
EN 411 Advanced Studies in Multicultural Literature.....	3
EN 300-level elective.....	3
EN 400-level elective.....	3
EN 400-level elective.....	3
JN 436 Teaching of Journalism or JN 200 Intro to Journalism.....	3
TH 113 Voice and Diction or TH 114 Introduction to Theatre.....	3
TH 245 Teaching Theatre: Performance or TH 246 Teaching Theatre: Play Production.....	3
Foreign language requirement.....	8

See general studies requirements listed earlier in this section.

Teaching Field: French (6–12)	36
The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.	
FR 201 Intermediate French I.....	3
FR 202 Intermediate French II	3
FR 321 French Studies I: Voices of France.....	3
FR 323 French Studies III: Contemporary France and Francophonie.....	3
FR 421 Advanced Conversation and Phonetics.....	3
Select two courses from the following group (6 hours):	
FR 361 Introduction to Romance Linguistics.....	3
FR 461 French Linguistics.....	3
FR 470 Undergraduate Seminar.....	3
FR 480 Special Topics.....	1–3
Select two courses from the following group (6 hours)	
FR 341 Survey of French Literature I	3
FR 351 Survey of French Literature II	3
FR 470 Undergraduate Seminar	3
FR 480 Special Topics.....	1–3
FR 331 French Civilization or FR 431 Contemporary Civilization	3
Advisor-approved FR electives	6
Additional advisor-approved electives may be necessary to meet the 120-hour degree requirement.	
To expand certification in this foreign language field to the P–12 level, students should complete the requirements above and add the following courses:	
CEE 320 Survey of Elementary Education	3
CEE 365 Literature for Children (K–6).....	3
HD 101 Human Development or HD 301 Child Development: School Age	3
Additionally, the internship should be CIE 497, which will be divided between the P–6 and 6–12 levels.	
See general studies requirements listed earlier in this section.	
Courses from areas II, III, and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.	
Teaching Field: German (6–12)	34–38
The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.	
GN 101 Elementary German I and.....	4
GN 102 Elementary German II	4
or GN 103 Accelerated Elementary German.....	4
GN 201 Intermediate German I	3
GN 202 Intermediate German II	3
GN 361 and GN 362 Intermediate Conversation and Composition I and II	6
GN 371 and GN 372 German Culture and Civilization	6
GN 403 Undergraduate Seminar.....	3
Approved 300-level or higher GN electives	6
Advisor-approved elective	3
A minimum of two advisor-approved literature courses are required. GN 264, GN 403, GN 404, or topic-appropriate courses are recommended.	
Additional advisor-approved electives may be necessary to meet the 120-hour degree requirement.	
To expand certification in this foreign language field to the P–12 level, students should complete the requirements above and add the following courses:	
CEE 320 Survey of Elementary Education	3
CEE 365 Literature for Children (K–6).....	3
HD 101 Human Development or HD 301 Child Development: School Age	3
Additionally, the internship should be CIE 497, which will be divided between the P–6 and 6–12 levels.	
See general studies requirements listed earlier in this section.	
Courses from areas II, III, and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.	
Teaching Field (Comprehensive): Mathematics (6–12)	48
The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.5 in these courses.	
A student's proficiency in the content of MATH 100 Intermediate Algebra, MATH 112 Precalculus Algebra, and MATH 115 Precalculus Algebra and Trigonometry will be tested. The scores achieved determine whether a student must complete one or more of these courses as prerequisites for the following coursework in the major. Credit for courses numbered below MATH 125 may be applied to the degree requirements only as elective credit.	
CS 150 Programming I	2
CSE 401 Technologies for Teaching Secondary Math (C)	3
*CSE 406 Curriculum in Secondary Mathematics.....	3
MATH 125 Calculus I.....	4
MATH 126 Calculus II.....	4
MATH 227 Calculus III.....	4
MATH 237 Introduction to Linear Algebra.....	3
MATH 238 Applied Differential Equations.....	3
MATH 301 Discrete Mathematics.....	3
MATH 355 Theory of Probability	3
MATH 403 Advanced Mathematical Connections & Their Development.....	3
MATH 404 Topics in Mathematics for Secondary Teachers.....	1
MATH 405 Geometry for Teachers.....	3

MATH 470 Principles of Modern Algebra I.....	3	GY 300+ (advisor approved elective).....	3
MATH 486 Introduction to Real Analysis I.....	3	HY 101 Western Civilization to 1648.....	3
ST 260 Statistical Data Analysis (C).....	3	HY 102 Western Civilization since 1648.....	3
*Admission to TEP is required.		HY 110 Comparative World Civilizations.....	3
See general studies requirements listed earlier in this section.		HY 203 American Civilization to 1865.....	3
Teaching Field: General Science (Comprehensive) (6–12)		HY 204 American Civilization since 1865.....	3
Content major: Biology	75	HY 300 level or higher (U.S.).....	3
The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.5 in these courses.		HY 300 level or higher (European or British).....	3
Biology		HY 300 level or higher (Asian or Latin American).....	3
BSC 114 Principles of Biology I	3	HY 300 level or higher electives.....	12
BSC 115 Biology I Laboratory	1	PSC 101 Introduction to American Politics.....	3
BSC 116 Principles of Biology II	3	PSC 203 Comparative Politics.....	3
BSC 117 Biology II Laboratory	1	PSC Advisor Approved Elective.....	3
BSC 215 Anatomy and Physiology I.....	4	PY 101 Introduction to Psychology.....	3
BSC 216 Anatomy and Physiology II.....	4	SOC 101 Introduction to Sociology.....	3
BSC 300 Cell Biology	3		
BSC 315 Genetics	3	See general studies requirements listed earlier in this section.	
BSC 385 General Ecology.....	3		
Advisor-approved elective(s) in BSC, 300 level or higher	6–8	Teaching Field: Spanish (6–12)	
Select one of the following courses	3–4	Content major: Spanish	39
BSC 350 Introduction to Inquiry		The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.	
BSC 397 Undergraduate Research in Biological Sciences			
BSC 424 Human Physiology		SP 201 and SP 202 Intermediate Spanish I and II.....	6
BSC 436 Immunology Laboratory		SP 353 Spanish Conversation.....	3
BSC 439 Molecular Biology Laboratory		SP 356 Advanced Grammar and Composition.....	3
BSC 442 Integrated Genomics		SP 361 Introduction to Romance Linguistics (preferred) or SP 300-level or higher elective.....	3
BSC 467 Bahama Field Stream Restoration			
Select one of the following laboratory electives.....	2–5	SP 364 Spanish Civilization or SP 366 Spanish-American Civilization	3
BSC 310, BSC 313, BSC 350, BSC 362, BSC 371, BSC 373, BSC 376, BSC 386, BSC 390, BSC 396, BSC 397, BSC 400, BSC 408, BSC 411, BSC 413, BSC 414, BSC 416, BSC 419, BSC 421, BSC 425, BSC 428, BSC 432, BSC 436, BSC 439, BSC 442, BSC 452, BSC 453, BSC 455, BSC 457, BSC 464, BSC 472, BSC 475, BSC 476, BSC 490			
CSE 476 Improving Science Teaching through New Technologies (C)	3	Choose two of the following:	
MATH 125 Calculus I.....	4	SP 371 Survey of Spanish Literature or SP 375 Masterpieces of Spanish-American Literature I.....	3
Chemistry		SP 372 Survey of Spanish Literature or SP 376 Masterpieces of Spanish-American Literature II.....	3
CH 101 General Chemistry I	4	SP 484 Spanish Phonetics and Syntax	3
CH 102 General Chemistry II	4	SP 491 Cervantes	3
CH 231 Elementary Organic Chemistry I	3	SP 400-level elective	3
CH 232 Elementary Organic Chemistry II	3	Advisor-approved electives	6
CH 237 Organic Chemistry Laboratory I	2		
Physics		Additional advisor-approved electives may be necessary to meet the 120-hour degree requirement.	
PH 101 General Physics I	4		
PH 102 General Physics II	4	To expand certification in this foreign language field to the P–12 level, students should complete the requirements above and add the following courses:	
Integrated Science			
AEM 120 Aerospace Science for Educators	4	CEE 320 Survey of Elementary Education	3
GEO 101 The Dynamic Earth.....	4	CEE 365 Literature for Children (K–6).....	3
See general studies requirements listed earlier in this section.		HD 101 Human Development or HD 301 Child Development: School Age	3
Teaching Field: (Comprehensive): Social Science (6–12)			
Content major: History	63	Additionally, the internship should be CIE 497, which will be divided between the P–6 and 6–12 levels.	
The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.			
From general studies students must select		See general studies requirements listed earlier in this section.	
EC 110 Principles of Microeconomics.....	3		
EC 111 Principles of Macroeconomics.....	3		
GY 110 Principles of Human Geography or GY 105 World Regional Geography.....	3	MIDDLE-SCHOOL (4–8) ENDORSEMENT ON SECONDARY (6–12) CERTIFICATE	
		By completing several additional requirements, a student fulfilling the requirements for certification in a secondary school (6–12) teaching field may also obtain middle-school certification in the same field. Those who hold middle-school certification may teach in their subject fields in grades four through eight; they are not eligible, however, to teach in self-contained elementary classrooms. The additional requirements of the middle-school endorsement program may be secured in 104 Carmichael Hall.	

KINESIOLOGY (P-12)

Professor Matthew Curtner-Smith
Department Head

Office: 106 Moore Hall

In addition to the major in physical education leading to Alabama teacher certification, there is another major possible in kinesiology, exercise and sport science. See "Other Undergraduate Programs Offered."

Physical Education (P-12) (KIN)

This program requires the completion of hours as specified and leads to the bachelor of science in education degree and the Alabama Class B (P-12) Professional Certificate. Students who have completed all 100- and 200-level requirements, have a UA GPA—and, if transfer work, an overall GPA—of at least 2.5, and have completed BSC 215 or BSC 216 (human anatomy and physiology), may apply to the physical education teacher education (PETE) methods cohort fall semester of the junior year. Additionally, students must have a passing score on all three areas (reading, writing, math) on the basic skills assessment of the Alabama Prospective Teacher Testing Program (APTP). Admission to the PETE methods cohort is competitive. Meeting minimum requirements does not guarantee admission. Rather, students who meet stated criteria are guaranteed consideration for admission to the teacher education program. An individual may request from his or her advisor information concerning summative data on the most recent previous admissions.

All students must begin the PETE methods cohort in the fall semester. Admission to the PETE methods cohort enables students to take the following courses:

First PETE fall term: KIN 305, KIN 350, KIN 351, KIN 362, KIN 364
First PETE spring term: KIN 300, KIN 306, KIN 307, KIN 310, KIN 360,
KIN 361
Second PETE fall term: KIN 311, KIN 365, KIN 366, KIN 468, KIN 487, KIN
492
Second PETE spring term: KIN 497

Students will apply to TEP while they are enrolled in KIN 350, fall term. They must meet TEP admission requirements, have 2.5 GPAs (UA and overall) in areas I–V and all coursework, and have completed an application. Applications for TEP are available in 104 Carmichael Hall or 102 Moore Hall.

The undergraduate catalog is published at two-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheets, available from academic advisors and in 104 Carmichael Hall. Further information on recommended course sequences should also be obtained from 102 Moore Hall.

Course	Hours
General Studies	60

Courses that are common to the teaching field and the general studies component may be applied to both. See general studies requirements, listed earlier. The following exceptions apply:

Area II: Courses should be selected to meet teaching field or prerequisite requirements.
Area III: BSC 109 or BSC 114/115 should be selected to meet prerequisite requirements.
Area IV: Courses should be selected to meet teaching field or prerequisite requirements.
Area V: In addition to those courses listed in General Requirements, BSC 215 or BSC 216, and HAT 272 should be selected from remaining hours.

Physical Education Teaching Field 43
The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.5 in these courses.

KIN 199 Ecological Approach to Health and Fitness..... 3
KIN 300 Introduction to Kinesiology..... 3
KIN 305 Analysis & Teaching of Movement III and IV:
Gymnastics and Dance..... 2

KIN 306 Analysis & Teaching of Movement I: Invasion/Striking and Fielding/Target Games.....	3
KIN 307 Analysis & Teaching of Movement II: Track and Field, and Net/Wall Games.....	2
KIN 310 Analysis & Teaching of Movement V: Swimming.....	2
KIN 311 Analysis & Teaching of Health-Related Fitness.....	1
KIN 351* Secondary Clinical Experience.....	3
*KIN 351 must be taken concurrently with KIN 350	
KIN 360** The Subject Matter of Elementary Physical Education.....	3
KIN 361** Elementary Physical Education Curriculum, Philosophy, and Theory* (W).....	3
**KIN 360 must be taken concurrently with KIN 361	
KIN 362 Motor Development.....	3
KIN 365 Applied Biomechanics.....	3
KIN 464 Administration of Physical Education and Sport.....	3
KIN 468 Adapted Physical Education (W).....	3
KIN 487 Physical Education Teaching Methods and Practice (requires admission to TEP).....	3
KIN 492 Physiology of Exercise.....	3

Professional Studies	27
Students must earn grades of "C" or higher in each of the following professional studies courses. No more than five professional studies courses may be taken prior to admission to TEP. (See advisor for appropriate course sequence.) The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.5 in these courses.	

BEF 362 School, Culture, and Society.....	3
BEP 305 Educational Psychology.....	3
KIN 366 Evaluation and Measurement.....	3
KIN 350* Secondary Curriculum.....	3
*KIN 350 must be taken concurrently with KIN 351	
KIN 497 Internship in Physical Education (P-12).....	12
SPE 300 Survey of Special Education and Accommodation Strategies.....	3

MUSIC EDUCATION (P-12) (MUE)

Professor Carol A. Prickett
Department Head

Office: 253 Moody Music Building

The programs in music education require the completion of at least 146 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B (P-12) Professional Certificate.

NOTE: Admission to this program is competitive, and meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program.

BS students in music education may also pursue a second bachelor's degree in music (BM). This option requires 34–54 additional credit hours to earn a BM degree, depending on the area of focus (e.g., performance, jazz studies, composition, and theory). The undergraduate catalog is published at two-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheets, available from 261 Moody Music Building.

Course	Hours
General Studies	47-49

Courses that are common to the teaching field and the general studies component may be applied to both. Music education majors should select PY 101 and MUS 250 to satisfy UA Core Curriculum behavioral science and fine arts requirements.

Music Education Teaching Fields (choose one)

The University of Alabama GPA—and, if transfer work, the overall GPA—in MUS, MUA, and MUE courses must meet the criteria below. Each list's GPA is calculated separately and must meet the minimum, even if the overall GPA is 2.75 or higher.

Instrumental Music Teaching Field 66-69
The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

Music Academics

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA, and MUE GPA must be 2.75 or higher. (32 hours)

MUS 115 Theory I.....	4
MUS 117 Theory II.....	4
MUS 215 Theory III	4
MUS 217 Theory IV.....	4
MUS 250 Music in World Cultures (FA).....	3
MUS 251 Music History I.....	3
MUS 252 Music History II.....	3
MUS 323 Music History III (W).....	3
MUS 351 Fundamentals of Conducting	2
MUS 494 Band Conducting.....	2
MUE 200 Introduction to Music Education.....	2

Applied and Ensemble

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA, and MUE GPA must be 2.75 or higher. (25 hours)

MUA 010 Music Convocation	0
MUA 010 Music Convocation	0
MUA 010 Music Convocation	0
MUA 010 Music Convocation	0
MUA 010 Music Convocation	0
Principal Applied:	
MUA 170–MUA 190.....	8
MUA 199 Sophomore Qualifying Exam.....	0
MUA 370–MUA 390.....	5
MUA 499 Senior Recital	1
Instrumental Ensemble courses (minimum one per term).....	7
Class Piano: (0–4 hours)	
Pass MUA 299 Piano Proficiency Exam.....	0
Complete the following with no grade less than a "B":	
MUA 121, MUA 122, MUA 123, and MUA 124*	1-4

*Students must register for MUA 299 to show evidence of passing piano proficiency examination. Students completing the Class Piano series should register for MUA 299 concurrently with MUA 124. Students are required to take piano until evidence of passing the piano proficiency is provided.

Class Instruments

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA, and MUE GPA must be 2.75 or higher. (10 hours)

MUE 252 Teaching String and Percussion Instruments	2
MUE 351 Teaching Flute and Single Reeds.....	3
MUE 352 Teaching Double Reeds	1
MUE 353 Teaching Brass Instruments.....	2
MUE 354 Teaching Percussion II	1
MUE 381 Vocal Methods Lab.....	1

Vocal/Choral Music Teaching Field 65

The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

Music Academics

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA, and MUE GPA must be 2.75 or higher. (32 hours)

MUS 115 Theory I.....	4
MUS 117 Theory II.....	4
MUS 215 Theory III	4
MUS 217 Theory IV.....	4
MUS 250 Music in World Cultures (FA).....	3
MUS 251 Music History I.....	3
MUS 252 Music History II.....	3
MUS 323 Music History III (W).....	3
MUS 351 Fundamentals of Conducting	2
MUS 492 Choral Conducting.....	2
MUE 200 Introduction to Music Education.....	2

Applied and Ensemble

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA, and MUE GPA must be 2.75 or higher. (25 hours)

MUA 010 Music Convocation	0
MUA 010 Music Convocation	0

MUA 010 Music Convocation	0
MUA 010 Music Convocation	0
MUA 010 Music Convocation	0
Principal Applied:	
MUA 171 or MUA 174.....	8
MUA 199 Sophomore Qualifying Exam.....	0
MUA 371 or MUA 374.....	5
MUA 499 Senior Recital	1
Secondary Applied:	
MUA 271 or MUA 274.....	4

NOTE: If principal applied is voice, then secondary applied must be piano, and vice versa. Class piano (MUA 121–MUA 124 Class Piano I–IV) is an acceptable secondary applied; however, piano proficiency (MUA 299) must be passed.

Choral Ensemble Courses (one per term)..... 7

Class Instruments

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA, and MUE GPA must be 2.75 or higher. (6 hours)

MUE 251 Introduction to Wind, Strings, and Percussion	3
MUE 380 Vocal Methods.....	2
MUE 381 Vocal Methods Lab.....	1

See general studies requirements listed earlier in this section.

Courses from areas II, III, and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

Professional Studies 36

Students must earn grades of "C" or higher in each of the following professional studies courses. The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

² BEF 362 School, Culture, and Society	3
^{1,2} BEP 305 Educational Psychology	3
² CRD 412 Improving Reading in Secondary Schools (W)	3
MUS 448 Teaching Instrumental Music in Public Schools (instrumental majors) or MUS 447 Teaching Choral Music in Public Schools (choral majors)	3
MUE 387 The Elementary School Music Program (W)	3
^{1,2} MUE 389 Clinical Experience in Music Education (with a grade of "B" or higher)	3
MUE 350 Evaluation of Teaching and Learning in Music	3
MUE 497 Internship in Music (P–12)	12
² SPE 300 Survey of Special Education and Accommodation Strategies ..	3

Total: 148–150

¹This is a prerequisite for admission to the teacher education program.

²A student may not enroll in more than the five identified professional studies courses prior to unconditional admission to TEP.

SPECIAL EDUCATION AND MULTIPLE ABILITIES (SPE)

Office: 201-B Graves Hall

The department offers undergraduate programs that require the completion of a minimum of 120 semester hours as specified below and lead to the bachelor of science in education degree and the Alabama Class B Professional Certificate.

NOTE: Admission to this program is competitive, and meeting stated criteria does not guarantee admission. Rather, persons who meet stated criteria are guaranteed consideration for admission to the teacher education program. An individual may request from the program chairperson or his or her advisor information concerning summative data on the most recent previous admissions.

Applied and Ensemble

The minimum GPA for this list of courses must be 2.5. The overall MUS, MUA, and MUE GPA must be 2.75 or higher. (25 hours)

MUA 010 Music Convocation	0
MUA 010 Music Convocation	0

COLLABORATIVE SPECIAL EDUCATION (K–6) OR (6–12)

The special education CTP is an innovative teacher preparation program that leads to a bachelor of science in education degree with three teacher certification options at the Alabama Class "B" level:

- elementary collaborative (K–6)
- secondary collaborative (6–12)
- dual elementary (K–6)/secondary (6–12) collaborative

The undergraduate CTP is a two-year upper-division program that prepares students to work in general and special education settings with children and youth who have a wide range of disabilities. A cohort of students is accepted each fall. Students in the CTP cohort take the majority of their courses together, work on numerous collaborative assignments and projects with their peers and their instructors, and participate in a number of practicums in a variety of educational settings. In addition to practicums and internships in local education agencies, CTP students have opportunities to gain practical experience in working with individuals with disabilities.

The final semester of the CTP program is devoted to a full-time teaching internship in a local education agency appropriate to the teaching certificate option selected. Mentoring teachers for the internship are selected carefully and work closely with CTP faculty to ensure program continuity and high-quality student teaching experiences. A system of Teacher Work Samples has been integrated into the Special Education undergraduate and alternative master's degrees to assure continuity.

The undergraduate catalog is published at two-year intervals. DegreeWorks program guides within myBama are updated as policy changes are made and are thus likely to provide the most up-to-date information on degree and other requirements. In addition, a program handbook with which students are expected to be familiar is available in 201 Graves Hall.

A student must have an overall and University of Alabama GPA of no less than 2.75 for admission to this TEP. After admission, the student must maintain at least a 2.75 UA and overall GPA in coursework in professional studies and teaching field courses, with no grade less than a "C." A 2.75 GPA is required for internship.

General Studies 60

General studies courses must be completed prior to being admitted to the teacher education program. Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

In addition to the required general studies, students in this program must complete 9 additional hours of mathematics and 4 additional hours of science for a total of 12 hours in each area. Additionally, students must complete 12 hours in English language arts and social science.

Courses from areas II, III, and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements. CAT 200 Computer Education Applications (C) (3 hours) is required.

Professional Studies 24

Students must earn grades of "C" or better in each of the following professional studies courses. The UA GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

BEF 362 School, Culture, and Society	3
BEP 305 Educational Psychology	3
SPE 300 Survey of Special Education and Accommodation Strategies	3
SPE 304 Instructional Strategies in Special Education (W)	3
SPE 499 Internship in Special Education (elementary) or SPE 499 Internship in Special Education (secondary).....	12

Teaching Field(s) 36–39

Students must earn grades of "C" or better in each of the following teaching field courses. The UA GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

CEE 380 Teaching Elementary Mathematics (P–6)	3
CRD 369 Fundamentals of Reading Instruction.....	3
CRD 400 Teaching Reading to Diverse Learners K–12	3
HD 101 Human Development.....	3

SPE 302 Educational Diagnostic Measurement (W)	3
SPE 374 Parenting Children (W).....	3
SPE 382 Teaching Thinking Skills	3
SPE 414 Collaboration and Consultation	3
SPE 416 Instructional Strategies for Students with Severe Disabilities	3
SPE 435 Behavior Management	3
SPE 491 Educational Methods for Mild Learning and Behavior Disorders –Elementary and/or SPE 492 Educational Methods for Mild Learning and Behavior Disorders—Secondary	3–6
SPE 493 Introduction to Severe/Profound Disabilities	3

EARLY CHILDHOOD SPECIAL EDUCATION (Birth–8 Years)/EARLY CHILDHOOD EDUCATION (Primary-3rd Grade) (dual certification)

Through the major in early childhood special education, students learn about the intellectual, physical, social, and emotional development of young children with special needs and their families. Students graduating with this major are eligible for recommendation for an Alabama Class B public school certification to teach birth to age eight children with diverse needs as well as an Alabama Class B certificate in early childhood education (Primary to 3rd grade). Experimental learning activities, assessment, and practicums are provided for students on and off campus through the Office of Clinical Experiences. On-campus facilities providing structured practicums include the Child Development Laboratories and the Rural Infant Stimulation Environment (RISE) Program. These programs provide opportunities for students to work with infants, toddlers, and children who have a broad range of special needs. In addition, all students who major in early childhood special education will complete supervised practicum and internship experiences in diverse public school settings.

The undergraduate catalog is published at two-year intervals. Program advising sheets are updated as policy changes are made and are thus likely to provide the most up-to-date information on degree and other requirements through DegreeWorks in myBama.

Courses	Hours
General Studies	60

Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree.

In addition to the required general studies, students in this program must complete 9 additional hours of mathematics and 4 additional hours of science for a total of 12 hours in each area. Twelve hours in both English language arts and social science are required.

CAT 200 Computer Education Applications (C) (3 hours) is required.

Professional Studies	24
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Students must earn grades of "C" or higher in each of the following professional studies courses. The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

BEF 362 School, Culture, and Society	3
BEP 305 Educational Psychology	3
SPE 300 Survey of Special Education and Accommodation Strategies	3
SPE 304 Instructional Strategies in Special Education (W)	3
SPE 479 Internship in Education of Young Children with Diverse Abilities	12

Early Childhood Special Education (Birth–8 years)/Early Childhood Education (Primary-3rd Grade) (dual certification) Teaching Field	39
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The University of Alabama GPA—and, if transfer work, the overall GPA—must be at least 2.75 in these courses.

CD 226 Language and Speech Development	3
CEE 380 Teaching Elementary Mathematics	3
CRD 369 Fundamentals of Literature and Language Learning (W)	3
CRD 400 Teaching Reading to Diverse Learners K–12	3
HD 202 Child Development: Infancy and Toddlerhood.....	3
HD 205 Child Development: Preschool.....	3
SPE 374 Parenting Children (W).....	3

SPE 414 Collaboration and Consultation.....	3	MAP 312 The Learner	3
SPE 435 Behavior Management.....	3	MAP 322 Communication/Collaboration.....	3
SPE 471 Developmental Perspectives of Young Children with Disabilities.....	3	MAP 332 Facilitating Learning.....	3
SPE 476 Assessment of Young Children.....	3	MAP 342 Field Experience/Practicum.....	3
SPE 477 Differentiated Academic Instruction.....	3		
SPE 478 Methods of Teaching Young Children with Disabilities.....	3		
See general studies requirements listed earlier in this section. The following exceptions apply:			
Area II: Courses should be selected to meet teaching field or prerequisite requirements.			
Area IV: Courses should be selected to meet teaching field or prerequisite requirements.			
Area V: From those courses listed in option 2, CAT 200 and CAT 250 should be selected.			
	Total: 123		

MULTIPLE ABILITIES PROGRAM (K-6) (MAP)

Professor Madeleine Gregg
Program Coordinator

Office: 215-C Graves Hall

The Multiple Abilities Program (MAP) is an integrated program leading to dual certification in collaborative teacher (K-6) and elementary education (K-6). This program is open to a cohort of 25 full-time students, who are selected to complete the 78-semester-hour course sequence over four consecutive semesters and one summer term. Students may be considered for participation only if, by the end of the summer term prior to MAP coursework, they have completed the College of Education's general studies program, excluding CAT 200 and CAT 250, but including MUE 107.

The undergraduate catalog is published at two-year intervals. Program advising sheets are updated as policy changes are made; they are thus likely to provide the most up-to-date information on degree and other requirements through DegreeWorks in myBama.

Courses	Hours
General Studies	60
Each student must secure a "core check" from personnel in 104 Carmichael Hall. Courses that are common to the teaching field and the general studies component may be applied to both. At least 120 hours are required for the degree. See general studies requirements listed earlier.	

Courses from areas II, III, and IV, plus any hours remaining in area V, should be utilized to meet teaching field or prerequisite requirements.

The student is responsible for maintaining a 2.75 GPA for (a) UA coursework, (b) overall coursework including transfer work, and (c) MAP coursework.

The following are required to be eligible to continue in the program after the first semester:

- a grade of at least a "C" in all MAP coursework.
- demonstrated proficiency in writing coherent, logical, carefully edited prose.
- a score of 90% on the math competency test by the end of the semester.
- Two of the written assignments that have the 'W' designation (see list below) will be assessed for writing competence and returned by midterm in order to give feedback about writing competence. One other written assignment, completed late in the first semester, will also have a 'W' designation. Writing proficiency is required for a passing grade in MAP 301: Professionalism. All MAP written assignments will require coherent, logical, and carefully edited prose.

Fall I	
MAP 301 Professionalism (W).....	3
MAP 311 The Learner.....	3
MAP 321 Communication/Collaboration (W).....	3
MAP 331 Facilitating Learning.....	3
MAP 341 Field Experience/Practicum	3
Spring I	
MAP 302 Professionalism	3

Summer I	
MAP 403 Professionalism	2
MAP 413 The Learner	2
MAP 423 Communication/Collaboration.....	1
MAP 433 Facilitating Learning.....	1
MAP 443 Field Experience/Summer Enrichment Workshop (SEW) Practicum	6
Fall II	
MAP 404 Professionalism	3
MAP 414 The Learner	3
MAP 424 Communication/Collaboration.....	3
MAP 434 Facilitating Learning.....	2
MAP 444 Field Experience/Special Education Internship	6
Spring II	
MAP 405 Professionalism	3
MAP 415 The Learner	3
MAP 425 Communication/Collaboration.....	3
MAP 435 Facilitating Learning.....	2
MAP 445 Field Experience/Regular Classroom Internship	6

Total: 76

NOTE: Students in this program must complete 4 additional semester hours of natural science (for a total of 12) and additional hours of mathematics (for a total of 12 hours). MATH 100 and MATH 208 may be taken in addition to other MA-designated MATH courses. Twelve hours in both English language arts and social science are required.

OTHER UNDERGRADUATE PROGRAMS OFFERED

The College of Education offers one undergraduate program leading to the bachelor of science in education degree that is not for the preparation of teachers. This program requires the completion of a minimum of 120 semester hours in prescribed and elective courses, as set forth in this catalog, and the achievement of the College's minimum standards of scholarship.

PROGRAM IN EXERCISE AND SPORT SCIENCE (NON-CERTIFICATION) (HPES)

Associate Professor Mark Richardson
Associate Professor Jonathan Wingo

Office: 208 Moore Hall
Office: 200 Moore Hall

This program offered by the Department of Kinesiology requires the completion of 120 semester hours as specified below and leads to the bachelor of science in education degree. The program does not lead to professional certification as a teacher. A prospective exercise and sport science student must (a) complete 45 hours of applicable courses toward the degree, and (b) have at least a 2.0 GPA before taking upper-division (300-level or above) courses in the program of study.

Course	Hours
General Studies	50
See general studies requirements listed earlier in this section. The following exceptions apply:	

Area II: Student may substitute a different Area II course for the public-speaking requirement.

Area III: BSC 109 should be taken to meet prerequisite requirements. For students selecting the preprofessional concentration, BSC 114 and BSC 115 should be taken instead of BSC 109. Students selecting the preprofessional concentration should complete MATH 112 to meet prerequisite requirements.

Area IV: Students selecting the business concentration are encouraged to complete EC 110 in meeting University core requirements. Students selecting the preprofessional concentration should complete PY 101 to meet prerequisite requirements.

Kinesiological core	.....	34	Electives as needed to complete 120 semester hours, in addition to all University core and exercise and sport science program courses.
All students in the major must complete the kinesiological core.			
BSC 215 Human Anatomy and Physiology I	.....	4	
BSC 216 Human Anatomy and Physiology II	.....	4	
HAT 272 First Aid, Safety, and CPR	.....	2	
KIN 199 Ecological Approach to Health and Fitness	.....	3	
KIN 300 Foundations of Human Performance	.....	3	
KIN 362 Motor Development	.....	3	
KIN 365 Applied Biomechanics	.....	3	
KIN 366 Evaluation and Measurement	.....	3	
KIN 464 Administration of Physical Education and Sport	.....	3	
KIN 468 Adapted Physical Education (W)	.....	3	
KIN 492 Physiology of Exercise	.....	3	
Kinesiological concentrations	.....	36–43	
Students in the major must select three of the following concentrations for in-depth study or the pre-professional concentration plus one additional concentration. This should be discussed with an advisor in the Department of Kinesiology.			
Fitness concentration	.....	15	
KIN 387 Field Experience in Kinesiology	.....	3	
KIN 493 Fitness Appraisal and Exercise Prescription	.....	3	
KIN 488 Internship in Exercise and Sport Science	.....	9–12	
Health Promotion concentration	.....	12	
HHE 370 Principles & Fndns of Hlt Pro	.....	3	
HHE 378 Drug Awareness/Education (W)	.....	3	
HHE 440 Stress Management	.....	3	
HHE 467 Design & Eval Hlt Promo Prog	.....	3	
Nutrition concentration	.....	12	
NHM 101 Introduction to Human Nutrition	.....	3	
NHM 210 Dynamics of Weight Control	.....	3	
NHM 315 Nutrition for Performance	.....	3	
NHM 401 Nutrition for Health Professionals	.....	3	
Business concentration	.....	12–13	
Select 12–13 hours from the following courses:			
AC 210 Introduction to Accounting	.....	4	
APR 231 Introduction to Public Relations	.....	3	
EC 110 Principles of Microeconomics	.....	3	
LGS 200 Legal Environment of Business	.....	3	
HES 460 Sports Management	.....	3	
Coaching/Sport Skill concentration	.....	12	
Select 12 hours from the following courses while noting the following rules:			
Students opting for this concentration may take up to three 3-hour coaching courses at the 300 level or above. Students may also take a maximum of six different 1-hour leisure activity courses to partially fulfill this concentration.			
Coaching courses (300 level or greater)	.....	0	
Leisure activity courses	.....	0–6	
KIN 306 Analysis and Teaching of Movement I: Invasion/Striking and Fielding/Target Games	.....	3	
HAT 257 Introduction to Athletic Training	.....	3	
Pre-professional concentration*	.....	28	
CH 101 General Chemistry I	.....	4	
CH 102 General Chemistry II	.....	4	
PH 101 General Physics I	.....	4	
PH 102 General Physics II	.....	4	
MATH 113 Precalculus Trigonometry	.....	3	
PY 211 Elementary Statistical Methods	.....	3	
PY electives	.....	6	
Disability sports concentration	.....	15	
KIN 387 Field Experience in Kinesiology	.....	3	
SPE 300 Survey of Special Education and Accommodation Strategies	.....	3	
KIN 488 Internship in Exercise and Sport Science	.....	6	
KIN 496 Independent Study in Physical Education	.....	3	

COLLEGE OF EDUCATION SUPPORT PROGRAMS

The following programs do not offer certification in undergraduate teaching fields. They do offer undergraduate courses, however, and many of these courses are required or are options for certification in the various undergraduate teaching fields.

PROGRAM IN COMPUTERS AND APPLIED TECHNOLOGY (CAT)

Professor Margaret Rice
Program Coordinator

Office: 315-F Graves Hall

Courses provided by the Program in Computers and Applied Technology are commonly used to satisfy part of the general studies requirements for the College of Education baccalaureate degree, since each undergraduate education major must complete at least one introductory computer course. In addition, undergraduates often use CAT 200 and CAT 250 to meet the University's Core Curriculum requirement for foreign language/computer science.

PROGRAM IN COUNSELOR EDUCATION (SCHOOL COUNSELING) (BCE)

Professor S. Allen Wilcoxon III
Program Coordinator

Office: 315 Graves Hall

The Program in Counselor Education assists undergraduate students in exploring counseling services that supplement elementary and secondary school academic programs. Undergraduates may examine the essential elements of school counseling and guidance either in preparation for employment in school settings or as a foundation for graduate study in counselor education.

PROGRAM IN EDUCATIONAL PSYCHOLOGY (BEP)

Professor Steve Thoma
Program Coordinator

Office: 305-A Carmichael Hall

Undergraduate coursework provided by the Program in Educational Psychology supports College of Education undergraduate teacher education programs and other programs across the University. The coursework is designed to provide basic knowledge and competencies related to human learning and development. The Program in Educational Psychology offers several graduate degrees, as described in the University of Alabama graduate catalog.

PROGRAM IN EDUCATIONAL RESEARCH (BER)

Professor Rick Houser
Program Coordinator

Office: 306-C Carmichael Hall

Courses provided by the Program in Educational Research support College of Education undergraduate teacher education programs and are designed to provide basic assessment competencies for future teachers.

PROGRAM IN SCHOOL PSYCHOLOGY (BSP)

Professor Patti Harrison
Program Coordinator

Office: 306 Carmichael Hall

The Program in School Psychology offers several graduate degrees, as described in the University of Alabama graduate catalog.

PROGRAM IN SOCIAL AND PHILOSOPHICAL FOUNDATIONS IN EDUCATION (BEF)

Professor John Petrovic
Program Coordinator

Office: 323-C Graves Hall

Foundations in education course offerings include basic support for undergraduate and graduate teacher education programs throughout the College of Education and for programs in other units of the College and the University.

READING EDUCATION (CRD)

Reading education is required in the professional education component of all undergraduate teacher education/certification programs.

Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors or error occasioned by honest mistake. All information contained in this catalog is subject to change by the appropriate officials of The University of Alabama without prior notice.

COLLEGE OF EDUCATION

ADMINISTRATIVE OFFICERS

JAMES E. MCLEAN, BS, MStat, PhD, Dean, College of Education.
B. JOYCE STALLWORTH, MEd, EdD, Senior Associate Dean.
DAVID HARDY, BFA, MS, PhD, Associate Dean for Research and Service.
KATHY SHAVER-WETZEL, MEd, EdS, EdD, Associate Dean for Student Services and Certification.
DEBORAH A. POWELL, MA, Registrar and Assistant Certification Officer.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to rank or title listed.

Curriculum and Instruction

Elementary

COLEMAN, JULIANNE, BS (George Mason), MEd (Marymount), PhD (Virginia). Assistant Professor, 2006.
DAIL, ALANNA ROCHELLE KING, BS, MEd, EdS (Middle Tennessee State), PhD (Vanderbilt). Assistant Professor, 2005.
FREEMAN, LEE, BA, MA, EdS, EdD (Alabama). Clinical Assistant Professor, 2006.
GOLDSTON, M. JENICE, BSEd, MNS (Southeast Missouri State), PhD (Georgia). Associate Professor, 2002.
HERRON, JULIE K., BA (Oregon), MA (San Diego State), PhD (Utah State). Assistant Professor, 2007.
HOLT, VICKI S., BSE, MA (Alabama), Reading Specialist Certification (UAB). Clinical Instructor, 2009.
HUBBARD, JANIE D. BS (Montevallo), MA, EdS (UAB), EdD (Alabama). Clinical Assistant Professor, 2009.
MUNDY, CHARLOTTE, BA, MA (South Florida), PhD (Florida). Assistant Professor, 2009.
PAYNE, REBECCA, BA, MEd (Florida), PhD (Tennessee). Assistant Professor, 2008.
SEKERES, DIANE C., BA (Georgia), MA (Emory), PhD (Georgia). Associate Professor, 2003, 2009.
SHWERY, CRAIG, BSEd (Houston), MSEd (Texas–Pan America), EdD (Arizona). Associate Professor, 2000.
SUNAL, CYNTHIA C., BPhil (Detroit), MA (Michigan), PhD (Maryland). Professor, 1989.

Secondary Curriculum, Teaching, and Learning

HOLAWAY, CALLI, BS (Concordia College), MA (South Dakota), PhD (Arkansas). Assistant Professor, 2009.
LOVORN, MICHAEL, BA (Carson-Newman), MA, PhD (Tennessee). Assistant Professor, 2008.
MANTERO, MIGUEL, BA, MEd (Georgia), PhD (Florida State). Associate Professor and Department Head, 2002, 2007.
NICHOLS, SHARON ELIZABETH, BS (Florida), MS, PhD (Florida State). Associate Professor, 2002.
SCHERFF, ELISA ANN, BA (Florida State), MA (Mississippi), PhD (Florida State). Associate Professor, 2005, 2008.
SPECTOR, KAREN, BA, MEd (Florida), EdD (University of Cincinnati). Assistant Professor, 2007.
STALLWORTH, B. JOYCE, BSEd (Alabama), MEd (Auburn–Montgomery), EdD (Vanderbilt). Professor and Senior Associate Dean, 1995, 2003.
SUMMERS, ROBERT, BA (Tennessee Tech), MAT (Middle Tennessee State), PhD (South Florida). Assistant Professor and Director of International Programs, 2009.
SUNAL, DENNIS, BS, MA, PhD (Michigan). Professor, 1989, 1991.
WILSON, ELIZABETH K., BS, MA (Alabama), PhD (Louisiana State). Professor, 1991, 2003.
WRIGHT, VIVIAN H., BA (Morehead State), MA, PhD (Alabama). Associate Professor, 2001, 2007.
ZELKOWSKI, JEREMY, BA, MS (West Virginia), PhD (Ohio). Assistant Professor, 2008.

Educational Leadership, Policy, and Technology Studies

ADAMS, NATALIE G., BS (Louisiana State), MEd (Southwestern Louisiana), PhD (Louisiana State). Professor and Associate Dean, Graduate School, 2000.
ARREDONDO-RUCINSKI, DAISY, BA Ed, MAT, PhD (Washington). Professor, 2006.
ATKINSON, BECKY, BA (Pomona College), MA (Stanford), PhD (Alabama). Assistant Professor, 2007.
BAUCH, PATRICIA A., BA (Edgewood College of the Sacred Heart), MSEd (Northern Illinois), PhD (UCLA). Professor, 1990, 2001.
BENSON, ANGELA, BS (Spellman), BS, MS (Georgia Institute of Technology), PhD (Georgia). Associate Professor, 2006.
BRAY, NATHANIEL JAMES, BA (Harvard), MEd, PhD (Vanderbilt). Assistant Professor, 2004.
DAGLEY, DAVE, BS, MEd (Southern Illinois), PhD (Utah), JD (Cumberland School of Law, Samford). Professor, 2000, 2002.
EREVELLES, NIRMALA, BSc (Madras, India), MS (Syracuse), PhD (Syracuse). Associate Professor, 2001, 2003.
HARDY, DAVID, BFA (Southern Methodist), MS (Amberton), PhD (North Texas). Associate Professor, 2005.
HARRIS, MICHAEL S., BA (North Carolina), MS, EdD (Pennsylvania). Assistant Professor, 2004.
HOLLEY, KARRI, BA (Alabama), MEd, PhD (Southern California). Assistant Professor, 2006.
JONES, JENNIFER, BS (Mankato State), MS (Eastern Illinois), PhD (William and Mary). Clinical Assistant Professor, 2008.
KATSINAS, STEPHEN G., BA (Illinois at Urbana-Champaign), MA, PhD (Southern Illinois-Carbondale). Professor and Director, Education Policy Center, 2005.
KING, MARGARET INGRAM, BA, MA (Alabama), PhD (University of New Orleans). Clinical Professor, 2007.
LEWIS, TIMOTHY, BS (Auburn), MA, PhD (Alabama). Clinical Instructor, 2008.
MAJOR, CLAIRE HOWELL, BA (South Alabama), MA (Alabama-Birmingham), PhD (Georgia). Professor, 2000, 2009.
McGREW, KEN, BA (Eugene Long), MA, PhD (Wisconsin, Madison). Clinical Assistant Professor and Assistant Director, Education Policy Center, 2008.
McKNIGHT, DOUGLAS, BA (Louisiana State), MA (SUNY-Albany), PhD (Louisiana State). Associate Professor, 2001, 2006.
MITCHELL, ROXANNE, BA (Oral Roberts), MS (Northeastern State), EdD (Oklahoma State). Assistant Professor, 2007.
NEWTON, ROSE MARY, BS (Brescia), MA (Western Kentucky), EdD (Louisville). Associate Professor, 2000, 2006.
PETROVIC, JOHN E., BA (Juniata), MEd (Pennsylvania State), PhD (Colorado). Associate Professor, 2000, 2006.
RICE, MARGARET L., BS (Central Michigan), MA, PhD (Alabama). Associate Professor, 1994, 2001.
RICE, RICHARD, BS, MA, PhD (Alabama), MBA (UAB), JD (Birmingham School of Law). Associate Professor and Director, Alabama Superintendents' Academy, 1999.
TARTER, JOHN, BA (California State College), MA (California, Riverside), EdD (Rutgers). Professor, 2006.
TOMLINSON, STEPHEN C., BEd, MA (London), MA, PhD (Florida). Professor and Department Head, 1991, 1997.
URBAN, WAYNE J., BSS (John Carroll), MA, PhD (Ohio State). Professor and Associate Director, Education Policy Center, 2006.
WESTBROOK, PHILIP, BS (Birmingham Southern), MAEd (Alabama at Birmingham), EdD (Vanderbilt). Clinical Associate Professor and Director of the Blackburn Institute, 2007.

Educational Studies in Psychology, Research Methodology, and Counseling

Counselor Education

BURNHAM, JOY, BS (Auburn), MS (Jacksonville State University), PhD (Auburn). Associate Professor, 2002.
CARMICHAEL, KARLA D., BS, MEd, PhD (North Texas). Professor, 1991, 1997.

HOOPER, LISA MARIE, BS (Maryland), MA (Marymount), PhD (George Washington). Assistant Professor, 2005.
HOUSER, RICK, BA (Kent State), MRC (Bowling Green State), PhD (Pittsburgh). Professor and Department Head, 2007.
LEGGETT, MARK, BS, MA (Mississippi College), PhD (Alabama). Clinical Assistant Professor, 2004.
SATCHER, JAMIE F., BS (Southern Mississippi), MEd, PhD (Mississippi State). Professor and Associate Dean, 1991, 2007.
WILCOXON, S. ALLEN, BA (Ouachita Baptist), MA (Stephen F. Austin), EdD (East Texas). Professor and Program Coordinator, 1983, 1991.

Educational Psychology

IRAN-NEJAD, ASGHAR, BA (Tehran), MA, PhD (Illinois). Professor, 1987, 1996.
ROBINSON, CECIL D., BSc (Northwestern), MA, PhD (Colorado). Assistant Professor, 2003.
SMITH, ANNIE, BS, MEd (Mississippi University for Women), PhD (Alabama). Clinical Assistant Professor, 2009.
THOMA, STEPHEN I., PhD (Minnesota). Professor and Program Coordinator, 1986, 1990.

Educational Research

GIESEN, JUDY, BS (Kent State), MS (Mississippi State), PhD (Alabama). Clinical Professor and Director of Research, Office for Research and Service.
GODFREY, ANN, BS (Mississippi University for Women), M.Ed (Auburn University at Montgomery), PhD (Alabama). Clinical Assistant Professor, 1999.
HUGHEY-SURMAN, STACY, BS, MA (Alabama). Clinical Instructor, 2007.
KUNTZ, AARON, BA (Saint Michael's College), MA (Northeastern), EdD (Massachusetts-Amherst). Assistant Professor, 2007.
MCLEAN, JAMES E., BS, MStat, PhD (University of Florida). Dean and University Professor, 2004.
MILLS, JAMIE D., BS (North Carolina Central), MS (Georgia State), PhD (Georgia). Associate Professor, 2000, 2006.
SCHMITT, VICKI, BS, MS (Southwest Missouri State), PhD (Kansas). Assistant Professor, 2008.
SCHUMACKER, RANDALL, BS (Western Illinois), MS, PhD (Southern Illinois). Professor, 2007.
TEMPLIN, SARA ELIZABETH, BA (Millikin), MS, MA, PhD (University of Illinois, Urbana-Champaign). Assistant Professor, 2009.

School Psychology

HARRISON, PATTI L., BA, MEd, PhD (Georgia). Professor, 1985, 1993.
ROBINSON, TINA, BS, MA, PhD (Alabama). Clinical Assistant Professor, 2009.
RUSH, CRAIG, BA (North Carolina at Wilmington), MS (East Carolina), EdS, PhD (Alabama). Assistant Professor, 2006.

Kinesiology

BISHOP, PHILLIP A., BS (U.S. Naval Academy), MSEd (James Madison), EdD (Georgia). Professor, 1984, 1996.
CURTNER-SMITH, MATTHEW D., BEd (Exeter), MS (Colorado State), EdD (Northern Colorado). Professor and Department Head, 1991, 1997.
HARDIN, L. BRENT, BA (Ambassador College), MA (Georgia), PhD (Florida State). Associate Professor, 2003.
RICHARDSON, MARK T., BA (California State), MA (California), PhD (Minnesota). Associate Professor, 1991, 1997.
SINELNIKOV, OLEG, BA (Tambor State), MA (Indiana State), PhD (Auburn). Assistant Professor, 2007.
STRAN, MARGARET, BA, MS (Illinois at Urbana-Champaign), PhD (Alabama). Assistant Professor, 2007.
VINCENT, JOHN, ACIB (North East Surrey College of Technology, England), MS (Southern Mississippi), PhD (Florida State). Associate Professor, 2000, 2006.
WINGO, JONATHAN ERIC, BS (Berry College), MA (UNC-Chapel Hill), PhD (Georgia). Assistant Professor, 2009.
WOODRUFF, ELIZABETH A., BS (Samford), MA (Alabama). Clinical Instructor, 2006.

Music Education

BRIDGES, B. SCOTT, BMed (Kansas), MM , PhD (Catholic). Professor, 1979, 1992.
DRILL, DANIEL G., BM (Georgia State), MM (Northeast Louisiana). Assistant Professor, 1967, 1976.
FLEMING, SUSAN, BME (James Madison), MM (Ball State), DMA (Maryland). Professor, 1988, 2000.
HANCOCK, CARL, BME, MM, PhD (Florida State). Assistant Professor, 2005.
LATIMER, MARVIN, BME, MME (Wichita State), PhD (Kansas). Assistant Professor, 2007.
MATHIS, LARRY, BS, MS (Juilliard). Associate Professor, 1969,1984.
MC GUIRE, KENNETH M., BM (SUNY-Fredonia), MM (SUNY-Binghamton), PhD (Syracuse). Associate Professor, 1998, 2005.
NOFFSINGER, JONATHAN, BMe (Murray State), MM (Louisiana State), DMA (Michigan State). Associate Professor, 1993, 2000.
OZZELLO, KENNETH B., BM, MM, (West Virginia), PhD (Alabama). Professor, 1989, 1995.
PRICKETT, CAROL A., AB, BM (Birmingham-Southern), MM, PhD (Florida State). Professor and Department Head, 1983, 1999.
RATLEDGE, JOHN, BM (Carson-Newman College), MM (Hardin-Simmons), DMA (Southern California). Associate Professor, 2005.

Special Education and Multiple Abilities

BEIRNE-SMITH, MARY, BS (Longwood), MEd, EdD (Virginia). Associate Professor, 1986, 1991.
CHAPMAN, JOHN KEITH, BS (Troy State), MA, PhD (Alabama). Associate Professor, 1998, 2004.
DE WET, CATHARINA, BA (Rand Afrikaans), MA (Colorado at Colorado Springs), PhD (Connecticut). Assistant Professor, 2006.
DONOVAN, CAROL A., BSEd, MA, PhD (New Mexico). Associate Professor, 1997, 2002.
ELLIS, EDWIN S., BS, MA (Alabama), PhD (Kansas). Professor, 1991, 1994.
GREGG, MADELEINE, BA (Wisconsin-Madison), MEd, PhD (Pittsburgh). Professor, 1993, 2006.
HOWARD, PAMELA, BS (Columbus State), MEd (Georgia College), EdS (West Georgia), PhD (Alabama). Clinical Assistant Professor, 2008.
KOMARA, CECILE, BS (Alabama), AA (Southeast Community College, Lincoln), MS, PhD (Kansas, Lawrence). Assistant Professor, 2006.
MUTUA, N. KAGENDO, BEd (Kenya), MS (Clarion), PhD (Kent). Associate Professor, 2001, 2004.
NEWMAN, JANE LUMPKIN, BA (Birmingham-Southern), MA, MA, EdS, EdD (Alabama). Associate Professor, 2002.
SIDERS, JAMES, BS, MEd (Bowling Green State), EdD (Florida). Associate Professor, 2005.
WETZEL, KATHY SHAVER, BS, MA, EdS, EdD (Alabama). Clinical Professor and Associate Dean, 2002.

Emeriti

AGNEW, MARY K., BS (Samford), MA, EdD (Alabama). Assistant Dean Emerita for Administration, Personnel, and Finance, 1977, 1986.
ANDERSON, CARREL M., BA (Abilene Christian), MA, PhD (Alabama). Emeritus of Administration and Educational Leadership, 1972, 1991.
ANDERSON, ROBERT T., BS (Troy State), MS (Auburn), EdD (George Peabody/Vanderbilt). Professor Emeritus of Instructional Leadership, 1969, 1989.
BAKER, TRUMAN D., BSEd, MS (Arkansas State), PhD (Mississippi). Professor Emeritus of Computer Technology, 1968, 1996.
BALENTINE, MARGARET B., BS (North Alabama), MA, EdD (Alabama). Assistant Professor Emerita, 1978, 1996.
BARKER, BARBARA M., BA, MA (Alabama-Birmingham), PhD (Alabama). Professor Emerita of Educational Research, 1973, 1996.
BISHOP, DOROTHEA GRACE, BA (Toronto), MA, EdD (Alabama). Professor Emerita of Curriculum and Instruction, 1964, 1990.
BLACKBURN, J. VERNON, BA, MA (Baylor), MS (Southern Mississippi), PhD (Florida State). Professor Emeritus of Counselor Education, 1965, 1993.
BURRY-STOCK, JUDITH A., BS (Bowling Green), EdM (SUNY-Buffalo), EdS, PhD (Northern Colorado). Professor Emerita of Educational Studies in Psychology, Research Methodology, and Counseling, 1988, 2008.

- CLEINO, EDWARD H., BS (Southeast Missouri State), MA, EdD (George Peabody). Professor Emeritus of Music and Music Education, 1949, 1979.
- COBB, HAZEL B., BA (Benedict), MA (Columbia), EdD (Florida). Professor Emerita of Special Education, 1973, 1994.
- COHEN, SHERYL, BM, MM (Michigan), DMA (Florida State). Professor Emerita of Music Education, 1975, 2004.
- COMAS, ROBERT EDWARD, BA (Mercer), MEd (Duke), PhD (North Carolina). Professor Emeritus of Counseling and Guidance, 1968, 1996.
- CONNOR, HELEN R., BS (Colorado), MA (Western Colorado State), EdD (Oregon). Professor Emerita of Health, Physical Education, and Recreation, 1965, 1985.
- CRUMP, WILLIAM D., BA (Georgia Southern), MEd (Georgia), PhD (George Peabody/Vanderbilt). Professor Emeritus of Special Education, Area Head Emeritus, and Associate Dean Emeritus, 1972, 2000.
- DAANE, C.J., BS, MA, PhD (Michigan State). Professor Emerita of Math Education, 1975, 1988.
- DOLLY, JOHN P., BS (Manhattan), MS (SUNY-Buffalo), EdD (Georgia). Dean and Professor Emeritus of Educational Psychology, 1995, 2007.
- ELLER, BEN F., BS (Michigan), MS, EdD (Tennessee). Professor Emeritus of Educational Psychology, 1985, 1999.
- ESTES, CHARLES R., BS (North Alabama), MS (Mississippi), EdD (Alabama). Professor Emeritus of History and Philosophy of Education, 1967, 1991.
- EVELSIZER, RONALD L., BS, MS (Illinois State), EdD (Alabama). Professor Emeritus of Special Education, 1963, 1990.
- FERGUSON, PATRICK, BS in Ed., MS (Cortland State), EdD (Buffalo). Professor Emeritus of Curriculum and Instruction, 1969, 1991.
- GAMBLE, LANNY R., BS (Auburn), MA, EdD (Alabama). Professor Emeritus of Educational Leadership, 1974, 1993.
- GRIFFIN, ROBERT E., AB, MA (Michigan State), EdD (Illinois). Professor Emeritus of Counselor Education, 1966, 1989.
- HEAD, DAVID W., AB (Birmingham Southern), MA, PhD (Alabama). Associate Professor Emeritus of Counselor Education, 1980, 1998.
- HOLDER-BROWN, LORETA, BSE (Arkansas), MA (George Peabody/Vanderbilt), PhD (Southern Illinois). Professor Emerita of Special Education, 1973, 1994.
- JONES, MERILYN, BME (Montevallo), MA (Alabama), PhD (Florida State). Professor Emerita of Music, 1967, 1994.
- LEE, L. TENNENT, JR., MA (Alabama), EdD (Columbia). Professor Emeritus of Secondary Education and Associate Dean Emeritus for Extended Services, 1945, 1973.
- LEIGH, ROBERT KENNETH T., BA (Baylor), MA (Northwestern), EdD (Houston). Professor Emeritus of Elementary, Reading, and Adult Education, 1969, 1990.
- LELES, SAM, AB, BS, MA (Kent State), PhD (Ohio State). Professor Emeritus of Curriculum and Instruction, 1967, 1989.
- LINKOUS, LUDRICK W., BS (Towson State), MEd (Loyola), PhD (Texas). Professor Emeritus of Special Education, 1967, 1996.
- MCCOLLISTER, FAYE P., BA, MA, EdD (Alabama). Associate Professor Emerita of Special Education, 1990, 1997.
- MCNUTT, JAMES K., BFA, MA (Alabama), PhD (Florida State). Assistant Professor Emeritus of Art Education, 1976, 1996.
- MICKLER, J. ERNEST, AB (Samford), MEd (Tennessee), EdD (Alabama). Professor Emeritus of Behavioral Studies, 1964, 1991.
- MICKLER, MARY LOUISE, BA (Judson), MA (Livingston), EdD (Alabama). Professor Emerita of Administration and Educational Leadership, 1978, 1991.
- MOSELY, JAMES NUNNELLEE, BSEd, MA, EdD (Alabama). Professor Emeritus of Curriculum and Instruction, 1967, 1991.
- PALMER, W. ROSS, BSEd, MEd (Mississippi College), EdD (Florida). Professor Emeritus of Educational Leadership, Policy, and Technology Studies, and of Secondary Curriculum, Teaching, and Learning, 1968, 2004.
- PESEAU, BRUCE A., BA (San Jose State), MA (Sacramento State), PhD (Kentucky). Professor Emeritus of Education, 1972, 1989.
- ROBERTS, MARCUS L., JR., BSEd, BA (Jacksonville State), MA (Alabama), LHD (Mobile). Professor Emeritus of Curriculum and Instruction, 1954, 1987.
- ROGERS, MARY S., BA, MA, PhD (Alabama). Professor Emerita of Curriculum and Instruction, 1969, 1994.
- ROTH, RODNEY W., BS (Bowling Green), MA, PhD (Michigan). Professor Emeritus of Educational Research, 1982, 2004.
- ROUNTREE, BARBARA STARNES, BSEd, MS (Jacksonville State), EdS, EdD (Peabody/Vanderbilt). Associate Professor Emerita of Early Childhood and Elementary Education, 1977, 1995.
- SCHLICHTER, CAROL, BS (Samford), MA, EdD (George Peabody/Vanderbilt). Professor Emerita of Special Education, 1975, 2000.
- SELLERS, CURTIS P., BS (Livingston), MA, EdD (Alabama). Professor Emeritus of Administration and Educational Leadership, 1974, 1988.
- SMITH, JOE F., BS (Union, Tennessee), MEd (Arizona), EdD (Tennessee). Professor Emeritus of Kinesiology, 1975, 2005.
- STEGALL, HUGH H., BS (Livingston), MA, EdD (Alabama). Associate Professor Emeritus of Administration and Educational Leadership, 1978, 1985.
- STEPHENS, GEORGE T., BSEd, MA, EdD (Alabama). Professor Emeritus of Trade and Industrial Education, 1966, 1978.
- STYLES, DAISY M., MA (Alabama). Assistant Professor Emerita of Special Education, 1965, 1976.
- TISDALE, VERA P., BSEd (Troy State), MA (Alabama). Associate Professor Emerita of Vocational Education and Distributive Education, 1965, 1979.
- TOPPINS, ANNE D., BM (Southwestern at Memphis), MA, PhD (Alabama). Associate Professor Emerita of Administration and Educational Leadership, 1977, 1990.
- VOLD, DAVID J., BA (Pacific Lutheran), PhD (Minnesota). Professor Emeritus, 1973, 2000.
- WADE, ARCHIE LEE, BS, (Stillman), MS (West Virginia), EdD (Alabama). Assistant Professor Emeritus, 1970, 2000.
- WELKER, JAMES DOYT, BSEd (Eastern Illinois), MA (Northern Illinois), EdD (Indiana). Professor Emeritus of Curriculum and Instruction, 1969, 1992.
- WESTERFIELD, RAYMOND CARL, BS (Eastern Kentucky), MEd, PhD (Toledo). Professor Emeritus of Professional Studies, 1978, 1999.

COLLEGE OF ENGINEERING

HISTORY AND OBJECTIVES

Engineering instruction was instituted at The University of Alabama in 1837. The College of Engineering was organized as a separate division of the University in 1909. As the original engineering college in the state of Alabama, the College of Engineering has as its mission to:

- provide high-quality undergraduate, graduate, and continuing education in engineering and computer science to prepare our graduates for professional careers, leadership positions, and a lifetime of learning;
- conduct high-quality research programs that will assist in the economic development of the state and nation, will advance the body of knowledge, and will improve the quality of human life;
- serve individual practicing engineers and computer scientists, industry, government, educational entities, and technical societies through professional expertise, active involvement, and availability of facilities.

To accomplish its mission, the College of Engineering offers students an outstanding faculty, accredited engineering and computer science programs, and some of the best facilities in the nation. Numerous research projects offer students opportunities to work with faculty in solving current societal problems and in developing technological resources for the future.

For more information about the College of Engineering and its programs and services, call or write: The University of Alabama, College of Engineering, Box 870200, Tuscaloosa, AL 35487-0200; (205) 348-6400; www.eng.ua.edu.

ACCREDITATION

All of the undergraduate engineering degree programs in the College of Engineering are accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202; (410) 347-7700.

The undergraduate computer science degree program in the College of Engineering is accredited by the Computing Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202; (410) 347-7700.

DEGREES AND PROGRAMS OFFERED

The College of Engineering offers undergraduate programs leading to the bachelor of science degree in aerospace engineering, chemical engineering, civil engineering, computer science, construction engineering, electrical engineering, mechanical engineering, and metallurgical engineering. An option in computer engineering is available in the electrical engineering program. The College offers graduate programs leading to the master of science degree in aerospace engineering, chemical engineering, civil engineering, computer science, electrical engineering, environmental engineering, engineering science & mechanics, mechanical engineering, and metallurgical engineering. The College offers programs leading to the doctor of philosophy degree in the fields of chemical engineering, civil engineering, computer science, electrical engineering, engineering science & mechanics, mechanical engineering, and metallurgical engineering. A PhD in the area of materials science is offered in collaboration with The University of Alabama at Birmingham and The University of Alabama in Huntsville. Students should consult the University of Alabama graduate catalog for information concerning the graduate degree programs.

ADMISSION AND RETENTION REQUIREMENTS

The College of Engineering follows the admission and retention standards set by the University and reserves the right to change policies, procedures, degree requirements, schedules, courses offered, and other standards in light of circumstances that may arise after the publication of this catalog.

ADMISSION AS A FRESHMAN STUDENT

A student who meets the criteria for admission to The University of Alabama as a freshman student is eligible for admission to the College of Engineering. Specific information about these criteria is available from The University of Alabama, Office of Undergraduate Admissions, Box 870132, Tuscaloosa, AL 35487-0132; (205) 348-5666 or toll-free 1-800-933-BAMA in the continental United States.

Entering freshmen may enroll in specific degree programs, or they may enroll as undesignated engineering students. Differences in students' abilities and in the degree of their preparation make it necessary for each student to begin work in chemistry, mathematics, and English at the level determined by placement tests offered by the departments of chemistry, English, and mathematics. Grade points earned in preparatory courses are counted in the grade point average, but hours earned for such courses may not be applied to the requirements for a degree.

ADMISSION AS A TRANSFER STUDENT

A student seeking to transfer to the College of Engineering from another college or university must have an official transcript sent directly to the UA Office of Undergraduate Admissions from each college or university previously attended. A grade point average of "C" (2.0 on a 4.0 scale) or better for all college-level work attempted is required for admission to the University and to the College. Transferred courses will be applied as appropriate to a student's degree program. Courses where a grade of "D" was earned will not be applied if the course is a prerequisite to another course required for the student's degree program. The authority to apply or to deny transferred credit rests with the College.

Transfers from two-year colleges. A maximum of 50 percent of the total number of hours required for an undergraduate degree in the College of Engineering may be taken at two-year colleges and applied toward graduation requirements. All courses for which credit is to be transferred must be of essentially the same quality as the equivalent courses at The University of Alabama.

Transfers from senior colleges and universities. Courses transferred from institutions accredited by ABET will be accepted within the broad limits of the graduation requirements of the College and the University. Students seeking to transfer credit from institutions not accredited by ABET or by a regional or national accrediting agency may be granted transfer credit on a provisional basis. Consult the Director of Engineering Student Services or the UA Office of Undergraduate Admissions for more information.

Transfers from other UA divisions. Students who have earned fewer than 45 semester hours may transfer to the College of Engineering if they satisfy the University of Alabama Scholastic Progress Standard (see the Academic Records and General Academic Policies section of this catalog). A student who has earned 45 or more semester hours must have an overall grade average of at least 2.0 ("C") on a 4.0 scale, and an average of at least 2.0 ("C") on a 4.0 scale for a minimum of 12 semester hours at The University of Alabama. Credit that another division of the University previously accepted for transfer from another institution will be reevaluated by the College of Engineering when a student transfers into the College from within the University.

GENERAL DEGREE REQUIREMENTS AND ACADEMIC POLICIES

The requirements specified in this catalog are intended for all students who begin their college careers during or after the fall of 2010. Students who have begun their careers prior to fall 2010 may choose to complete the requirements outlined in this catalog, but if they do so they must complete all of the requirements listed herein. Students may not choose some requirements from this catalog and some from previous catalogs. If a student does not complete requirements for the undergraduate degree within a period of seven years from the date of admission, the College of Engineering will modify the student's program to bring it into compliance with current degree requirements.

STUDENT RESPONSIBILITIES

1. Each student is expected to select and register for the courses required to satisfy degree requirements; this includes satisfying all prerequisite and corequisite requirements.
2. Each student is expected to pursue successful completion of all courses for which he or she enrolls.
3. Each student is responsible for University and College policies appearing in official documents, including those on the University and College Web sites, that govern academic programs, curricula, courses, and completion of degrees.
4. It is the student's responsibility to make sure that all degree requirements have been met.
5. Each student is expected to maintain a current and accurate mailing address, e-mail address, and phone number with the UA Records Office and respond promptly to all communications from the University and the College.
6. Each student is expected to be familiar with the current academic calendar and meet deadlines for advising, registration, dropping or adding courses, withdrawing from school, etc.
7. Each student is expected to understand the requirements of the College of Engineering Core Curriculum and should consult the core curriculum course listing located online through myBama to determine whether a core curriculum designation is in effect at the time of enrollment in a course.

APPLICATION FOR DEGREE

Each candidate for graduation must submit an application for degree to Engineering Student Services (112 H. M. Comer Hall). Students who expect to complete degree requirements in May can submit their degree applications beginning on October 1 of the previous year. Those who expect to finish their requirements after the Interim term, summer session, or fall semester should submit their applications beginning the previous March. In all cases, an application for degree must be on file in Engineering Student Services no later than the time at which the degree candidate registers for his or her final semester in residence. Students who apply for their degrees after registration for the final semester will not receive their diplomas until the following term.

AUDITING COURSES

Students may register for courses as auditors with the approval of the departments offering the courses. The deadline for registering as a course auditor coincides with the deadline for adding courses at the beginning of each semester. The requirements that auditors are expected to meet in an audited course are left to the discretion of the instructor. Audited courses do not count toward degree requirements.

COMMON FRESHMAN YEAR

All students in the College of Engineering have a common freshman-year experience. As part of this experience, all students must complete five hours of fundamental engineering courses. These five hours consist of ENGR 111, ENGR 131, ENGR 141, ENGR 151 and a one-hour introduction to one of the majors in the College.

COURSE SUBSTITUTION

Occasionally, a student may wish to substitute another course for a required course. All such requests should first be presented via written petition to the student's advisor and department head, who will (1) weigh the merits of course substitution and determine if the content of the proposed course is appropriate as a substitute, and (2) make a recommendation to the Associate Dean for Academic Programs. Decisions on course substitution recommendations will be made by the Associate Dean for Academic Programs.

DOUBLE/SECOND MAJORS

Students seeking a double major must complete the Double/Second Major form located in the Office of Engineering Student Services (112 H.M. Comer Hall). The same academic standards apply to a double/second major as to any other course sequence for a College of Engineering degree. The College of Engineering departmental advisor, as well as the advisor outside the College of Engineering, must approve all courses for the double/second major.

ENGINEERING ALTERNATIVE TO THE STATEWIDE GENERAL STUDIES CURRICULUM

Act 94-202, enacted by the Alabama legislature in 1994, provided equivalency for first- and second-year courses taught by colleges in the state of Alabama. In 1995, engineering educators presented an engineering alternative to the general studies curriculum (GSC) that modified the Act to specific needs of engineering colleges statewide. The engineering alternative was unanimously approved by the statewide Articulation and General Studies Committee in December 1995 and was made a part of GSC. The details of the "College of Engineering Core Curriculum/General Education Requirements" are listed in the "Academic Records and General Academic Policies" section of this catalog.

FREE ELECTIVES

Most college courses may be counted as free electives. An exception for College of Engineering students are the mathematics courses below MATH 125. ROTC credit may be applied with the approval of the student's advisor and department head.

GRADUATION STANDARDS

The following minimum standards of academic achievement must be met by each student who expects to earn a baccalaureate degree from the College of Engineering.

- (a) successfully complete all courses specified in the degree program;
- (b) complete on this campus at least one-half of the work required within the discipline;
- (c) earn at least a "C" average (2.0 on a 4.0 scale) for all work attempted;
- (d) earn at least a "C" average (2.0 on a 4.0 scale) for all work attempted on this campus;
- (e) earn at least a "C" average (2.0 on a 4.0 scale) for all work attempted in his or her professional courses;
- (f) earn at least a "C" average (2.0 on a 4.0 scale) for all work attempted in his or her professional courses on this campus; and
- (g) meet any additional academic requirements of the program offering the degree.

MATHEMATICS

An entering student must enroll in the mathematics course determined by the student's score on the mathematics placement test. A grade of "C-" or higher must be earned in each mathematics course that leads to another course in the sequence that prepares the student to enroll in calculus.

MINORS IN ENGINEERING FOR NON-ENGINEERING MAJORS

Two types of minors in the College of Engineering are available to students enrolled in other divisions of the University. The minors require a minimum of 18 hours in engineering courses. The Type 1 minor is a specialized program in any of the College's engineering disciplines. Course requirements and advising are available from the appropriate department head, who will appoint an advisor for a student desiring this type of minor. The Type 2 minor is a general minor in engineering, which requires a minimum of 18 hours in courses chosen from a list available from the Associate Dean for Academic Programs. The Associate Dean will appoint an advisor for a student pursuing a Type 2 minor.

ONLINE COURSES

College of Engineering students may enroll in online courses through the College of Continuing Studies. An online course with the same course number as a regularly scheduled on-campus course fulfills the same degree requirements as an on-campus course. Further information about online courses is available through the College of Continuing Studies.

PASS/FAIL OPTION

The pass/fail option cannot be exercised for courses that are to be applied to the requirements of an engineering or computer science degree. For further information about the pass/fail option see the "Academic Records and General Academic Policies" section of this catalog.

PREREQUISITES

The College of Engineering requires a grade of "C-" or better be earned in each course that serves as a prerequisite to any course that will be applied toward a student's degree requirements. If a grade of lower than "C-" is received in a course that is a prerequisite, the prerequisite course must be repeated and a grade of "C-" or higher must be earned before enrolling in the subsequent course. In such cases, it is the student's responsibility to make the necessary schedule changes through the drop/add process. These changes should be made prior to the beginning of the next term, and they must be made before the deadline for adding courses. Failure to make the changes on time will result in administrative withdrawal from the course whose prerequisite the student has not fulfilled with a grade of "C-" or higher. A student who is administratively withdrawn from a course after the deadline to add a course may not add a course to replace the course from which he or she was withdrawn.

REGISTRATION

Schedules for faculty advising and other registration information are posted throughout the College of Engineering just prior to and during the registration period for each semester or term. Additional information is available from the director of Engineering Student Services in 112 H.M. Comer Hall and from the departmental offices. All schedules and drop/add forms must be approved by the student's advisor.

REPEATING COURSES

The repetition of courses is governed by the following restrictions:

- In computing the GPA, a grade of "I" (Incomplete) is included as hours attempted with zero grade points earned. A student on probation must remove "I" grades within two weeks of the beginning of classes during his or her next term in residence. Students not on probation must remove "I" grades within four weeks of the beginning of classes during the next term. If the "I" grade was earned in a required course and is not removed, the course must be repeated.
- A record of original and repeat enrollments appears on the student's transcript.
- Each enrollment in a course is included in the cumulative hours attempted and in the computation of grade point averages. However, only the final enrollment may count as credit toward the degree.
- Courses completed with grades of "A," "B," or "C" may not be repeated except on an audit basis.
- Enrollment for credit in a course that is at a lower level than a course the student has already completed for credit with a grade of "A," "B," or "C" is prohibited. For example, a student with credit for MATH 125 with a grade of "A," "B," or "C" may not enroll for credit in MATH 100, MATH 110, MATH 112, MATH 113, MATH 115, MATH 121, or similar courses. This policy also prohibits repeating a course for credit if equivalent transfer credit with a grade of "Pass" has already been awarded.
- Enrollment for credit in a course is not prohibited simply because credit was earned in a higher-numbered course. For example, a student with credit for GES 411 or GES 451 may enroll for credit in GES 255 or GES 257. If students have questions about the interpretation of this policy, they should consult the associate dean for academic programs or the director of Engineering Student Services prior to enrollment.
- Only two repeat attempts, for a total of three attempts, in any course are permitted, unless continuance is authorized by the associate dean for academic programs. Some departments may have more restrictive policies concerning the number of repeat attempts allowed.

TRANSFER CREDIT, ADVANCED PLACEMENT, AND CREDIT BY EXAMINATION

The following policies apply to the transfer of credit by entering transfer students, the transfer of credit that was earned while concurrently enrolled at The University of Alabama, the transfer of credit earned as a transient student at another institution, and the transfer of credit from other divisions of The University of Alabama.

- In order for credit to be transferred, courses completed at other institutions must be equivalent as nearly as possible to courses taught at The University of Alabama.

- In the College of Engineering, grades of "D" will not be admissible if the grade was earned in a course that is a prerequisite to another course required for the student's degree program.
- The maximum amount of credit transferable from two-year institutions is 64 semester hours.

TRANSFERS FROM OTHER UNIVERSITY OF ALABAMA DIVISIONS

Credit that another division of the University previously accepted for transfer from another institution will be reevaluated by the College of Engineering when a student transfers into the College from within the University.

UNDERGRADUATE STUDENTS IN GRADUATE COURSES

Undergraduate students may be permitted to enroll in graduate courses if they have senior standing and "B" or higher averages for work attempted at The University of Alabama.

DEPARTMENT AND PROGRAM REQUIREMENTS

DEPARTMENT OF AEROSPACE ENGINEERING AND MECHANICS (AEM)

Professor Stanley E. Jones
Department Head

Office: 205 Hardaway Hall

The Aerospace Engineering Area of the aerospace engineering and mechanics department is concerned primarily with the design and analysis of vehicles such as aircraft, spacecraft, and missiles that operate at all speeds and altitudes. To design these vehicles, the aerospace engineer must have a broad background that includes knowledge of the flow of gases and liquids; the strength, stiffness and stability of lightweight structures; propulsion systems; guidance and control systems; and the effects of environmental conditions. The Mechanics Area concerns the engineering science that describes the response of solid or fluid bodies to force systems. Virtually all undergraduate engineering students are required to take courses in engineering science and mechanics in preparation for work in their chosen professional areas.

The undergraduate curriculum in the Department of Aerospace Engineering and Mechanics leads to a bachelor of science degree in aerospace engineering and provides a background in the basic sciences, engineering sciences, humanities, applied analysis, and design that enables graduates to take advantage of the many career opportunities in the aeronautical industry, the space program, and related engineering activities. Graduates with suitable academic records are also prepared to pursue advanced degrees in aerospace engineering or mechanics, other related technical areas, and professional areas such as law and medicine.

Taking the Fundamentals of Engineering examination is a departmental requirement for graduation.

Program Objectives

Undergraduate aerospace engineering students are expected to

- have a fundamental knowledge of aerospace structures, flight vehicle dynamics, control, aerodynamics, and aerospace propulsion as a foundation for lifelong learning and engineering practice
- be able to conceptualize, design, and analyze aerospace systems
- be prepared to develop algorithms and to use modern computational/simulation software for solving aerospace engineering problems
- have an understanding of the aerospace industry and an appreciation of its professional responsibilities

Research. A broad-based program of research is being conducted by the faculty of the Department of Aerospace Engineering and Mechanics. Research efforts are concentrated in three areas:

Dynamics and Controls: aeroelasticity, differential game theory, multidisciplinary modeling, navigation and gyroscopes, numerical models, spacecraft dynamics and control, and structural dynamics and control of flexible bodies.

Fluid Mechanics: aerospace propulsion, computational fluid mechanics, experimental aerodynamics, flow control, heat transfer, luminescent sensing, novel LDV and PIV development, transport phenomena, and turbulence modeling.

Solid Mechanics and Structures: advanced composites, elasticity and plasticity, fatigue/fracture mechanics, machine design, material joining, mechanical characterization, MEMS, nondestructive evaluation, nonlinear mechanics, penetration mechanics, photoelasticity, and stress analysis.

Excellent computing and laboratory facilities are available to support these areas of research. Research assistantships are available for undergraduate and graduate students on many of these research projects.

AEROSPACE ENGINEERING CURRICULUM

In addition to maintaining the grade point averages specified by the University and the College of Engineering, aerospace engineering students must earn at least "C" averages in all aerospace engineering courses designated AEM. Deficiencies in the AEM grade average may be overcome only by repeating courses in which grades of "D" or below were previously earned.

The BSAE curriculum is subject to change as circumstances dictate. Contact the AEM department for current curriculum requirements.

FRESHMAN YEAR

First Semester	Hours	
AEM 121/131 Introduction to Aerospace Engineering.....	2	
CH 101 General Chemistry I (N)	4	
EN 101 English Composition I (FC)	3	
ENGR 111 Engineering the Future.....	1	
ENGR 131 Engineering Concepts and Design I.....	1	
MATH 125 Calculus I (MA)	4	
	15	

Second Semester

EC 110 Principles of Microeconomics (SB).....	3	
EN 102 English Composition II (FC)	3	
ENGR 141 Engineering Concepts and Design II.....	1	
ENGR 151 Fundamental Engineering Graphics.....	1	
MATH 126 Calculus II (MA)	4	
PH 105 General Physics with Calculus I (N)	4	
	16	

SOPHOMORE YEAR

First Semester	Hours	
AEM 201 Statics.....	3	
AEM 249 Algorithm Development and Implementation.....	2	
MATH 227 Calculus III (MA)	4	
MATH 237 Applied Matrix Theory (MA)	3	
PH 106 General Physics with Calculus II (N)	4	
	16	

Second Semester

AEM 250 Mechanics of Materials I.....	3	
AEM 251 Mechanics of Materials Laboratory.....	1	
AEM 264 Dynamics.....	3	
AEM 311 Fluid Mechanics.....	3	
ECE 320 Fundamentals of Electrical Engineering.....	3	
MATH 238 Applied Differential Equations I.....	3	
	16	

JUNIOR YEAR

First Semester

AEM 313 Aerodynamics I	3
AEM 314 Aircraft Performance (C)	3
AEM 341 Aerospace Structural Analysis	3
AEM 349 Engineering Analysis	4
ME 215 Thermodynamics I.....	3
	16

Second Semester

AEM 368 Flight Dynamics and Controls	3
AEM 413 Aerodynamics II.....	3
AEM 461 Computational Methods for Aerospace Structures.....	3
History (HI) or social and behavioral sciences (SB) elective.....	3
Humanities (HU), literature (L), or fine arts (FA) elective.....	3

15

SENIOR YEAR

First Semester

AEM 402 Integrated Aerospace Design I	3
AEM 408 Propulsion Systems	3
AEM 468 Flight Dynamics and Controls II.....	3
AEM 495 Aerospace Engineering Seminar (W)	2
Aerospace engineering elective.....	3
Science elective.....	3

17

Second Semester

AEM 404 Integrated Aerospace Design II.....	3
AEM 451 Structural Design and Testing (W)	4
Aerospace engineering elective.....	3
Humanities (HU), literature (L), or fine arts (FA) elective.....	3
History (HI) or social and behavioral sciences (SB) electives.....	3

16

Total: 127 hours

DEPARTMENT OF CHEMICAL AND BIOLOGICAL ENGINEERING (CHE) (CHBE)

Professor Viola L. Acoff
Department Head

Office: 116-E Houser Hall

The BSChE degree is a professional degree that prepares graduates for employment and graduate study in chemical engineering and related fields, as well as entry into professional programs such as medicine, dentistry, law, and business.

Chemical engineers apply economics, chemistry, biology, physics, and mathematics to the design and operation of processes and to the research and development of new materials, processes, and systems. The many and varied issues associated with going from concept to demonstration to operation of processes and equipment all fall within the province of chemical engineering. Chemical engineers are as comfortable with plant operations, research and development projects, synthesis of alternative fuels, energy conservation and conversion, process design, optimization and control, environmental conservation and pollution prevention, as they are with the exciting fundamental studies associated with biotechnology, nanotechnology, electrochemical technology, and other areas yet to be discovered.

The BSChE degree and curriculum place strong emphasis on the basic sciences, but a vital feature remains the high degree of confidence and practical ability gained from laboratory and design courses. Laboratories include equipment needed to study and demonstrate heat, mass, and momentum transfer; material and energy balances; process dynamics and

control; chemical reaction systems including catalysis; and thermodynamics. A full-time technician who is a qualified machinist maintains the laboratories. The **Basics Laboratory** course covers fundamental principles to reinforce the basic courses within the chemical engineering curriculum. The **Unit Operations Laboratory** course contains pilot scale process units and other pieces of equipment that allow students to build, operate and analyze results collected during their operation. The **Chemical and Biological Engineering High Bay Facility** provides state-of-the-art visualization equipment for research and instruction in continuous and batch distillation, and reaction engineering. A high-pressure chemical reaction facility is also available for experimental studies and demonstrations of chemical reactions. Individual faculty member research laboratories give students the opportunity to work one-on-one with faculty in special problems courses.

Design is paramount to an engineering education. It is the salient feature that distinguishes engineering from other professional degree programs. Engineering design is the process of devising a system, component, process, or product to meet desired needs. It is a decision-making process in which the basic sciences, mathematics and engineering sciences are applied to convert resources optimally to meet stated objectives. The **Chemical and Biological Engineering Design** component of this curriculum includes development of student creativity, use of open-ended problems, development and use of modern design theory and methodology, formulation of design problem statements and specifications, consideration of alternative solutions, feasibility analyses, concurrent engineering design, technical research, and detailed system descriptions. The introduction of realistic constraints, such as economic factors, safety, reliability, aesthetics, ethics, and environmental and social impacts, are used to fully develop each design experience.

Program Objectives

Chemical and biological engineering graduates are expected to

- have knowledge of and a sound understanding of fundamentals
- have analysis and problem-solving skills
- have synthesis and design skills
- understand the responsibility to society by integrating global, environmental, and ethical concerns within the engineering functions
- have effective oral and written communication skills
- have teamwork and leadership skills

Special Features

While the baccalaureate degree curriculum contains many courses designed to sequentially introduce students to methodologies for understanding, defining, and solving a broad array of increasingly complex problems, there are elements in the program that also allow students to investigate exciting and challenging issues that often exist at the intersections where engineering and the sciences meet. Some of the elective special program options are described below.

Chemical and Biological Engineering Honors Program. The departmental honors program complements programs offered through UA's Honors College (CBH, IHP). The highlight of the ChBE honors program is a one-hour forum that focuses on emerging topics of interest in the field. In addition to this course, 6 hours of departmental honors course credits may be scheduled through the CHE 498/CHE 499 sequence or as other designated courses. These credits may include one-on-one undergraduate research experiences, co-op- or internship-for-credit experiences, work-study-abroad-for-credit experiences, and courses designed to be taken for joint undergraduate/graduate credit in the Scholars Program leading to advanced degree study. Five additional hours of honors credit must be taken from courses within the ChBE curriculum, and six further hours of honors credits must be earned from any of the University-wide honors programs. The chemical engineering honors courses may, in turn, be used to satisfy the requirements in the University-wide honors program(s) selected. Special recognition for completing these programs is given at the time of graduation.

Eligibility:

- Incoming freshmen: ACT of 28 or better or SAT of 1240 or better
- Transfer students: cumulative college GPA of 3.3 or better and 28 ACT/1240 SAT
- Current UA students: cumulative UA GPA of 3.3 or better

Requirements for Recognition as Graduating with ChBE Honors:

- Completion of the course requirements for the BS degree in Chemical Engineering.
- Maintenance of a 3.30 GPA in all undergraduate coursework:
- Completion of 18 hours of honors coursework:
 - 12 hours in the ChBE curriculum
 - 1 hour of ChBE Honors Forum
 - 6 hours of ChBE-designated courses
 - 5 hours of any courses in the ChBE curriculum
 - 6 hours of additional honors courses from within or outside the ChBE curriculum.

Experiential-based coursework:

- 3 hours must be experience-based, such as undergraduate research, co-op for credit, work internship for credit, undergraduate design, or a research experience at another university (REU).

Examples of Honors Courses Offered in ChBE:

- Independent Research or Design Projects
- ChBE Electives in Polymers, Electronic Materials, Biochemical Engineering, Tissue Engineering, Health and Safety
- Honors Co-operative Education & Internship Experiences.
- ChBE Honors Forum (explore advanced topics such as "Nanotechnology," "Hydrogen Fuel Cells," Engineered Medicine," or "Alternative Energy."

Plan of study, certificates, and minors options. Students are required to explore other areas of personal interest through their **plan of study**. Two courses (6 hours of credit), related in content and/or discipline, must be selected as the two **approved elective blocks** within the plan of study. This provides students with an option to gain knowledge in a "concentration" area that is defined by the student, in consultation with a faculty advisor. A student may add courses to this area using the **advanced science and/or chemical and biological engineering elective courses**.

Undergraduate research options. Many students elect to take special problems (undergraduate research) to gain valuable hands-on experience in laboratory or computational settings with a faculty member. These courses may be used to satisfy elective course requirements when they are designed to meet the requirements of those course blocks. Products from this activity often include opportunities for making presentations at local and national meetings, co-authoring technical papers, or travel to meetings, conferences, or symposia. Research papers may also be prepared for publication in technical journals. This kind of activity is particularly helpful to students who wish to pursue advanced study in chemical engineering or related fields.

Scholars Program. This program administered by the University's Graduate School allows eligible students to prepare for advanced study by enrolling in courses that can concurrently satisfy bachelor of science and master of science (MS) degree requirements. The eligibility requirements may be found in the Special Academic Programs section of this catalog.

Premedical/predental/prelaw options. The baccalaureate degree is a popular study plan for preparation to enter one of the professional programs listed. Acceptance rates for our students are excellent and the preparation that an engineering degree provides makes these tracks a most desired one.

CHEMICAL AND BIOLOGICAL ENGINEERING CURRICULUM

FRESHMAN YEAR

First Semester	Hours
CH 101 General Chemistry I (N)	4
CHE 125 Introduction to Chemical Engineering	1
DR 100 Technical Sketching for Engineers	1
EN 101 English Composition I (FC)	3
GES 131 Foundations of Engineering I.....	2
MATH 125 Calculus I (MA)	4

Second Semester	
BSC 114 Principles of Biology I (N)	3
CH 102 General Chemistry II (N)	4
EN 102 English Composition II (FC)	3
GES 132 Foundations of Engineering II	2
MATH 126 Calculus II (MA)	4
	16

SOPHOMORE YEAR

First Semester	
CH 231 Elementary Organic Chemistry I	3
CHE 254 Chemical Engineering Calculations	4
MATH 227 Calculus III (MA)	4
PH 105 General Physics with Calculus I (N)	4
	15
Second Semester	
CH 232 Elementary Organic Chemistry II	3
CHE 255 Chemical Engineering Thermodynamics (C)	4
MATH 238 Applied Differential Equations I (MA)	3
History (HI) or Social Behavioral Sciences (SB) Elective	3
Humanities (HU), Literature (L), or fine arts (FA) elective	3
	16

JUNIOR YEAR

First Semester	
CHE 304 Fluid Flow Operations	3
CHE 306 Heat Transfer Operations	3
CHE 324 Transport Phenomena (C)	3
Engineering elective (see advisor)	3
History (HI) or social and behavioral sciences (SB) elective*	3
	15
Second Semester	
CHE 223 Chemical Equilibria and Analyses	3
CHE 305 Separation Processes (C)	3
CHE 319 Basic Chemical Engineering Laboratory	2
CHE 354 Chemical Reactor Design	3
CH 237 Organic Chemistry Laboratory I	2
Approved Elective (see advisor)	3
History (HI) or social and behavioral sciences (SB) electives*	3
	16

SUMMER

CHE 320 Operations Laboratory (W)	6
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SENIOR YEAR

First Semester	
CHE 481 Chemical Process Design I	3
CHE 493 Process Dynamics and Control	3
PH 106 General Physics with Calculus II (N)	4
Chemical Engr. Elective (see advisor)	3
Humanities (HU), Literature (L), or fine arts (FA) electives	3
	16

Second Semester	
CHE 482 Chemical Process Design II (W)	3
Advanced science elective (see advisor)	3
Biological elective (see advisor)	3
Approved elective (see advisor)	3
Humanities (HU), literature (L), or fine arts (FA) elective	3
	15

Total: 130 hours

DEPARTMENT OF CIVIL, CONSTRUCTION, AND ENVIRONMENTAL ENGINEERING (CE)

Professor Kenneth Fridley, Department Head
Office: 260 H.M. Comer Hall
Web site: ce.eng.ua.edu

Civil, construction, and environmental engineers design and build the local communities in which we all live and work. They also work globally to make positive change in the world. From planning the public parks in our own neighborhoods to providing clean and safe drinking water to children in refugee camps a world away, from designing and constructing modern sports stadiums to environmentally cleaning up polluted lakes and streams, from creating a new and efficient public transportation networks to developing smart materials for our next generation of infrastructure, civil, construction and environmental engineers are in high demand and make a difference both locally and globally.

The American Society of Civil Engineers (ASCE) states the following vision for civil, construction, and environmental engineers in the year 2025: Entrusted by society to create a sustainable world and enhance the global quality of life, civil engineers serve competently, collaboratively, and ethically as master:

- planners, designers, constructors, and operators of the built environment;
- stewards of the natural environment and its resources;
- innovators and integrators of ideas and technology across the public, private, and academic sectors;
- managers of risk and uncertainty caused by natural events, accidents, and other threats; and
- leaders in discussions and decisions shaping public environmental and infrastructure policy.

Civil, construction, and environmental engineering provides a full breadth of opportunities for those who, for example, dream of designing and constructing structures from roller coasters to skyscrapers, design new water purification and distribution systems that provide clean and safe drinking water, or create tomorrow's safe and sustainable transportation systems to move people and goods efficiently.

The department's comprehensive and flexible set of programs provide students with the knowledge, skills, and attributes necessary to successfully enter the profession and lead exciting, fulfilling careers. Students may choose between two undergraduate majors, the Bachelor of Science in Civil Engineering (BSCE) and the Bachelor of Science in Construction Engineering (BSConE). Additionally, students may elect to supplement their degree with one of the department minors: architectural engineering, civil engineering (for non-civil majors), construction engineering (for non-construction majors), environmental and water resources engineering, structural engineering, and transportation engineering.

Program Objectives

The objectives of The University of Alabama Bachelor of Science in Civil Engineering (BSCE) and Bachelor of Science in Construction Engineering (BSConE) programs are to graduate students who are in demand by employers and graduate programs and who lead fulfilling professional careers through their abilities to: (1) solve fundamental civil or construction engineering problems; (2) articulate their responsibilities to the profession and society; and (3) demonstrate a basic level of achievement in the professional skills needed to practice civil or construction engineering.

Student Learning Outcomes

The BSCE and BSConE student learning outcomes are formulated into three categories: Foundational, Technical, and Professional Practice Outcomes. Graduates of The University of Alabama BSCE and BSConE programs will be able to:

Foundational Outcomes:

F1: Solve problems in mathematics through differential equations, probability and statistics, calculus-based physics, general chemistry, and one additional area of science.

F2: Explain the importance of (1) humanities, literature, and fine arts, and (2) history and social behavior in the professional practice of civil or construction engineering.

Technical Outcomes:

T1: Analyze and solve problems in material science, mechanics of solids, and mechanics of fluids.

*Note: EC 110 is a recommended SB course.

¹Some undergraduates may qualify to enroll in 500-level courses.

T2: Select and conduct program-relevant civil or construction engineering experiments to meet a need, and analyze and evaluate the resulting data.
T3: Apply relevant knowledge, techniques, skills, and modern engineering tools to identify, formulate, and solve engineering problems, including:
For the BSCE – problems in at least four technical areas appropriate to civil engineering.

For the BSConE – problems in construction processes, communications, methods, materials, systems, equipment, planning, scheduling, safety, economics, accounting, cost analysis and control, decision analysis, and optimization.

T4: Explain the impact of historical and contemporary issues on civil or construction engineering, and predict possible impacts of a specific, relatively constrained engineering solution on the economy, environment, and society.

T5: Develop solutions to well-defined project management problems within civil or construction engineering.

T6: Design a system or process in more than one program-relevant civil or construction engineering specialty field to meet desired needs, including sustainability and within other realistic constraints such as economic, environmental, social, political, ethical, health and safety, and constructability.

T7: Explain key aspects of at least one traditional or emerging program-relevant area of advanced specialization.

Professional Practice Outcomes:

P1: Analyze a situation involving multiple conflicting professional, legal, and ethical interests to determine an appropriate course of action.

P2: Organize and deliver effective written, verbal, graphical and virtual communications.

P3: Demonstrate the ability to learn through independent study, without the aid of formal instruction.

P4: Demonstrate attributes supportive of the professional practice of engineering; apply leadership principles to direct the efforts of a small group to solve a relatively constrained problem; and function effectively as a member of a multidisciplinary team to solve open-ended engineering problems.

P5: Explain the importance of licensure, and basic concepts in engineering management, business, law, public administration, public policy, and globalization as related to the professional practice of civil or construction engineering.

All students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation.

CIVIL ENGINEERING CURRICULUM

FRESHMAN YEAR

First Semester	Hours	
CE 121 Intro to Civil, Construction & Environmental Engineering	1	
ENGR 111 Engineering the Future	1	
ENGR 131 Engineering Concepts and Design I	1	
ENGR 151 Fundamentals of Engineering Graphics	1	
MATH 125 Calculus I (MA)	4	
EN 101 English Composition I (FC)	3	
Approved natural science (N) elective ¹	4	

15

Second Semester

ENGR 141 Engineering Concepts and Design II	1
ENGR 171 Large-Scale Engineering Graphics	1
MATH 126 Calculus II (MA)	4
PH 105 General Physics with Calculus I (N)	4
EN 102 English Composition II (FC)	3
History (HI) or social and behavioral sciences (SB) elective ²	3

16

SOPHOMORE YEAR

First Semester

CE 260 Civil and Construction Engineering Surveying	2
AEM 201 Statics	3
MATH 227 Calculus III (MA)	4
CH 101 General Chemistry I (N)	4
Humanities (H), literature (L), or fine arts (FA) elective ²	3

16

Second Semester

CE 262 Civil and Construction Engineering Materials	3
AEM 250 Mechanics of Materials I	3
AEM 264 Dynamics	3
MATH 238 Applied Differential Equations I (MA)	3
PH 106 General Physics with Calculus II (N) or CH 102 General Chemistry II (N)	4

16

JUNIOR YEAR

First Semester

CE 331 Introduction to Structural Engineering (C)	3
CE 340 Geotechnical Engineering	4
CE 350 Highway Design and Construction	3
AEM 311 Fluid Mechanics	3
History (HI) or social and behavioral sciences (SB) elective ²	3

16

Second Semester

CE 320 Introduction to Environmental Engineering	3
CE 366 Introduction to Construction Engineering	3
CE 378 Water Resources Engineering (C)	3
ECE 320 Fundamentals of Electrical Engineering or ME 216 Thermal Engineering Survey	3
History (HI) or social and behavioral sciences (SB) elective ²	3

15

SENIOR YEAR

First Semester

Senior (plan of study) electives ³	9
COM 123 Public Speaking (HU) ²	3
GES 255 Engineering Statistics I	3

15

Second Semester

CE 401 Civil Engineering Project – Site Development (C,W) or CE 403 Civil Engineering Project – Building Design (C,W)	4
Senior (plan of study) electives ³	9
Humanities (H), literature (L), or fine arts (FA) elective ²	3

16

Total: 125 hours

¹ Approved natural science (N) electives include: BSC 114/BSC 115, GEO 101, GEO 102, GEO 105, GY 101, and GY 102.

² A 6-hour sequence in either HI/SB or HU/L/FA core classes is required. Students are encouraged to consider EC 110 as an SB, CE 220 as an SB, and/or a foreign language as an HU.

³ Senior (plan of study) electives must be CE courses numbered 400 or above or other approved electives. Other courses may be approved by petition. At least 6 hours of the senior electives must be "design-designated" courses. In addition, not more than two senior electives may "professional practice" courses, including any non-civil engineering courses. See the department for list of approved senior design electives, including approved design-designated (D), professional practice (P), and general technical (G) electives.

All civil engineering students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation. A graduate of the program who has passed the FE exam would then be an Engineer Intern under Model Law as maintained by the National

Council of Examiners for Engineering and Surveying (www.ncees.org). It is recommended that the FE be taken the semester prior to graduation.

Related department policies and updates of catalog information are posted on the department Web site (ce.eng.ua.edu) and message boards.

CONSTRUCTION ENGINEERING CURRICULUM

FRESHMAN YEAR

First Semester	Hours
CE 121 Intro to Civil, Construction & Environmental Engineering	1
ENGR 111 Engineering the Future	1
ENGR 131 Engineering Concepts and Design I	1
ENGR 151 Fundamentals of Engineering Graphics	1
MATH 125 Calculus I (MA)	4
EN 101 English Composition I (FC)	3
Approved natural science (N) elective ¹	4
	15

Second Semester

ENGR 141 Engineering Concepts and Design II	1
ENGR 171 Large-Scale Engineering Graphics	1
MATH 126 Calculus II (MA)	4
PH 105 General Physics with Calculus I (N)	4
EN 102 English Composition II (FC)	3
History (HI) or social and behavioral sciences (SB) elective ²	3
	16

SOPHOMORE YEAR

First Semester	
CE 260 Civil and Construction Surveying.....	2
AEM 201 Statics	3
MATH 227 Calculus III (MA)	4
CH 101 General Chemistry I (N)	4
Humanities (H), literature (L), or fine arts (FA) elective ²	3
	16

Second Semester

CE 262 Civil and Construction Engineering Materials	3
AEM 250 Mechanics of Materials I	3
AEM 264 Dynamics	3
MATH 238 Applied Differential Equations I (MA)	3
PH 106 General Physics with Calculus II (N) or CH 102 General Chemistry II (N)	4
	16

JUNIOR YEAR

First Semester	
CE 366 Introduction to Construction Engineering	3
CE 340 Geotechnical Engineering	4
CE 331 Introduction to Structural Engineering (C)	3
Engineering systems elective ³	3
History (HI) or social and behavioral sciences (SB) elective ²	3
	16

Second Semester

CE 463 Construction Cost Estimating	3
CE 462 Vertical Construction Methods	3
CE 418 Engineering Management	3
Engineering systems elective ³	3
Humanities (H), literature (L), or fine arts (FA) elective ²	3
	15

Summer Term

CE 469 Construction Internship ⁴	3
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SENIOR YEAR

First Semester

CE 468 Construction Scheduling (W).....	3
CE 461 Horizontal Construction Methods	3
GES 255 Engineering Statistics I	3
Senior (plan of study) elective ⁵	3
COM 123 Public Speaking (HU).....	3
	15

15

Second Semester

CE 402 Construction Engineering Project – Site Development (C,W) or CE 404 Construction Engineering Project – Building Design (C,W) ..	4
CE 464 Safety Engineering	3
Senior (plan of study) electives ⁵	6
History (HI) or social and behavioral sciences (SB) elective ²	3

16

Total: 128 hours

¹ Approved natural science (N) electives include: BSC 114/BSC 115, GEO 101, GEO 102, GEO 105, GY 101, and GY 102.

² A 6-hour sequence in either HI/SB or HU/L/FA core classes is required. Students are encouraged to consider EC 110 as an SB, CE 220 as an SB, and/or a foreign language as an HU.

³ Students must complete 6 hours of systems electives choosing from: ECE 320 Fundamentals of Electrical Engineering, ME 216 Thermal Engineering Survey, and AEM 311 Fluid Mechanics.

⁴ Please see an advisor prior to enrolling. Co-op experience may be substituted with prior approval. See an advisor for additional information.

⁵ Senior (plan of study) electives must include at least one course (3 credit hours) in project management (PM) and at least one course (3 credit hours) in design (CD); one course may be a general technical elective (GT). See the department for a list of approved electives including approved project management (PM), design (CD), and general technical (GT) electives.

All construction engineering students are strongly encouraged to prepare for and pass the Fundamentals of Engineering (FE) examination prior to graduation. A graduate of the program who has passed the FE exam would then be an Engineer Intern under Model Law as maintained by the National Council of Examiners for Engineering and Surveying (www.ncees.org). It is recommended that the FE be taken the semester prior to graduation.

Related department policies and updates of catalog information are posted on the department Web site (ce.eng.ua.edu) and message boards.

DEPARTMENTAL HONORS PROGRAM

The Department of Civil, Construction, and Environmental Engineering offers an undergraduate honors program for students who seek to be challenged by both independent and team projects, and who wish to receive additional distinction with their undergraduate degrees. This individually tailored program culminates with awarding of a Department Honors Certificate and recognition at the Honors Day Ceremony in the student's senior year.

Requirements for the Bachelor of Science in Degree with Honors

The requirements for the Bachelor of Science in Civil Engineering with honors and the Bachelor of Science in Construction Engineering with honors are as follows:

a) Completion of the course requirements for the BS degree in civil engineering or construction engineering

b) Maintenance of a 3.30 GPA in all civil engineering courses, as well as a 3.30 overall GPA in all undergraduate coursework

c) Completion of 12 hours of approved civil engineering courses using honors credit by contract. The professor and the honors student enter a contract by which the student agrees to additional work to receive honors credit. The following courses are guaranteed available for honors by contract:

CE 260 Civil and Construction Surveying

CE 320 Introduction to Environmental Engineering

CE 366 Introduction to Construction Engineering

CE 378 Water Resources Engineering

CE 433 Reinforced Concrete Structures

While the above courses are available for the Departmental Honors Program, they are not required. Other CE courses are available and can be included as part of the required 12 hours of honors credit by contract.

Courses other than those listed above taken for honors credit require instructor and departmental approval. Student should contact the instructor for availability.

d) Completion of an honors undergraduate thesis. Students must work directly with a department faculty member on a problem of common interest. Credit for the thesis work is given through completion of 3 credit hours of the following course: CE 491 Special Problems (honors thesis). Credit for the honors thesis also is accepted as a CE elective within the civil or construction engineering curriculum.

Students enrolled in the Civil, Construction, and Environmental Engineering Departmental Honors Program are encouraged also to participate in one of the three University-wide honors programs (University Honors Program, Computer-Based Honors Program, and International Honors Program).

Students interested in the Civil, Construction, and Environmental Engineering Departmental Honors Program should contact the department office or their academic advisors for further details.

DEPARTMENT MINORS AND CERTIFICATES

The department offers a suite of minors and certificate programs. For additional information regarding any of the minors or certificates offered by the department, please contact the Department of Civil, Construction, and Environmental Engineering, Room 260 H.M. Comer Hall, (205) 348-6550. Related department policies and updates of catalog information are posted on the department Web site (ce.eng.ua.edu) and message boards.

Requirements for the Minor in Architectural Engineering

The minor in architectural engineering requires a minimum of 22 hours of coordinated coursework in civil engineering.

Required Coursework (10 hours):

- CE 331 Introduction to Structural Engineering (3 hours)
- CE 366 Project Management and Economics (3 hours)
- CE 403 Civil Engineering Project – Building Design
or CE 404 Construction Engineering Project – Building Design (4 hours)

Approved Electives (minimum of 12 hours) representing coursework in at least two of the following areas: structural engineering and design, building mechanical systems, and/or construction engineering and management. Please see an advisor for a list of approved electives. Other courses may be approved by petition.

Requirements for the Minor in Civil Engineering

The minor in civil engineering requires a minimum of 21 hours of coordinated coursework in civil engineering.

Required Coursework (select five of six courses; 15 hours minimum):

- CE 320 Introduction to Environmental Engineering (3 hours)
- CE 331 Introduction to Structural Engineering (3 hours)
- CE 340 Geotechnical Engineering (4 hours)
- CE 350 Highway Design and Construction (3 hours)
- CE 366 Introduction to Construction Engineering (3 hours)
- CE 378 Water Resources Engineering (3 hours)

Approved Electives (minimum of 6 hours): Please see an advisor for a list of approved civil engineering electives. Other courses may be approved by petition.

Requirements for the Minor in Construction Engineering

The minor in construction engineering requires a minimum of 21 hours of coordinated coursework, including a 3-hour internship designed to provide practical, on-the-job experience prior to graduation.

Required Coursework (12 hours):

- CE 366 Project Management and Economics (3 hours)
- CE 464 Safety Engineering (3 hours)
- CE 467 Construction Administration and Finance (3 hours)
- CE 469 Construction Internship (3 hours)

Approved Electives (minimum of 9 hours): Please see an advisor for a list of approved construction engineering electives. Other courses may be approved by petition.

Requirements for the Minor in Environmental and Water Resources Engineering

The minor in environmental and water resources engineering requires a minimum of 21 hours of coordinated coursework as follows:

Required Coursework (12 hours):

- CE 320 Introduction to Environmental Engineering (3 hours)
- CE 378 Water Resources Engineering (3 hours)
- CE 422 Solid and Hazardous Waste Management (3 hours)
- CE 425 Air Pollution (3 hours)

Approved Electives (minimum of 9 hours): Please see an advisor for a list of approved environmental and water resources electives. Other courses may be approved by petition.

Requirements for the Minor in Structural Engineering

The minor in structural engineering requires a minimum of 15 hours of coordinated coursework as follows:

Required Coursework (12 hours):

- CE 331 Introduction to Structural Engineering (3 hours)
- CE 432 Advanced Structural Analysis (3 hours)
- CE 433 Reinforced Concrete Structures I (3 hours)
- CE 434 Structural Steel Design I (3 hours)

Approved Electives (minimum of 3 hours): Please see an advisor for a list of approved structural engineering electives. Other courses may be approved by petition.

Requirements for the Minor in Transportation Engineering

The minor in transportation engineering requires a minimum of 21 hours of coordinated coursework as follows:

Required Coursework (9 hours):

- CE 350 Introduction to Transportation Engineering (3 hours)
- CE 451 Geometric Design of Highways (3 hours)
- CE 458 Traffic Engineering (3 hours)

Approved Electives (minimum of 12 hours): Please see an advisor for a list of approved transportation engineering electives. Other courses may be approved by petition.

Requirements for the Environmental Engineering Certificate

Engineering students may earn the certificate in environmental engineering in addition to their Bachelor of Science degree. Students must complete 12 hours of environmental engineering courses from an approved list. Many of these courses are commonly acceptable for credit toward the BS degree; however, of the 12 hours, at least 6 must be in addition to the BS degree requirements. Please see an advisor for a list of approved environmental engineering certificate courses. Other courses may be approved by petition.

Requirements for the Construction Management Certificate

The certificate in construction management is primarily designed for non-engineering majors. The certificate is noted on transcripts and is awarded to students who complete 12 hours of construction management courses from the approved list. Many of these courses may be acceptable for credit toward the degree; however, of the 12 hours, at least 6 must be in addition to the student's bachelor degree requirements. Please see an advisor for a list of approved environmental engineering certificate courses. Other courses may be approved by petition.

DEPARTMENT OF COMPUTER SCIENCE (CS)

Professor David W. Cordes
Department Head

Office: 101 Houser Hall

Computer science is a multifaceted discipline that encompasses a broad range of topics. At one end of the spectrum, computer science focuses on the theoretical capabilities of computers and on the properties of various general problems and algorithms. At the other, applications-oriented end of the spectrum, computer science deals with techniques for the design and construction of machines and with advanced applications of computers in all aspects of our society. Graduates of the program will be prepared for admission to graduate study or for immediate employment in business, industry, or government positions involving computer systems and techniques.

Program Objectives

The mission of the department's undergraduate degree program is to provide a broad-based, high-quality education in computer science. Our program should provide its graduates with a body of knowledge and an attitude toward learning that will enable them to contribute positively to the profession, and ultimately, to society itself. In order to accomplish this task, we must provide an academic experience that is sufficiently rich in both theory and practice to ensure the development of fundamentally sound, skilled graduates. Specifically, we must put into place a continuously improving program of study that ensures our students possess

- a solid foundation in the core areas of computer science
- a thorough grounding in the theoretical foundations of the discipline
- competence in modern programming languages and systems
- an organized approach to problem analysis and solution design, based on scientific method
- the ability to speak and write effectively, thus permitting them to communicate their knowledge to others
- an appreciation for the ethical and social implications of their work and for the discipline as a whole
- a commitment to lifelong learning

Requirements for the minor in computer science. The department offers two distinct minor programs, each designed to meet the needs of a particular set of students. These minors include (1) a science-based minor in computer science that focuses on the fundamentals of the discipline; and (2) a minor in computing technology and applications that emphasizes the use of computing technology in today's workplace.

A minor in computer science requires 18 hours, including CS 121, 150, 160, 250, 260, 315, 350/351/352, and 360. Students considering graduate work in computer science are encouraged to take the required 400-level courses within the major.

A minor in computing technology and applications requires 18 hours, including CS 102, CS 466, and any four other CS courses totaling 12 hours.

Minors for computer science majors. A minor is not required for students majoring in computer science. However, we strongly encourage all students to combine their individual interests with the free electives in the program to complete a minor in an area of interest to them. For example, computer science majors may earn a minor in mathematics by completing the mathematics courses required by the computer science curriculum plus MATH 227 and one additional math course numbered 300 or above, such as MATH 355.

Computer Science Curriculum

FRESHMAN YEAR

First Semester	Hours
CS 121 The Discipline of Computing.....	1
CS 150 Programming I.....	2
CS 160 Computer Science Concepts.....	1
EN 101 English Composition I (FC).....	3
ENGR 111 Engineering the Future.....	1
ENGR 131 Engineering Concepts & Design I.....	1
MATH 125 Calculus I (MA).....	4

Second Semester

CS 250 Programming II (C)	2
CS 260 Foundations of Computer Science	3
EN 102 English Composition II (FC).....	3
ENGR 141 Engineering Concepts & Design II	1
ENGR 151 Fundamental Engineering Graphics or ART 131 Design II (3 hours).....	1
MATH 126 Calculus II (MA)	4

14

SOPHOMORE YEAR

First Semester

CS 350 or 351 or 352 Programming III (C).....	2
ECE 380 Digital Logic.....	4
MATH 301 Discrete Mathematics (MA)	4
History (HI) elective	3
Fine arts (FA) elective.....	3

16

Second Semester

CS 315 Software Engineering	3
CS 360 Data Structures & Algorithm Analysis (C)	4
ECE 383 Microcomputers (C).....	4
Literature (L) elective.....	3

14

JUNIOR YEAR

First Semester

CS 403 Programming Languages	3
CS 475 Formal Languages.....	3
GES 255 Engineering Statistics I or ST 450 Statistical Methods in Research I	3
Approved natural science (N) elective ¹	4
Free elective ⁴	3

16

Second Semester

CS 426 Introduction to Operating Systems	3
CS 457 Database Management Systems (W).....	3
MATH 237 Applied Matrix Theory	3
Complete the sequence of HI or L electives ²	3
Free elective ⁴	3

15

SENIOR YEAR

First Semester

CS 495 Capstone Computing (W) ³	3
Computer science elective, 400 level	3
Approved natural science (N) elective ¹	4
Three hours of core curriculum courses, depending on the sequence chosen above, either history (HI) or literature (L):	
a) If you chose the HI sequence, this course must be HU/L/FA.	3
b) If you chose the L sequence, this course must be HI/SB.....	3
Free elective ⁴	3

16

Second Semester

Computer science elective, 400 level	3
Approved natural science (N) elective ¹ (must complete a sequence when paired with either of the two N electives previously chosen)	4
History (HI) or social and behavioral sciences (SB) elective	3
Free electives ⁴	6

16

Total: 120 hours

¹Approved natural science (N) electives must be chosen from "majors" courses. Potential courses include: AY 101/102, AY 203/204, BSC 114/115, BSE 116/117, CH101 or 117, CH 102 or 118, GEO 101, GEO 102, GEO 105, GY 101, GY 102, PH 105 or 125, and PH 106 or 126.

²Students must complete a sequence in either history (HI) or literature (L).

³Students may substitute CS 499 (undergraduate research experience) for the capstone project course upon advisor approval.

⁴Free electives may be chosen from any course offered at UA, with the exception of CS 102 and Math courses lower than MATH 125.

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING (ECE)

Professor Jeff Jackson
Department Head

Office: 101 Houser Hall

Electrical engineering, the largest of the engineering fields, is the application of mathematics, sciences, and electrical and electronic technologies to the needs of society. This broad and diverse discipline touches almost every aspect of people's lives and occupations, from communication systems such as cellular phones, radio, television, and the Internet to computer systems, including personal computers, and the hidden processors that control automobiles and household appliances.

Electrical and computer engineering at The University of Alabama offers programs in traditional electrical engineering and in computer engineering. Electrical engineering students get deeply involved in technical areas including: communication systems, computers, control systems, electromagnetics, electronics and microelectronics, power systems, and signal processing. Students in the computer engineering option specialize in the software and hardware components of modern computing systems. The programs provide a sound foundation for entry into the engineering profession, and opportunities for graduates are extensive, often depending only on the interests of the individual. Graduates work in most industries, including the computer, telecommunications, power, aerospace, manufacturing, defense, and electronics industries. They design high-tech devices ranging from tiny microelectronic chips to powerful computers that utilize those chips to efficient telecommunication systems that interconnect those computers. They design and operate a wide array of complex technological systems, such as power generation and distribution systems and modern computer-controlled manufacturing plants. They are also involved in sales, marketing, testing, quality control, and research. With additional training, they may even contribute in other professions, including education, medicine, and law.

Program Educational Objectives and Program Outcomes

The mission of the undergraduate electrical engineering and computer engineering programs is to provide high-quality and broad-based education in electrical engineering or computer engineering that emphasizes critical thinking and communication skills and prepares graduates for professional careers and a lifetime of learning. The faculty has adopted the program educational objectives listed below for the electrical and computer engineering undergraduate programs. The department has included a process to provide continual improvement of the curricula. Graduates will:

1. Excel in engineering careers and/or postgraduate education utilizing knowledge of electrical or computer engineering disciplines and underlying fundamental principles of science and mathematics, engineering analysis, problem solving and design.
2. Expand their knowledge of current and emerging issues in electrical and computer engineering and continue career-long professional development through engagement in lifelong learning.
3. Grow professionally and advance throughout their engineering careers utilizing skills in effective communication; responsible, multidisciplinary teamwork; and adherence to principles of professional accountability and ethics.

To facilitate attainment of these career-long objectives, the department has defined a set of program outcomes and associated assessments to demonstrate that, by graduation, students have:

- An ability to apply knowledge of mathematics, science, and engineering necessary to analyze and design electrical and electronic devices, software, and systems containing hardware and software components, as appropriate to program objectives.
- An ability to design and conduct experiments, as well as analyze and interpret data.

- An ability to design a system, component, or process to meet desired needs.

- An ability to function on multidisciplinary teams.

- An ability to identify, formulate, and solve engineering problems.

- An understanding of professional and ethical behavior.

- An ability to communicate effectively in oral, written, and graphical formats.

- The broad education necessary to understand the impact of electrical or computer engineering solutions in a global, societal, and environmental context consistent with the principles of sustainable development.

- A recognition for the need for and an ability to engage in lifelong learning.

- A knowledge of contemporary issues.

- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

- Knowledge of probability and statistics, specifically applied to problems in electrical or computer engineering.

- For electrical engineering graduates, knowledge of advanced mathematics, typically including differential equations, linear algebra, complex variables, and discrete mathematics. For graduates with the computer engineering option, knowledge of discrete mathematics.

The following paragraphs describe the undergraduate curricula in electrical engineering and computer engineering. Graduate students and students participating in the Scholars Program should consult the graduate catalog for information on all cross-listed and graduate-only courses. More information about various programs within the department is available in the Electrical and Computer Engineering office.

Electrical Engineering Curriculum

The overall goal of the electrical engineering program is to prepare students for engineering careers within the discipline. The first year and a half of the electrical engineering curriculum includes basic courses in mathematics and physical science, broadening courses in humanities and social science, and foundation courses in engineering. The next three semesters provide the core education in electrical engineering, with courses in computers, electronics, circuits, systems, and electromagnetics. The last year of study includes technical electives to allow students to concentrate in selected areas of the discipline. For seniors, the department offers advanced courses in computers, communication, control, electromagnetics, microelectronics, materials, and power.

Students must select two electrical engineering electives with labs. The elective areas are computers, microelectronics, electromagnetics, power systems, communication systems, and control systems. Materials that describe each area are available in the Department of Electrical and Computer Engineering office.

FRESHMAN YEAR

First Semester	Hours
CH 101 General Chemistry I (N) .....	.4
DR 100 Engineering Sketching.....	1
EN 101 English Composition I (FC)	3
GES131 Foundations of Engineering I.....	2
History (HI) or social and behavioral sciences (SB) elective ^{1,3}	3
MATH 125 Calculus I (MA) .....	.4
	17

Second Semester

ECE 125 Fundamentals of Electrical and Computer Engineering.....	2
EN 102 English Composition II (FC)	3
Humanities (HU), literature (L), or fine arts (FA) elective ^{1,3}	3
MATH 126 Calculus II (MA)	4
PH 105 General Physics with Calculus I (N).....	4

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SOPHOMORE YEAR

First Semester	Hours
CS 160 Computer Science Concepts.....	1
ECE 285 Programming for ECE	3
MATH 227 Calculus III (MA)	4

MATH 237 Applied Matrix Theory (MA).....	3
PH 106 General Physics with Calculus II (N).....	4
	15

Second Semester

CS 351 Computer Science Programming III	2
ECE 225 Electric Circuits.....	3
ECE 380 Digital Logic.....	4
MATH 238 Applied Differential Equations I (MA).....	3
PH 253 Introduction to Modern Physics (N).....	3
	15

JUNIOR YEAR

First Semester

ECE 332 Electronics I (W).....	4
ECE 370 Signals and Systems (C).....	3
ECE 383 Microcomputers (C)	4
MATH 355 Theory of Probability.....	3
PH 301 Mechanics.....	3
	17

Second Semester

ECE 326 Electric Networks.....	3
ECE 333 Electronics II (W).....	4
ECE 340 Electromagnetics.....	4
ECE 350 Electric Power and Machines.....	3
Humanities (HU), literature (L), or fine arts (FA) elective ^{1,3}	3
	17

SENIOR YEAR

First Semester

ECE 492 Capstone Design I.....	3
Electrical engineering elective with laboratory.....	4
Electrical engineering elective with laboratory.....	4
History (HI) or social and behavioral sciences (SB) elective ^{1,3}	3
Humanities (HU), literature (L), or fine arts (FA) elective ^{1,3}	3
	17

Second Semester

ECE 494 Capstone Design II.....	3
Electrical engineering elective.....	3
Electrical engineering elective.....	3
History (HI) or social and behavioral sciences (SB) elective ^{1,3}	3
Professional elective ²	3
	15

Total: 129 hours

¹ Students must satisfy the College of Engineering in-depth requirement (minimum of 6 hours in one discipline).

² The professional elective must be chosen from the list approved by the Department of Electrical and Computer Engineering.

³ The College of Engineering core curriculum requires a minimum of: 9 hours of HU, L, or FA courses; 9 hours of HI or SB courses; 6 hours of FC courses; 6 hours of W courses (300 and 400-level ECE courses); 12 hours of N courses (8 hours of calculus-based physics); 12 hours of MA courses (MATH 125 or higher); 6 hours of C or FL courses.

Computer Engineering Option in Electrical Engineering

The computer engineering option is offered within the electrical engineering department in order to give students a broad knowledge of the software and hardware components of modern computing systems, detailed computer-systems design, and the role of computer systems in various engineering disciplines. A primary goal of the program is to prepare the student for a computer-oriented engineering career with emphasis on computer applications within various subdisciplines of electrical engineering. The computer engineering option includes a broad spectrum of electrical engineering and computer science courses, as well as electives to allow

the student to study a specific area in depth and to gain additional design experience. Areas of specialization may include computer architecture, integrated circuit design, microprocessor-based systems, sensor networks, image processing, robotics, and applications-oriented study in other disciplines of electrical engineering.

FRESHMAN YEAR

First Semester	Hours
CH 101 General Chemistry I (N)	4
DR 100 Engineering Sketching.....	1
EN 101 English Composition I (FC)	3
GES 131 Foundations of Engineering I.....	2
History (HI) or social and behavioral sciences (SB) elective ^{1,4}	3
MATH 125 Calculus I (MA).....	4
	17

SOPHOMORE YEAR

First Semester	
CS 160 Computer Science Concepts.....	
ECE 285 Programming for ECE.....	
MATH 227 Calculus III (MA).....	
MATH 237 Applied Matrix Theory (MA).....	
PH 105 General Physics with Calculus I (N).....	
	15

Second Semester

CS 260 Foundations of Computer Science	3
ECE 225 Electric Circuits.....	3
ECE 380 Digital Logic.....	4
MATH 238 Applied Differential Equations I (MA).....	3
MATH 355 Theory of Probability.....	3
	16

JUNIOR YEAR

First Semester	
ECE 332 Electronics I (W).....	
ECE 370 Signals and Systems (C).....	
ECE 383 Microcomputers (C)	
History (HI) or social and behavioral sciences (SB) elective ^{1,4}	
MATH 301 Discrete Mathematics.....	
	17

Second Semester

CS 351 CS Programming III.....	2
CS 360 Data Structures and Algorithm Analysis (C).....	4
ECE 326 Electric Networks.....	3
ECE 333 Electronics II (W).....	4
Humanities (HU), literature (L), or fine arts (FA) elective ^{1,4}	3
	15

SENIOR YEAR

First Semester
ECE 480 Digital Systems Design.....
ECE 481 Digital Systems Design Laboratory.....

ECE 492 Capstone Design I.....	3
Professional elective ²	3
Restricted-area elective ³	3
Restricted-area elective ³	3
	16
Second Semester	
ECE 484 Computer Architecture.....	3
ECE 486 Embedded Systems.....	3
ECE 487 Embedded Systems Laboratory.....	1
ECE 494 Capstone Design II.....	3
History (HI) or social and behavioral sciences (SB) electives ^{1,4}	3
Humanities (HU), literature (L), or fine arts (FA) elective ^{1,4}	3
	16
Total: 128 hours	

¹ Students must satisfy the College of Engineering in-depth requirement (minimum of 6 hours in one discipline).

² The professional elective must be chosen from the list approved by the Department of Electrical and Computer Engineering.

³ The restricted-area elective must be chosen from the list approved by the Department of Electrical and Computer Engineering.

⁴ The College of Engineering core curriculum requires a minimum of: 9 hours of HU, L, or FA courses; 9 hours of HI or SB courses; 6 hours of FC courses; 6 hours of W courses (300 and 400-level ECE courses); 12 hours of N courses (8 hours of calculus-based physics); 12 hours of MA courses (MATH 125 or higher); 6 hours of C or FL courses.

DEPARTMENT OF MECHANICAL ENGINEERING (ME)

Professor Robert P. Taylor
Department Head
Office: 290 Hardaway Hall

Professor Beth A. Todd
Coordinator for Undergraduate Programs
Office: 290 Hardaway Hall

Mechanical engineering is the most versatile of all engineering programs. Mechanical engineers pursue careers in a wide variety of industries, research laboratories, educational activities, and government agencies. Mechanical engineering graduates can become involved in research, design, and management in industries such as aerospace, automotive, energy conservation, precision engineering, railroad, heavy machinery, manufacturing, food/forest products, textiles, paper, consumer appliances, robotics, nuclear and fossil power plants, electronics, computer automation, agriculture, heating and air-conditioning, construction, transportation, and mining. A significant number of mechanical engineering graduates use mechanical engineering as the foundation for careers in business administration, law, medicine, and other professions. Many graduates are also accepted for advanced study in mechanical engineering, biomedical engineering, medicine, law, business administration, and dentistry.

Program Objectives

Members of the next generation of mechanical engineers are being equipped to meet the technological challenges of the profession. Out of a commitment to continuously improve the undergraduate curriculum for the mechanical engineering program, the faculty of the Department of Mechanical Engineering has adopted several educational objectives. The following objectives define the early-career accomplishments that the mechanical engineering program is designed to prepare graduates to pursue:

1. Our graduates will contribute to the profession in ways that benefit society
2. Our graduates will be expected to follow one of two career paths: technical or management. We expect them to have sufficient career and professional accomplishments within five to 10 years of graduation to be considered as either an engineering expert or a leader/manager

3. Our graduates will continue to grow in expertise and knowledge by participating in activities that enhance professional development in their career path

Program Outcomes

At the time of graduation mechanical engineering graduates are expected to have demonstrated the following outcomes:

- a1) an ability to apply knowledge of mathematics, science, and general engineering
- a2) an ability to apply knowledge of mechanical engineering
- b) an ability to design and conduct experiments, as well as to analyze and interpret data
- c) an ability to design a system, component, or process to meet desired needs
- d) an ability to function on multi-disciplinary teams
- e) an ability to identify, formulate, and solve engineering problems
- f) an understanding of professional and ethical responsibility
- g) an ability to communicate effectively
- h) the broad education necessary to understand the impact of engineering solutions in a global and societal context
- i) a recognition of the need for, and an ability to engage in, lifelong learning
- j) a knowledge of contemporary issues
- k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- l) knowledge of chemistry and calculus-based physics with depth in at least one
- m) ability to apply advanced mathematics through multivariate calculus and differential equations
- n) familiarity with statistics and linear algebra
- o) the ability to work professionally in both thermal and mechanical systems areas including design and realization of such systems
- p) knowledge of conventional and modern manufacturing methods and materials

Mechanical Engineering Honors Program. The Mechanical Engineering Honors Program is part of the College of Engineering Honors Programs and is designed to provide an enhanced academic experience for highly motivated, high-achieving students. The program develops problem-solving, critical-thinking, and communication skills through a mentored experience-based activity. Research is particularly encouraged. Students completing the ME Honors Program will be awarded a certificate and recognized at the Honors Day ceremony in the student's senior year. Details can be found on the departmental Web site, <http://me.eng.ua.edu/>, under the undergraduate program link.

Five-year BSME/MSME. The department participates in the University Scholars Program (discussed elsewhere in this catalog) where a student who meets the qualifications as an honors student can apply to graduate school after the junior year and pursue the BS and MS simultaneously.

Undergraduate Research Program. The purpose of the Supplemental Undergraduate Research Experience (SURE) program in the Department of Mechanical Engineering is to provide our students with an enhanced educational experience. This is achieved by teaming the student with a faculty mentor who will work with and guide the student as he/she completes a structured research project. Participation in the SURE Program will:

- sharpen the student's critical thinking skills,
- enhance the student's ability to apply engineering analysis techniques,
- improve the student's ability to communicate technical information,
- increase the student's confidence in his/her engineering skills, and
- provide exposure to the graduate-level research environment.

Details can be found on the departmental Web site, <http://me.eng.ua.edu/>, under the undergraduate program link.

Cooperative Education. Many mechanical engineering students participate in the cooperative education program. This is an academic program where students alternate work terms in an engineering environment in industry with full-time terms of coursework. Co-op can greatly enhance your academic experience and employment opportunities. Co-op is discussed in detail elsewhere in the catalog.

MECHANICAL ENGINEERING CURRICULUM

Interim term courses. Humanities and social science courses taken during the Interim term may be counted toward the requirements for a BS degree in mechanical engineering. However, Interim courses can be used to fulfill mechanical engineering or technical elective requirements only if the specific courses have been approved in advance of registration by the Department of Mechanical Engineering.

SENIOR YEAR

First Semester

ME 415 Energy Systems Design ⁴	2
ME 450 Dynamic Machine Components.....	3
ME 460 Thermal Systems Instrumentation (W).....	3
ME 489 Mechanical Engineering Design I.....	3
Humanities (HU), literature (L), or fine arts (FA) elective and/or history (HI) or social and behavioral sciences (SB) elective ¹	6

17

FRESHMAN YEAR

First Semester	Hours
CH 101 General Chemistry I (N)	4
DR 100 Technical Sketching for Engineers.....	1
EN 101 English Composition I (FC)	3
GES 131 Foundations of Engineering I.....	2
MATH 125 Calculus I (MA)	4
Humanities (HU), literature (L), or fine arts (FA) elective or history (HI) and/or social and behavioral sciences (SB) elective ¹	3

17

Second Semester

ME 490 Mechanical Engineering Design II.....	3
Approved mechanical engineering or technical elective ⁵	3
Approved mechanical engineering elective ³	3
Humanities (HU), literature (L), or fine arts (FA) elective and/or history (HI) or social and behavioral sciences (SB) elective ¹	6

15

Total: 128 hours

Second Semester

DR 133 2D AutoCAD for Engineers.....	2
EN 102 English Composition II (FC)	3
GES 132 Foundations of Engineering II.....	2
MATH 126 Calculus II (MA)	4
PH 105 Physics with Calculus I (N)	4

15

SOPHOMORE YEAR

First Semester

AEM 201 Statics	3
MATH 227 Calculus III (MA)	4
ME 215 Thermodynamics I.....	3
PH 106 Physics with Calculus II (N)	4
Approved Science Elective ²	4

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Second Semester

AEM 264 Dynamics.....	3
AEM 311 Fluid Mechanics.....	3
MATH 238 Applied Differential Equations I (MA)	3
ME 305 Thermodynamics I.....	3
MTE 271 Engineering Materials: Structure and Properties.....	3

15

JUNIOR YEAR

First Semester

AEM 250 Mechanics of Materials	3
AEM 251 Mechanics of Materials Laboratory.....	1
ECE 320 Fundamentals of Electrical Engineering.....	3
ME 309 Heat Transfer.....	3
ME 349 Engineering Analysis (C)	3
Humanities (HU), literature (L), or fine arts (FA) elective or history(HI)and/or social and behavioral sciences(SB)elective ¹	3

16

Second Semester

ME 350 Static Machine Components.....	3
ME 360 Control and Instrumentation Components (W)	3
ME 372 Dynamic Systems (C)	3
ME 383 Modern Manufacturing Practices	3
Approved mechanical engineering elective ³	3

15

DEPARTMENT OF METALLURGICAL AND MATERIALS ENGINEERING (MTE)

Professor Viola L. Acoff
Department Head

Office: 116 Houser Hall

The breadth of training afforded engineers specializing in metallurgical and materials engineering permits entry into many exciting technical fields. All fields of engineering involve metallic, ceramic, polymeric, or composite materials. Virtually every component of any engineered structure is limited by the properties of the materials chosen for its fabrication. The selection, methods of production, heat treatment, and finishing of the materials involved in all aspects of systems of transportation, power generation, communication, food preparation, entertainment, and housing depend on individuals trained in materials. Exciting challenges exist in the development and application of 21st-century materials, which range from the new generation of superconductors and ultralightweight composites to new magnetic recording media and sophisticated high-temperature alloys.

It is the objective of the Department of Metallurgical and Materials Engineering undergraduate program to provide an educational experience that develops the fundamental scientific and technical engineering principles to prepare the student for the 21st century. Students receive an integrated learning experience, which includes classroom and laboratory courses that enhance their analytical, experimental, synthesis, and design skills for problem solving, that address their responsibilities to society and the environment, and that emphasize the growth of their teamwork, communicative, and leadership talents. Student learning is stimulated by modern facilities that include sophisticated equipment and advanced computer technology in which individual attention is the rule rather than the exception.

Graduates of The University of Alabama's metallurgical engineering curriculum have distinguished themselves in many careers, holding a wide range of managerial, scientific, and engineering posts across the country in industry, government, and education. The four-year program leading to the BS degree in metallurgical engineering involves a 120-credit-hour course sequence. Advanced study may then be pursued, if desired, to earn the MS or PhD degree.

METALLURGICAL ENGINEERING CURRICULUM

Revised January 2000

FRESHMAN YEAR

First Semester

CH 101 General Chemistry I (N).....	4
DR 100 Technical Sketching for Engineers.....	1
EN 101 English Composition I (FC)	3
GES 131 Foundations of Engineering I.....	2
MATH 125 Calculus I (MA).....	4
MTE 101 Introduction to Materials.....	1
	<hr/> 15

Second Semester

CH 102 General Chemistry II (N)	4
EC 110 Principles of Microeconomics (SB)	3
EN 102 English Composition II (FC)	3
GES 132 Foundations of Engineering II.....	2
MATH 126 Calculus II (MA).....	4
	<hr/> 16

SOPHOMORE YEAR

First Semester¹

MATH 227 Calculus III (MA).....	4
MTE 252 Metallurgical Process Calculations (C).....	3
MTE 271 Engineering Materials: Structure and Properties.....	3
PH 105 General Physics with Calculus I (N).....	4

14

Second Semester

AEM 201 Statics.....	3
MATH 238 Applied Differential Equations I.....	3
MTE 275 Engineering Materials I Laboratory.....	2
MTE 362 Thermodynamics of Materials.....	3
PH 106 General Physics with Calculus II (N)	4

15

JUNIOR YEAR

First Semester

ECE 320 Fundamentals of Electrical Engineering.....	3
MTE 380 Synthesis, Processing, and Manufacturing of Materials	3
MTE 373 Physical Metallurgy	4
Advanced science elective ¹	3
Humanities elective (HUL/FA).....	3

16

Second Semester

MTE 353 Transport Phenomena in Metallurgy (C).....	3
MTE 416 Fundamentals of Foundry Processing	3
MTE 455 Mechanical Behavior of Materials	3
Advanced science elective ¹	3
Social and behavioral sciences elective (HI/SB).....	3

15

SENIOR YEAR

First Semester

MTE 441 Chemical Metallurgy.....	3
MTE 443 Materials Engineering Design I.....	2
MTE 481 Analytical Methods for Materials (W)	3
MTE elective ²	3
Humanities elective (HUL/FA).....	3

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Second Semester

MTE 445 Materials Engineering Design II (W)	3
MTE elective ³	3
Advanced mathematics or statistics elective ⁴	3
Humanities elective (HUL/FA).....	3
History or social and behavioral sciences elective (HI/SB).....	3

15

Total: 120 hours

¹A list of acceptable science and math electives is available in the metallurgical and materials engineering department's office.

²MTE students may take any MTE 400-level or higher courses with the permission of the instructor.

Although the publisher of this catalog has made every reasonable effort to attain factual accuracy herein, no responsibility is assumed for editorial, clerical, or printing errors or error occasioned by honest mistake. All information contained in this catalog is subject to change by the appropriate officials of The University of Alabama without prior notice.

COLLEGE OF ENGINEERING

ADMINISTRATIVE OFFICERS AND FACULTY

Administrative Officers

- KARR, CHARLES L., BS, MS, PhD (Alabama). Professor of Aerospace Engineering and Mechanics and Dean of the College of Engineering, 1999, 2005.
WIEST, JOHN M., BSChE (Colorado–Boulder), PhD (Wisconsin–Madison). Associate Dean for Research and Graduate Studies and Professor of Chemical and Biological Engineering, 1995, 2005.
WHITAKER, KEVIN W., BSME, MSME, PhD (Texas A&M). Associate Dean for Academic Programs and Associate Professor of Aerospace Engineering and Mechanics, 1987, 2000.

Administrative and Professional Staff

- NANCY HOLMES, Director of Capstone Engineering Society
KEN L. DUNN, Chief Mechanician
LYNSEY DILL, Coordinator Student Recruitment
ROY T. GREGG JR., BA, MA, Director of the Cooperative Education Program
LAWRENCE K. HILL, BS, MS, PhD, Director of Information Technology & Engineering
MIKE RHINEY, Director of Financial Affairs
CAROL SANDERS, Events Coordinator
GREGORY L. SINGLETON, BS, M., Director of Engineering Student Services & Multicultural Engineering Program
MARY WYMER, BS, MA, Communication Specialist Senior

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to title listed.

Aerospace Engineering and Mechanics

- BARKEY, MARK E., BS (Missouri–Rolla), MS, PhD (Illinois). Professor, 1995, 2006.
FREEMAN, L. MICHAEL, BSAE, MSAE, PhD (Mississippi State). Associate Professor, 1982, 1990.
HAQUE, ANWARUL, BS (Bangladesh University of Engineering and Technology), MS (Tuskegee), PhD (Auburn). Associate Professor, 2001.
HUBNER, JAMES PAUL, BS, MS, (Florida), PhD (Georgia Institute of Technology). Assistant Professor, 2005.
JACKSON, JOHN E., JR., BSAE, MSMH, PhD (Alabama), PE (Tennessee). Professor and Graduate Program Director, 1990.
JONES, STANLEY E., BA, MS, PhD (Delaware). Department Head and James R. Cudworth Professor, 1987, 2001.
KARR, CHARLES L., BS, MS, PhD (Alabama). Dean and Professor, 1995, 2005.
LANG, AMY W., BS (Michigan State), MS, PhD (California Institute of Technology). Assistant Professor, 2005.
OLCMEN, SEMIH, BS, MS (Istanbul Technical), PhD (Virginia Tech). Associate Professor, 2002.
ROY, SAMIT, BTech (Indian Institute of Technology), MS, PhD (Virginia Polytechnic Institute and State University). William D. Jordan Professor, 2005
SHARIF, MD. ALI ROB, BSE (Bangladesh University of Engineering and Technology), ME (Asian Institute of Technology), MSME (Calgary), PhD (Clarkson). Associate Professor, 1989, 1995.
SHARMA, RAJNISH, BT, MT (India Institute of Technology, Kanpur), PhD (Texas A&M). Assistant Professor, 2008
WHITAKER, KEVIN W., BSME, MSME, PhD (Texas A&M). Associate Dean for Academic Programs and Associate Professor, 1987, 2000.
ZEILER, THOMAS A., BSAE, MSAE (Virginia Tech), PhD (Purdue). Associate Professor and Undergraduate Program Director, 1995, 2001.

Chemical and Biological Engineering

- ACOFF, VIOLA L., BS, MS, PhD (Alabama–Birmingham). Professor and Department Head, 1994, 2004, 2009.
ARNOLD, DAVID W., BSChE (Alabama), MS (Georgia Institute of Technology), PhD (Purdue). Professor, 1980, 1999.
BRAZEL, CHRISTOPHER S., BSChE (Texas A&M), MSChE, PhD (Purdue). Associate Professor, 1999, 2005.
CARLSON, ERIC S., BS, MS, PhD (Wyoming). Associate Professor, 1990, 1996.
CLARK, PETER E., BS, PhD (Oklahoma State). Associate Professor, 1987.
GUPTA, ARUNAVA, PhD (Stanford). MINT Professor, 2004.
KLEIN, TONYA M., BSChE (Florida), PhD (North Carolina State). Associate Professor, 1999, 2005.
LANE, ALAN M., BSChE., BS Chemistry (Washington), PhD (Massachusetts). Professor, 1986, 2000.
RITCHIE, STEPHEN M. C., BSChE (Toledo), PhD (Kentucky). Associate Professor, 2001, 2007.
TURNER, C. HEATH, BS (Auburn), MS, PhD (North Carolina State). Associate Professor, 2003, 2009.
WEAVER, MARK L., BS (Washington), MS, PhD (Florida). Adjunct Assistant Professor, 1997.
WIEST, JOHN M., BSChE (Colorado–Boulder), PhD (Wisconsin–Madison). Professor, 1995, 2005.

Civil, Construction, and Environmental Engineering

- BACK, W. EDWARD. BS, MS, (Illinois), PhD (Clemson), Associate Professor and Director of Construction Engineering Programs, 2007.
BATSON, ROBERT G., BS, MSIE, PhD (Alabama), MS (Florida State), PE (California). Professor, 1984, 2005.
DAVIS, ROBERT P., BSIE, MS (Tennessee), PhD (Oklahoma State), PE (Virginia). Professor, 2001.
DURRANS, S. ROCKY, BSCE, MSCE (Colorado–Denver), PhD (Colorado–Boulder), PE (Colorado, Alabama, Mississippi). Professor, 1991, 2003.
FRIDLEY, KENNETH J., BSCE (Washington State), MSCE (Texas–Austin), PhD (Auburn). Professor and Head of the Department of Civil, Construction, and Environmental Engineering, 2003.
GRAETTINGER, ANDREW J., BA, MS (Wisconsin–Milwaukee), PhD (Northwestern). Assistant Professor, 1998.
GRAU, DAVID TORRENT, BSIE (Universitat Politecnica de Catalunya), MSCE, PhD, (Texas–Austin), Assistant Professor, 2008.
JOHNSON, PAULINE D., BSc (University of Salford), PhD (Queens University, Belfast). Professor, 1995, 2009.
JOHNSON, PHILIP W., BS EngrSci (Florida State), MS, PhD (New Mexico Tech), PE (New Mexico). Associate Professor, 1990, 1996.
JONES, STEVEN, JR., LBCE (Auburn), PhD (Virginia), Associate Professor, 2009.
LINDLY, JAY K., BSCE (Kansas), MSCE (Kansas State), PhD (Purdue), PE (Alabama). Professor, 1987, 2006.
LOU, YINGYAN, BS (Beijing University, China), MSCE, PhD, (Florida), Assistant Professor, 2009.
MOYNIHAN, GARY P., BS, MBA (Rensselaer), PhD (Central Florida). Professor, 1990, 2001.
PARK, DUK-WON, BS (Inha, Korea), MS, PhD (Missouri–Rolla), PE (Alabama). Professor, 1981, 1988.
PITT, ROBERT E., BS (Humboldt State), MSCE (San Jose State), PhD (Wisconsin), PE (Wisconsin), DEE. Professor and Director of Environmental Engineering Programs, 2001.
RAY, PAUL S., BME (Jadavpur University), MTech (Indian Institute of Technology), MBA (Golden Gate), PhD (Oklahoma), PE (Texas). Professor, 1989, 2005.
RICHARDSON, JAMES A., BS (California–Davis), MS, PhD (Nevada–Reno), PE (California). Associate Professor, 1989, 1995.
TRICHE, MICHAEL H., BS (Louisiana State), MS, PhD (Purdue), PE (Alabama). Associate Professor, 1988, 1995.
van de LINDT, JOHN W., BSCE (California State Sacramento), MSCE, PhD (Texas A&M). Professor and Drummond Chair in Civil Engineering, 2010.

WANG, JAILAI, BS (Anhui University of Science and Technology, China), MS (China University of Mining and Technology), PhD (Akron). Assistant Professor, 2006.

WILLIAMSON, DEREK G., BS (Washington Univ), MS, PhD (Texas–Austin). Associate Professor, 1999, 2006.

Computer Science

ANDERSON, MONICA, BS (Chicago State), MS, PhD (Minnesota). Assistant Professor, 2006.

BORIE, RICHARD B., BS, MS (Alabama), MS, PhD (Georgia Institute of Technology). Associate Professor, 1989, 1995.

BROWN, DAVID B., BS (Rutgers), MS (Montana State), PhD (Texas Tech). Professor, 1991.

BROWN, MARCUS E., BA, MDiv (Abilene Christian), PhD (Texas A&M). Associate Professor, 1988, 1994.

CARVER, JEFFREY, BS (Louisiana State), MS, PhD (Maryland). Assistant Professor, 2008.

CORDES, DAVID W., BS (Arkansas), MS (Purdue), PhD (Louisiana State). Professor and Head, 1988, 2005.

DIXON, BRANDON, BS (Vanderbilt), MS, PhD (Princeton). Associate Professor, 1994, 2000.

DIXON, LESLIE, JD (Alabama). Instructor, 1998, 2006.

FREEMAN, HAZEL E., BA (Alabama State), MS, PhD (Alabama). Instructor, 1989.

GRAY, JEFF, BS (West Virginia), PhD (Vanderbilt). Associate Professor, 2010.

HONG, XIAOYAN, BE, ME (Zhejiang), MS, PhD (UCLA). Associate Professor, 2003, 2009.

HOOPER, DANA, BS, MLIS (Alabama), 2006, 2009.

HOOPER, RALPH E., BA, MS (West Virginia). Instructor, 1995, 2006.

HORTON, CHRISTOPHER, BS, MS (Mississippi State), PhD (Alabama). Instructor, 2007.

KRAFT, NICHOLAS, BA (Indiana Southeast), MS, PhD (Clemson). Assistant Professor, 2007.

LUSTH, JOHN, BS (Michigan Tech), MS (Duke), PhD (Alabama). Associate Professor, 2008.

MORRIS, KATHLEEN, BS, MA (Alabama). Instructor, 2002, 2006.

PARRISH, ALLEN S., BS (Tennessee–Martin), MS, PhD (Ohio State). Professor, 1990, 2005.

PRATER, JAMES M., BS, MA, PhD (Alabama). Instructor, 1994, 2006.

SMITH, RANDY K., BS (Alabama–Huntsville), MS, PhD (Alabama). Associate Professor, 2002, 2008.

VRBSKY, SUSAN V., BA (Northwestern), MS (Southern Illinois), PhD (Illinois). Associate Professor, 1992, 1998.

XIAO, YANG, BS, MS (Jilin, China), MS, PhD (Wright State), Associate Professor, 2006, 2009.

WRIGHT, KIMBERLY, BS, MA (Alabama). Instructor, 1998, 2006.

ZHANG, JINGYUAN, BS (Shandong), MS (Zhejiang), PhD (Old Dominion). Associate Professor, 1999, 2005.

Electrical and Computer Engineering

ABU QAHOUQ, JABER, BSEE (Princess Sumaya University), MSEE, PhD (University of Central Florida). Assistant Professor, 2008.

BURKETT, SUSAN, BSEE, MSEE, PhD (University of Missouri, Columbia). Alabama Power Endowed Professor, 2008.

HAO, QI, BSEE, MSEE (Shanghai Jiao Tong University), PhD (Duke). Assistant Professor, 2007.

HASKEW, TIMOTHY, BEE, MS, PhD (Auburn). Professor, 1991, 1997, 2006.

HONG, YANG-KI, BS, MS (Yonsei University), PhD (Utah). Professor and E. A. "Larry" Drummond Endowed Chair of Computer Engineering, 2006.

HU, FEI, BS, MS (Shanghai Tiedao University), PhD (Tongji University), PhD (Clarkson University). Associate Professor, 2008.

JACKSON, JEFF, BS, MSEE (Auburn), PhD (Alabama). Professor and Department Head, 1990, 1996, 2007.

KIM, BRUCE, BSEE (UC Irvine), MSEE (Arizona), PhD (Georgia Institute of Technology). Associate Professor, 2005.

KIM, SEONGSIN, BS (Yonsei University), MS, PhD (Northwestern). Assistant Professor, 2007.

KOTRU, SUSHMA, BS, MS (University of Kashmir), MS, PhD (University of Jammu). Associate Professor, 2006.

KUNG, PATRICK, BS (École Polytechnique), PhD (Northwestern). Assistant Professor, 2007.

LI, DAWEN, BS, MS (Dalian University of Technology), MS (Utah), PhD (Michigan). Assistant Professor, 2008.

LI, SHUHUI, BS, MS (Southwest Jiaotong University), PhD (Texas Tech University). Associate Professor, 2006.

RICKS, KENNETH, BSEE (Alabama), MS, PhD (Alabama–Huntsville). Associate Professor, 2002, 2008.

SCHARSTEIN, ROBERT, BSEE (SUNY–Buffalo), MSEE, PhD (Syracuse), PE (Alabama). Associate Professor, 1989, 1995.

Freshman Engineering Program

COOPER, STEVEN M., BS, MS (Alabama). Instructor, 2008.

GRAHAM, C. BRYAN, BS (Mississippi State), MS (Mississippi), Landscape Architect (Alabama, Mississippi). Assistant Professor of Engineering Graphics, 1981.

JORDAN, WENDELL E., BS, EdD (Mississippi State), EdD (Texas A&M). Assistant Professor of Engineering Graphics, 1978.

MONK, BRIDGETT J., BA, MS (Alabama). Instructor, 2004.

STOGNER, CLAUDE R., BS, (Alabama) MS, (South Florida). Instructor, 2009.

TAMONDONG, VIRGINIA B., BA (South Alabama), MS, PhD (Alabama). Instructor, 2005.

WOOD, SANDRA A., BA, MS (Alabama). Instructor, 2002.

Mechanical Engineering

AGRAWAL, AJAY K., BSME (Indian Institute of Technology, Roorkee), MSM.E. (Indian Institute of Technology, Kampur), PhD (Miami). Barfield Chair Professor, 2005.

ASHFORD, MARCUS, BSME (Louisiana State), MSE, PhD (University of Texas at Austin). Assistant Professor, 2004.

BAKER, JOHN, BSME, MSME, PhD (Kentucky). Professor, 2001, 2009.

CHOU, Y. KEVIN, BSME (Sun Yet-Se–Taiwan), MSME (National Taiwan University), PhD (Purdue). Associate Professor, 1999, 2005.

FONSECA, DANIEL, BS, MS (Alabama), PhD (LSU). Associate Professor, 2000, 2006.

GUO, YUEBIN, BS (Shandong Institute of Technology), MS (Tsinghua), MEng (California–Berkeley), PhD (Purdue). Professor, 2001, 2009.

KIM, JUN-HYEUNG (Jay), BS (Korea University), MS and PhD (Purdue). Assistant Professor 2009.

MIDKIFF, KENNETH CLARK, JR., BA (Yale), BSME, MSME, PhD (Kentucky). Professor, 1986, 1991, 2006.

PARKER, JOEY K., BS (Tennessee Tech), ME, PhD (Clemson). Associate Professor, 1985, 1991.

PUZINAUSKAS, PAULIUS V., BSME (Maryland), MSME, PhD (Michigan). Associate Professor, 2003, 2009.

SCHREIBER, WILLARD C., BA, MSE (Vanderbilt), MSE (Purdue), PhD (Kentucky). Associate Professor, 1985, 1991.

SHEN, XIANGRONG, BS (Shanghai Jiao Tong University), MS (Nebraska) PhD (Vanderbilt). Assistant Professor, 2008.

SHEPHARD, W. STEVE, BSME, MSME, PhD (Georgia Tech), Associate Professor, 1999, 2004.

TAYLOR, ROBERT P., BSME (Mississippi State), MSME (Purdue), PhD (Mississippi State). Professor, 2004.

TODD, BETH A., BSES (Penn State), MSAM, PhD (Virginia). Associate Professor, 1992, 2001.

WEI, YUJIE, BS (Beijing University), MS (Chinese Academy of Sciences), PhD (MIT). Assistant Professor 2009.

WILLIAMS, KEITH A., BSCE (Vermont), MS (Iowa State), PhD (Purdue). Associate Professor, 2001, 2007.

WOODBURY, KEITH A., BSME, MSME (Alabama), PhD (Virginia Tech), PE (Virginia). Professor, 1988, 1994, 2007.

Metallurgical and Materials Engineering

ACOFF, VIOLA L., BS, MS, PhD (Alabama–Birmingham). Professor and Head, 1994, 2004, 2009.

CHOPRA, NITIN, PhD (University of Kentucky). Assistant Professor, 2008.

EL-KADDAH, NAGY, BSMT (Cairo), PhD (London), DIC (Imperial College). Professor, 1985, 1991.

GUPTA, SUBHADRA, BSc (West Indies), MS, PhD (Cincinnati). Associate Professor, 2004.

REDDY, RAMANA G., BE (Osmania University), MTech (IIT-Bombay), PhD (Utah). ACIPCO Professor, 1996.

THOMPSON, GREGORY B., BS (Brigham Young), MS, PhD (Ohio State). Associate Professor, 2003, 2008.

VISWANATHAN, SRINATH, B. Tech (IIT Madras), MS, PhD (Pittsburgh). Associate Professor and FEF Key Professor, 2005.

WARREN, GARRY W., BS, MS (Texas-El Paso), PhD (Utah). Professor, 1986, 1992.

WEAVER, MARK L., BS (Washington), MS, PhD (Florida). Professor, 1997, 2007.

Eric and Sarah Rodgers Library for Science and Engineering

HEDGES, BARBARA, BS (Harvey Mudd College). MA (Indiana-Bloomington), MLS (Texas-Austin). Science and Engineering Reference Librarian and Assistant Professor, 2000.

KRSHNAMURTHY, MANGALA, BS, BLibSC (Mysore, India), MLIS (Alabama). Science and Engineering Reference Librarian and Instructor, 2002.

SANDY, JOHN H., BA (St. Cloud State), MS (Southern Illinois), MLS (Missouri). Professor and Head of Rodgers Library, 1994, 1999.

Emeriti

BAILEY, J. EARL, BSAE, MSAE (Mississippi State). Professor Emeritus of Aerospace Engineering, 1962, 1990.

BALL, JOHN E., BCE, MSE. (Florida), PhD (Texas), PE (Alabama, Florida, Georgia, Kentucky, Louisiana, Minnesota, Mississippi, Texas, West Virginia). Professor Emeritus of Civil Engineering, 1975, 1996.

BARFIELD, ROBERT F., BSME, MSME, PhD (Georgia Institute of Technology), PE (Alabama, Georgia). Dean Emeritus of the College of Engineering and Professor Emeritus of Mechanical Engineering, 1967, 1994.

BRADT, RICHARD C., BS (MIT), MS, PhD (RPI). Professor Emeritus, 1994, 2009.

BROWN, JACK C., BSCE (Alabama), MS (Illinois Institute of Technology), PhD (Texas A&M). Professor Emeritus of Engineering Graphics, 1955, 1988.

BROWN, ROBERT C., JR., BSCE (Citadel), MSCE, PhD (Texas), PE (Alabama). Professor Emeritus of Civil Engineering, 1973, 1996.

CARDEN, A. EUGENE, BSME (Auburn), MSE (Alabama), PhD (Connecticut), PE (Alabama). Professor Emeritus of Engineering Science and Mechanics, 1955, 1994.

CARROLL, CHESTER C., BSEE, MSEE, PhD (Alabama), PE (Alabama). Professor Emeritus of Electrical Engineering, 1986, 1993.

CHEN, DER-SAN, BS (Cheng-Kung University, Taiwan), MSIE (Alabama), PhD (SUNY-Buffalo). Professor Emeritus of Industrial Engineering, 1970, 2004.

CHEN, HUI-CHUAN "HANNAH," BS (Cheng-Kung University, Taiwan), MS (Alabama), PhD (SUNY-Buffalo). Professor Emerita of Computer Science, 1970, 2004.

CLEMENTS, WILLIAM C., JR., BEChE, MS, PhD (Vanderbilt), PE (Alabama). Professor Emeritus of Chemical Engineering, 1966, 1996.

DOUGHTY, JULIAN O., BSAE, MSAE (Mississippi State), PhD (Tennessee), PE (Alabama). Professor Emeritus of Mechanical Engineering, 1966, 1993.

DUDGEON, JAMES E., BSE, MSE (Michigan), PhD (Alabama). Professor Emeritus of Electrical Engineering, 1963, 1996.

EVCES, CHARLES R., BSME, MSME (Notre Dame), PhD (West Virginia), PE (Alabama), Professor Emeritus of Mechanical Engineering, 1969, 1996.

GAMBRELL, SAMUEL C., JR., BS, MS (Clemson), PhD (West Virginia), PE (Alabama). Professor Emeritus of Engineering Science and Mechanics, 1965, 1996.

GRIFFIN, ROBERT A., BS, MS (California-Davis), PhD (Utah State). Associate Dean Emeritus and James R. Cudworth Professor Emeritus of Environmental Engineering, 1990, 1996.

HANSEN, JOHN P., BS, MS, MetE, PhD (Minnesota), PE (Alabama). Professor Emeritus of Metallurgical Engineering, 1963, 1988.

HARRISBERGER, LEE, BSME (Oklahoma), MSME (Colorado), PhD (Purdue). Professor Emeritus of Mechanical Engineering, 1977, 1988.

HAYNES, CHARLES D., BS (Alabama), MS (Pennsylvania State), PhD (Texas), PE (Alabama). Professor Emeritus of Civil and Environmental Engineering, 1991, 2005.

HENRY, HAROLD R., BCE (Georgia Institute of Technology), MS (Iowa), PhD (Columbia), PE (Alabama, Michigan, New York). Professor Emeritus of Civil Engineering, 1964, 1990.

HILL, JAMES L., BSME (Oklahoma), MS, PhD (Illinois), PE (Alabama). Professor Emeritus of Engineering Science and Mechanics, 1963, 1996.

HOLLUB, RAYMOND M., BSAE, MSE (Alabama), PE (Alabama). Associate Professor Emeritus of Aerospace Engineering, 1956, 1989.

HOUTS, RONALD C., BSEE, MSE, PhD (Florida). Professor Emeritus of Electrical Engineering, 1966, 1991.

JORDAN, WILLIAM D., BSME, MSCE (Alabama), PhD (Illinois). Professor Emeritus of Engineering Mechanics, 1946, 1986.

KALLSEN, HENRY A., BS (Iowa State), MS, PhD (Wisconsin), PE (Wisconsin). Professor Emeritus of Industrial Engineering, 1965, 1991.

KAVANAUGH, STEVE, BS MS (Lamar), PhD (Oklahoma State). Professor Emeritus of Mechanical Engineering, 1985 1995.

LEAR, W. EDWARD, BSEE (Alabama), MS (Stanford), PhD (Florida), PE (Alabama). Dean Emeritus of the College of Engineering and Professor Emeritus of Electrical Engineering, 1966, 1981.

MCDUFF, ODIS P., BSEE (Alabama), MSEE (MIT), PhD (Stanford), PE (Alabama). Professor Emeritus of Electrical Engineering, 1959, 1992.

MCGOWIN, MARTHA, AB (Alabama College), BSME (Alabama). Associate Professor Emerita of Engineering Drawing, 1956, 1980.

MCKAY, GORDON B., BSME (Maine), MS, PhD (Columbia), PE (New York). Professor Emeritus of Mechanical Engineering, 1964, 1984.

MCKINLEY, MARVIN D., BSChE, MSE, PhD (Florida), PE (Alabama). Reichhold-Shumaker Professor Emeritus of Chemical Engineering, 1965, 1996.

MERRITT, THOMAS WAYNE, JR., BS, MS, PhD (Auburn), PE (Alabama). Associate Professor Emeritus of Industrial Engineering, 1987, 2005.

MJOSUND, ARNE, Dipl. NHH (Norwegian University), PhD (Johns Hopkins). Professor Emeritus of Industrial Engineering, 1966, 1983.

MOTT, HAROLD, BSEE, MSEE, PhD (North Carolina State), PE (Alabama). Professor Emeritus of Electrical Engineering, 1960, 1993.

PIMMEL, RUSSELL L., BSEE (St. Louis), MS, PhD (Iowa State). Professor Emeritus of Electrical Engineering, 1992, 2003.

PLANZ, EDWARD J., BS (Connecticut), MS (Rensselaer). Associate Professor Emeritus of Metallurgical Engineering, 1960, 1985.

RANEY, DONALD C., BSME (Kentucky), MSME (Auburn), PhD (VPI&SU), PE (Alabama). Research Professor Emeritus of Mechanical Engineering, 1964, 1993.

REINHARD, ERWIN A., BSEE, MSEE, PhD (Texas), PE (Alabama). Professor Emeritus of Electrical Engineering, 1963, 1990.

SCHRODT, VERLE N., BSChE (Illinois), MSChE, PhD (Pennsylvania State), PE (Missouri). Professor Emeritus of Chemical Engineering, 1988, 2000.

STEFANESCU, DORU M., BSMtE, MSMtE, PhD (Polytechnic Institute of Bucharest). Research Professor Emeritus, 1980, 2005

WALTERS, JAMES V., BSCE, MSCE (Georgia Institute of Technology), PhD (Florida), PE (Alabama, Delaware, Florida, Georgia, Indiana, Kentucky, Louisiana, Michigan, Mississippi, Missouri, North Carolina, Ohio, South Carolina, Tennessee, Texas, Virginia, West Virginia), LS (Alabama, Georgia). Professor Emeritus of Civil Engineering, 1959, 1994.

WANG, GEORGE C., BS Mining and Metallurgy (National Yunnan), MS Petroleum Engineering (Tulsa), PhD (Texas). Professor Emeritus of Mineral Engineering, 1974, 1980.

WEBB, WILLIAM E., BS, MS, PhD (Alabama). Professor Emeritus of Electrical Engineering, 1964, 1996.

WEBSTER, DENNIS B., BSIE, MSIE (West Virginia), PhD (Purdue), JD (Jones Law Institute), PE (Alabama). Professor Emeritus of Industrial Engineering, 1987, 1994.

WEEKS, GEORGE E., BSAE, MSAE (Alabama), PhD (VPI&SU), PE (Alabama). Professor Emeritus of Aerospace Engineering, 1967, 1994.

WILSON, HOWARD B., JR., BSCE, MA (Alabama), PhD (Illinois). Professor Emeritus of Engineering Science and Mechanics, 1957, 1994.

COLLEGE OF HUMAN ENVIRONMENTAL SCIENCES

HISTORY AND OBJECTIVES

Designated as Human Environmental Sciences in 1987, the College evolved from the tradition and heritage of home economics. Courses were offered as early as the summer session of 1911, with a Department of Home Economics in the College of Arts and Sciences established by 1917. The division became the School of Home Economics in 1931; Agnes Ellen Harris, AM, LLD, was appointed the first dean. Actively engaged in the transmission, generation, and dissemination of knowledge, the College has three main objectives: (1) to provide students with the intellectual curiosity and professional competence needed for careers in business, industry, government agencies, health care, and education; (2) to provide for the general education and intellectual growth of students in other divisions; and (3) to contribute to the body of knowledge that is the foundation for continued enrichment of the educational experience.

ADMISSION AND RETENTION REQUIREMENTS

The College of Human Environmental Sciences follows the admission and retention standards set by the University. The standards for admission to specific professional programs, and the conditions for retention in those programs, are indicated in the departmental information that follows. The College of Human Environmental Sciences reserves the right to change policies, procedures, degree requirements, schedules, courses offered, and other standards in light of circumstances that may arise after the publication of this catalog.

DEGREES AND PROGRAMS OFFERED

Human Environmental Sciences programs are offered at the baccalaureate, master's, and, in some cases, doctoral levels. Upon successful completion of the requirements established for each curriculum, the appropriate degree may be conferred. Each student selects a major from the following curricula:

Department of Clothing, Textiles, and Interior Design

Apparel and Textiles
Interior Design

Department of Consumer Sciences

Consumer Sciences

Department of Health Science

Athletic Training
General Health Studies

Department of Human Development and Family Studies

Early Childhood Education
Human Development and Family Studies

Department of Human Nutrition and Hospitality Management

Food and Nutrition
Restaurant, Hotel, and Meetings Management

College of Human Environmental Sciences

Human Environmental Sciences

To earn a second bachelor's degree in the College, a student must complete in residence in the College of Human Environmental Sciences, with a grade average of "C" (2.0 GPA) or better, a minimum of 30 hours beyond the hours required for the first degree. The work must be completed in accordance with all other University and College regulations.

GENERAL DEGREE REQUIREMENTS

The minimum requirements for a degree in the College of Human Environmental Sciences at The University of Alabama are

- a minimum of 120 earned semester credit hours, including all University Core Curriculum requirements and the human environmental sciences core courses (HES 310 for all students and HES 100 for new freshmen)
- a 2.0 or higher grade point average (GPA) for all college-level courses attempted, for all courses attempted at The University of Alabama, and for all courses attempted in the major field of study
- at least 30 semester credit hours earned in residence in the College of Human Environmental Sciences, including at least 9 of the last 18 hours required for a degree

It is the student's responsibility to make sure that all degree requirements have been met. Students should arrange to meet with their academic advisors in the College of Human Environmental Sciences two semesters prior to graduation to verify that all requirements will have been fulfilled by the expected date of graduation. In order to graduate, a student must submit an application for degree to the registrar (101 Doster Hall) no later than the time he or she registers for the final semester in residence.

A student who wishes to complete degree requirements at any institution other than The University of Alabama, or by any means other than residency in the College of Human Environmental Sciences, may do so only on the advice of the department head of the major field in which the student expects to earn a degree and with the approval of the associate dean; such a student must fulfill the above general degree requirements.

Academic advising. Once the student chooses a major in the College of Human Environmental Sciences, he or she is assigned a departmental academic advisor/mentor who will counsel him or her about degree requirements, appropriate course sequencing, and other academic matters. It is the student's responsibility to consult with the academic advisor and then plan and complete an appropriate course of study. Students need to pay careful attention to requirements of the University Core Curriculum, noting especially any prerequisites that must be met before enrollment in courses that carry core curriculum designations. The core curriculum at mybama.ua.edu should be consulted each semester to determine whether a core curriculum designation remains in effect at the time the student is enrolling in the course. Early in the program, the student should plan an appropriate sequence to satisfy the core curriculum requirements. Students should check with the office of student services of the College of Human Environmental Sciences to verify the successful completion of core curriculum requirements.

Class hour load. The College of Human Environmental Sciences enforces the same restrictions on class hour loads as the University. These restrictions are outlined in "Student Records and General Academic Policies" in this catalog.

Transfer students. A student who transfers to the College of Human Environmental Sciences from another institution must complete EN 101 and EN 102 Freshman Composition if he or she has not done so previously. Transfer students should consult with the associate dean or registrar of the College of Human Environmental Sciences regarding the evaluation of course credits to be transferred.

A transfer student must earn at least 30 hours of credit in residence in the College of Human Environmental Sciences. Transfer students planning to enter certain majors in the College should be aware of the existence of a required sequence of courses.

Declaration of a minor. A student pursuing a degree in the College of Human Environmental Sciences may choose a minor course of study in the College or in another academic division. In this catalog, the courses required in particular minors generally are listed along with the requirements for majors in that division and department. The requirements for minors in Commerce and Business Administration, however, are explained in the section on the College of Arts and Sciences.

Forms for declaring a minor course of study are available in 101 Doster Hall. When the student meets with the registrar of Human Environmental Sciences to verify the completion of all graduation requirements, the minor area requirements are also verified. If the student satisfactorily completes all requirements for the minor, the minor is included on the student's transcript.

DEPARTMENT AND PROGRAM REQUIREMENTS

DEPARTMENT OF CLOTHING, TEXTILES, AND INTERIOR DESIGN (CTD)

Professor Shirley Foster, Interim Department Head
Office: 307 Doster Hall

The Department of Clothing, Textiles and Interior Design offers two academic majors: interior design (INTD) and clothing and textiles (CT), with concentrations in fashion retailing and apparel design. Students in both CT concentrations take 21 hours of common courses.. Each student takes 39 additional hours of coursework for the concentration in apparel design and 42 or 43 additional hours of coursework for the concentration in fashion retailing. University Core Curriculum designations are noted in bold type.

CLOTHING AND TEXTILES (CT)

Major in clothing and textiles (CT). The CT major is planned for students interested in preparing for merchandising, management, design, and production careers in retailing and/or the textile and apparel industry. This major is also appropriate for students who are interested in pursuing a wide variety of entrepreneurial opportunities in fashion retailing, textiles, and/or apparel.

Required courses for all CT majors	Hours
CTD 102 Applied Design	3
CTD 261 Textiles	3
CTD 281 Fashion Retailing I	3
CTD 447 Textiles and Apparel in International Trade (W)	3
CTD 448 History of Costume or CTD 415 History of Textile Design (W)....	3
EC 110 Principles of Microeconomics (SB).....	3
MKT 300 Marketing	3
Total: 21 hours	

Apparel design concentration for CT majors. The concentration in apparel design is planned for students interested in preparing for design, production, and management careers in the textile and apparel industry. Students may enhance their career preparation by choosing coursework from such areas as art, business, and communication, and by completing an internship in textile/apparel production or design. Accreditation by the National Association of Schools of Art and Design was awarded in 1998.

All students interested in transferring to The University of Alabama into the apparel design concentration should contact the Department of Clothing, Textiles, and Interior Design one year prior to enrollment, if possible, to verify transfer credits and plan for a required portfolio review.

Transcripts, student work, project assignments, and course syllabi are required at the time of the portfolio review. CTD 241 is a prerequisite for CTD 245, which is offered spring semester only. CTD 245, CTD 349, CTD 350, CTD 351, and CTD 450 are not offered in summer school and must be completed in that sequence. Each student will be assigned an academic advisor who will help develop the plan of study.

Required courses for apparel design concentration	Hours
ART 110 Drawing I.....	3
CTD 217 Fashion Illustration.....	3
CTD 219 Textile Design.....	3
CTD 241 Apparel Construction.....	3
CTD 245 Apparel Production.....	3
CTD 349 Computer-Aided Apparel Design.....	3
CTD 350 Flat Pattern Design	3
CTD 351 Apparel Design through Draping	3
CTD 320 Visual Merchandising or CTD 446 Cultural Dynamics of Apparel and Textiles.....	3
CTD 450 Advanced Apparel Design	3
CTD 461 Quality Control for Textile Products.....	3
Art history (FA)	6
Total: 39 hours	

SAMPLE CURRICULUM FOR THE CLOTHING AND TEXTILES MAJOR WITH AN APPAREL DESIGN CONCENTRATION

FRESHMAN YEAR

Courses	Hours
ART 110	3
CTD 102.....	3
CTD 241	3
CTD 261	3
EN 101 and EN 102 (or EN 103) (FC).....	6
HES 100	3
History ¹ (HI) and social and behavioral sciences (SB).....	6
Mathematics (MA)	3
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	30

SOPHOMORE YEAR

Courses	Hours
CTD 217	3
CTD 219	3
CTD 245	3
CTD 281	3
Art history (FA)	6
EC 110 (SB)	3
Humanities ² (HU) and fine arts (FA)	6
Natural science (N).....	4
Sophomore portfolio review.....	0
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	31

JUNIOR YEAR

Courses	Hours
CTD 320 or CTD 446.....	3
CTD 349	3
CTD 350	3
CTD 351	3
CTD 448 or CTD 415 (W).....	3
CTD 461	3
Computer science (C) or foreign language (FL).....	6-8
Writing course (W).....	3
Junior portfolio review.....	0
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	27-29

SENIOR YEAR

Courses	Hours
CTD 447 (W)	3
CTD 450	3
HES 310	3
MKT 300	3
Electives	11-13
History (H) and social and behavioral sciences (SB)	3
Natural science (N).....	4
Senior portfolio review	0
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	30-32

¹ Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature.

² Each student who completes a 6-hour history sequence must take a 3-hour literature course.

Fashion retailing concentration for CT majors. The fashion retailing concentration is planned for students interested in preparing for merchandising and management careers in retailing and related fashion fields. Supervised internships are offered during the senior year for students who have successfully completed 86 semester hours. The 86 hours must include the following group of professional courses completed with a grade point average of 2.5 or higher prior to enrollment in CTD 461, CTD 481 and CTD 485: CTD 102; CTD 231; CTD 261; CTD 281; CTD 320; CTD 381; CTD 447; MKT 300; MKT 321; MKT 313, MKT 337, MKT 444, or MKT 410; EC 110; EC 111 or ST 260; and accounting. The first half of the internship consists

of class meetings on campus; during the second half of the internship, the student participates in an approved work experience. A student interested in an international retailing focus should consult with his or her advisor early in the sequence to plan coursework and internship experience. Through careful planning with the advisor, a general business minor may be completed.

Required courses for fashion retailing concentration	Hours
CTD 231 Sewn Products Analysis.....	3
CTD 381 Fashion Retailing Seminar.....	3
CTD 320 Visual Merchandising	3
CTD 446 Cultural Dynamics of Apparel and Textiles.....	3
CTD 461 Quality Control for Textile Products.....	3
CTD 481 Fashion Retailing II	3
CTD 485 Internship in Fashion Retailing.....	6
ST 260 Statistical Data Analysis or EC 111 Principles of Microeconomics (SB).....	3
MGT 300 Organizational Theory and Behavior	3
MKT 313 Buyer Behavior, MKT 337 Personal Selling, MKT 444 Promotional Management, or MKT 410 Product Development	3
MKT 321 Retail Management.....	3
MKT 455 International Marketing or MGT 301 Introduction to Human Resources Management or MGT 341 Contemporary Ethical Issues and Corporate Responsibility or MGT 320 Leadership	3
Principles of accounting.....	3–4
Total: 42–43 hours	

SAMPLE CURRICULUM FOR THE CLOTHING AND TEXTILES MAJOR WITH A FASHION RETAILING CONCENTRATION

FRESHMAN YEAR

Courses	Hours
CTD 102	3
CTD 261	3
EN 101 and EN 102 (or EN 103) (FC).....	6
HES 100	3
Humanities ¹ (HU) or fine arts (FA).....	6
History ¹ (HI) and social and behavioral sciences (SB).....	6
Mathematics (MA)	3
30	

SOPHOMORE YEAR

CTD 231	3
CTD 281	3
EC 110 (SB)	3
ST 260 or EC 111 (SB)	3
Accounting ³	3–4
Computer science (C) or foreign language (FL).....	6–8
Humanities (HU) and fine arts (FA)	3
History (HI) or social and behavioral sciences (SB)	3
Natural science (N)	4
31–34	

JUNIOR YEAR

CTD 320	3
CTD 381	3
CTD 446	3
CTD 447 (W)	3
CTD 415 (W) or CTD 448	3
HES 310	3
MGT 300.....	3
MKT 300	3
MKT 313, MKT 337, MKT 444, or MKT 410	3
MKT 321	3
30	

SENIOR YEAR

CTD 461	3
CTD 481	3
CTD 485	6
MKT 455, MGT 301, MGT 341, or MGT 320	3
Electives	1–4
Humanities (HU) and fine arts (FA)	3
Natural science (N)	4
Writing course (W)	3
26–29	

¹ Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature.

² Each student who completes a 6-hour history sequence must take a 3-hour literature course.

³ A four-hour accounting course is required for the general business minor.

INTERIOR DESIGN (INTD)

Major in interior design (INTD). The program in interior design is planned to prepare students for professional careers in residential and nonresidential interior design. Career opportunities include employment with interior design studios, interior design divisions of architectural firms, and retail establishments. The coursework is designed to prepare students to apply to become registered interior designers. The interior design program received six-year accreditation from the Council for Interior Design Accreditation in 2007. Accreditation by the National Association of Schools of Art and Design (NASAD) was awarded in 2008.

All students interested in transferring to The University of Alabama into the interior design program should contact the Department of Clothing, Textiles, and Interior Design at least one year prior to enrollment, if possible, to verify transfer credits and plan for a required portfolio review. Transcripts, student work, project assignments, and course syllabi are required at the time of the portfolio review. CTD 121 is a prerequisite for CTD 225, which is offered fall semesters only. Transfer students who do not have credit for CTD 121 (or the equivalent) are urged to complete the course during the first term of summer school in order to enroll in CTD 225 the first fall semester of enrollment. CTD 225, CTD 226, CTD 325, CTD 326, CTD 425, and CTD 426 are not offered in summer school and must be taken in that sequence. Laboratory courses are open only to interior design majors. Each student will be assigned an academic advisor who will help develop the plan of study.

Required courses for all INTD majors	Hours
ART 110 Drawing I.....	3
ART 131 Design II	3
CTD 102 Applied Design	3
CTD 121 Introduction to Interior Design	3
CTD 219, CTD 340, CTD 310, or studio art	3
CTD 221 Materials and Sources for Interior Design	3
CTD 225 Residential Design/Graphic Communication	3
CTD 226 Nonresidential Design/Graphic Communication	3
CTD 261 Textiles	3
CTD 325 Design for Special Populations	3
CTD 326 Design for Hospitality Interiors	3
CTD 328 Professional Procedures in Interior Design	3
CTD 371 Lighting for Interiors	3
CTD 421 History of Interiors and Furnishings I	3
CTD 422 History of Interiors and Furnishings II (W)	3
CTD 425 Advanced Residential Design/Historic Documentation	4
CTD 426 Advanced Nonresidential Design	4
DR 135 Construction Drawing	3
DR 250 Construction Materials and Procedures	3
DR 355 AutoCAD for Interior Design	3
Art history (FA)	6
Studio art elective	3

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SAMPLE CURRICULUM FOR THE INTERIOR DESIGN MAJOR

FRESHMAN YEAR

Courses	Hours
ART 110.....	3
CTD 102.....	3
CTD 121.....	3
DR 135.....	3
EN 101 and EN 102 (or EN 103) (FC).....	6
HES 100.....	3
History ¹ (HI) and social and behavioral sciences (SB).....	6
Natural science (N).....	4
	31

SOPHOMORE YEAR

Courses	Hours
CTD 219, CTD 340 (Interim), CTD 310 (Interim), or studio art.....	3
CTD 221.....	3
CTD 225.....	3
CTD 226.....	3
CTD 261.....	3
DR 250.....	3
Art history (FA).....	6
History (HI) and social and behavioral sciences (SB).....	3
Mathematics (MA).....	3
	30

JUNIOR YEAR

Courses	Hours
ART 131.....	3
CTD 323 (seminar for optional internship).....	1
CTD 326.....	3
CTD 328.....	3
CTD 371.....	3
CTD 421.....	3
CTD 422 (W).....	3
DR 355.....	3
HES 310.....	3
Computer science (C) or foreign language (FL).....	3-4
Portfolio review.....	0
	28-29

SUMMER

Courses	Hours
CTD 423 (optional internship).....	3

SENIOR YEAR

Courses	Hours
CTD 425.....	4
CTD 426.....	4
Computer science (C) or foreign language (FL).....	3-4
Electives.....	1-3
History (HI) ² and social and behavioral sciences (SB).....	3
Humanities (HU) and fine arts (FA).....	6
Natural science (N).....	4
Portfolio review.....	0
Studio art elective.....	3
Writing course (W).....	3
	32-33

DEPARTMENT OF CONSUMER SCIENCES (CSM)

Professor Milla D. Boschung, Department Head Office: 212 Adams Hall

The consumer sciences curriculum allows students to select a concentration of courses in either family financial planning and counseling or consumer affairs, depending on the students' career goals. Each student must work with a department advisor to plan the appropriate courses.

The concentration in family financial planning and counseling has been registered with the Certified Financial Planner Board of Standards Inc.; therefore, students who successfully complete the concentration may sit for the CFP® Certification Examination that leads to the professional certification Certified Financial Planner™, CFP® certification.

Certified Financial Planner Board of Standards Inc. owns the marks CFP®, Certified Financial Planner™, and CFP (with flame logo)®, which it awards to individuals who successfully complete initial and ongoing certification requirements. These marks are awarded to individuals who successfully complete the CFP Board's initial and ongoing certification requirements. The University of Alabama does not certify individuals to use the CFP®, Certified Financial Planner™, and CFP (with flame logo)® certification marks. CFP certification is granted only by the Certified Financial Planner Board of Standards Inc. to those persons who, in addition to completing an educational requirement such as this CFP Board Registered Program, have met ethics, experience, and examination requirements.

The **family financial planning and counseling concentration** ideally suits students interested in careers as family financial planners or counselors in financial planning firms, banks, insurance companies, investment companies, and social services. The **consumer affairs concentration** prepares students for careers as consumer specialists in government, business, industry, communication, and community services. Students interested in graduate study are encouraged to study advanced consumer economic theory and to obtain an introduction to research methodology and analysis.

Major in consumer sciences. The following courses are required for the major in consumer sciences. Other courses are required based on selected concentration.

Required courses	Hours
CSM 201 Individual and Family Resource Management.....	3
CSM 204 Introduction to Personal Financial Planning.....	3
CSM 401 Consumer Protection (W).....	3
CSM 403 Consumer Economics.....	3
CSM 405 Public Policy: Family and Community Resources.....	3
CSM 459 Techniques of Consumer Counseling.....	3
CSM 462 Professionalism in CSM	3
ST 260 or BER 345.....	3

SAMPLE CURRICULUM FOR THE CONSUMER SCIENCES MAJOR

FRESHMAN YEAR

Courses	Hours
EN 101 and EN 102 (or EN 103) (FC).....	6
HES 100.....	3
Computer science (C) or foreign language (FL).....	3-4
History (HI) and social and behavioral sciences (SB)	9
Mathematics (MA).....	3
Natural science (N).....	4
Electives	3
	31-32

SOPHOMORE YEAR

Courses	Hours
CSM 201	3
CSM 204	3
CSM 462	2
Computer science (C) or foreign language (FL).....	3
Concentration.....	.6

¹Each student must take either a 6-hour sequence in history or a 6-hour sequence in literature.

²Each student who completes a 6-hour history sequence must take a 3-hour literature course.

³Interior design majors who plan to enroll in CTD 423 Internship in Interior Design in the summer must register for CTD 323 the preceding spring semester.

History (HI) or social and behavioral sciences (SB).....	3
Humanities (HU) and fine arts (FA).....	6
Natural science (N).....	4
	31

JUNIOR YEAR

Courses	Hours
CSM 401 (W).....	3
CSM 462	2
Concentration.....	9
Electives.....	8
Humanities (HU) and fine arts (FA)	6
	28

SENIOR YEAR

Courses	Hours
CSM 403.....	3
CSM 405.....	3
CSM 462	2
HES 310	3
CSM 459.....	3
Concentration.....	9
Electives	4
Writing course (W)	3
	30

Minor in consumer sciences. A minor in consumer sciences is available to students outside the Department of Consumer Sciences. Eighteen hours are required for the minor, including CSM 201, CSM 204, and 12 additional hours selected in consultation with a department advisor.

DEPARTMENT OF HEALTH SCIENCE

Professor Lori Turner, Department Head

Office: 208 East Annex

The Department of Health Science offers two majors leading to the bachelor of science degree. These majors are athletic training and general health studies. Both majors require that all students enrolling as freshmen enter as general health studies majors. During the freshman year, each student should complete HHE 270 Personal Health. Students interested in applying for admission to the Athletic Training Education Program should also take the prerequisites listed under that program.

ATHLETIC TRAINING (ATR)

Professor Deidre Leaver-Dunn, Director

Office: 106 East Annex

Accredited by the Commission on Accreditation of Athletic Training Education (CAATE), this limited-enrollment program requires the completion of 120 semester hours as specified below and leads to the bachelor of science degree. To major in athletic training, a student must be accepted to the Athletic Training Education Program (ATEP) from the general health studies major. He or she must complete the following requirements:

- completion of the following classes with grades of "C" or higher:
ATR 257, ATR 258, HHE 270, ATR 272, BSC 114:115, MATH 112 (or MATH 113 or MATH 115 or MATH 125), EN 101, EN 102, NHM 101, and PY 101
- 2.5 cumulative grade point average (24+ hours)
- evaluation by clinical instructors*
- three recommendation forms*
- personal interview with ATEP Selection Committee*
- proof of current CPR training to include AED use
- submission of official high-school, junior-college, college, and university transcripts*
- completion of formal application to ATEP*
- evaluation by ATEP selection committee*
- practical test by ATEP selection committee*

*These steps will be addressed in ATR 258 Clinical Fundamentals in Athletic Training, which must be taken at The University of Alabama.

An average of 20 students are chosen to enter the major each year in compliance with CAATE accreditation standards and guidelines. Selections are made at the end of the spring semester. Students must also meet specific written technical standards prior to admission to the ATEP. A copy of these standards may be obtained from the office of the program director in 106 East Annex. Following selection, completion of the program requires a minimum of six consecutive semesters, or three academic years. Admitted students are required to undergo bloodborne pathogen training, a physical examination and TB testing annually. ATEP students are also offered access to Hepatitis B vaccination at no charge. Students are also required to maintain current CPR for Health Care Professionals and first aid training. NOTE: Admission to this program is competitive and satisfying published application requirements does not guarantee selection. Rather, students who meet published application criteria are guaranteed consideration for admission to the ATEP. An individual may request information concerning summative data on the most recent admissions from the program director. A student who wishes to obtain a teaching certificate may also pursue courses in the intended teaching subject area and prerequisite courses for application to the College of Education's alternative (non-traditional, fifth-year) certification program.

The undergraduate catalog is published at two-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheet, available from academic advisors and in 101 Doster Hall.

Athletic training major requirements	68
BSC 114:115 Principles of Biology I and Laboratory	4
BSC 215 Human Anatomy and Physiology I	4
BSC 216 Human Anatomy and Physiology II	4
ATR 257 Introduction to Athletic Training	3
ATR 258 Clinical Fundamentals in Athletic Training	1
ATR 272 First Aid, Safety, and CPR	2
ATR 300 Foundations of Athletic Training	3
ATR 310 Integration of Clinical Skills in Athletic Training I	1
ATR 320 Integration of Clinical Skills in Athletic Training II	1
ATR 357 Clinical Evaluation and Diagnosis I	3
ATR 358 Clinical Evaluation and Diagnosis II	3
ATR 360 Clinical Evaluation and Diagnosis III	3
ATR 410 Integration of Clinical Skills in Athletic Training III	1
ATR 420 Integration of Clinical Skills in Athletic Training IV	1
ATR 430 Integration of Clinical Skills in Athletic Training V	1
ATR 453 Applied Clinical and Research Skills in Athletic Training	3
ATR 454 Organization and Administration in Athletic Training	3
ATR 455 Pharmacology and Pathology in Athletic Training	3
ATR 456 Rehabilitation Techniques in Athletic Training	3
ATR 457 Therapeutic Modalities in Athletic Training	3
ATR 458 Seminar in Athletic Training (W)	3
HHE 270 Personal Health	3
KIN 365 Applied Biomechanics	3
KIN 492 Physiology of Exercise	3
NHM 101 Introduction to Human Nutrition	3
NHM 315 Nutrition for Performance	3
MATH 112 Precalculus Algebra	3
MATH 113 Precalculus Trigonometry	3
PH 101 General Physics I	4
PY 101 Introduction to Psychology	3
Electives	variable

Total: At least 120

GENERAL HEALTH STUDIES (HHE)

The program in general health studies is designed for students interested in health education in settings that are not school-based. For instance, students enrolled in the program can prepare for careers as worksite health promotion specialists or as community health educators. In addition, the program is appropriate for students interested in graduate study in public health and allied health. The general health studies major can be used as a premedical major, provided the student identifies an interest in applying to medical school early and makes the appropriate substitutions in the course requirements. One academic year of inorganic chemistry (CH 101 and CH 102) and one academic year of organic chemistry (CH 231, CH 232, and CH 237) should be taken. Students should also take math through calculus (MATH 125), one academic year of physics (PH 101

and PH 102), and one academic year of biological sciences (BSC 114:115 and BSC 116:117). Applications to medical school should be completed approximately one year prior to the expected date of enrollment. The Medical College Admission Test (MCAT) is required by most schools. The Health Professions Advising Office in the College of Arts and Sciences is available to assist general health studies majors. The courses required in the program are specified below. Total coursework required for the degree is 120 semester hours.

The undergraduate catalog is published at two-year intervals. Program advising sheets are updated much more frequently and are thus likely to provide the most up-to-date information on degree and other requirements. Students should always obtain the most recent advising sheet, available from academic advisors.

Courses	Hours
General Studies*	59
General Health Studies Major Requirements	36
CSM 401 Consumer Protection (W) or	
HD 412 Adult Development (W)	3
CSM 441 Consumer Communications (W) or	
CSM 445 Microcomputers in Consumer Services.....	3
HD 101 Human Development.....	3
HHE 270 Personal Health	3
HHE 273 Community and Public Health.....	3
HHE 370 Principles and Foundations of Health Promotion	3
HHE 378 Drug Awareness/Education (W).....	3
HHE 440 Stress Management.....	3
HHE 467 Design and Evaluation of Health Promotion Programs.....	3
HHE 468 Practical Applications in Health Communications and Health Promotion.....	3
NHM 101 Introduction to Human Nutrition	3
Approved NHM course at 200 level or above.....	3
Support courses/emphasis as approved by advisor.....	15
Electives	10
Total: 120	

DEPARTMENT OF HUMAN DEVELOPMENT AND FAMILY STUDIES (HDFS)

Professor Carroll Tingle, Department Head

The Department of Human Development and Family Studies offers majors in early childhood education (ECHS) and in human development and family studies (HDFS). Concentrations are provided in each major. In the ECHS major one concentration, early childhood development, is currently offered. In the HDFS major, four concentrations are offered: family studies; adolescent and youth development; general human development and family studies; and child life.

In addition to selecting a major and concentration, a student may also select a minor in order to enhance his or her program of study and career opportunities. Other University of Alabama academic divisions offer many appropriate minors. Requirements for these minors are found in the sections of this catalog pertaining to those divisions. The student should select a concentration and/or minor in consultation with a departmental advisor in order to ensure that program requirements are fulfilled. The student should also consult the advisor before choosing elective courses.

All students majoring in human development and family studies must take the following courses as part of the University core requirements:

Courses	Hours
BSC 109 Introductory Biology for Non-Majors II or	
BSC 114:115 Principles of Biology (N)	4
PY 101 Introduction to Psychology (SB)	3
HD 101 Human Development (SB)	3

In addition, please note that every student in the Department of Human Development and Family Studies is required to select an existing concentration or propose his or her own personalized concentration. In the event that a student wishes to propose a personalized concentration of courses, he or she must make application following a prescribed process. Students interested in this option should contact the chairperson of the department.

EARLY CHILDHOOD EDUCATION (ECHS)

Major in early childhood education. The major in early childhood education is designed to provide students with an understanding of the growth and development of young children (0–8-year-olds). Students in this major have a concentration in early childhood development (ECD). In this concentration, students learn to apply developmental principles in the design, implementation, and evaluation of programs for young children. At present, no public school certification is associated with this degree.

Each student completing the early child development concentration must have a GPA of 2.0 or higher in HD coursework before enrolling in HD 495 (Early Childhood Development Internship). Many internship opportunities require an overall GPA of 2.5 or higher. Students should contact the department's internship coordinator for further information.

Courses	Hours
HD 202 Child Development: Infancy and Toddlerhood.....	3
HD 205 Child Development: Early Childhood.....	3
HD 302 Child Development: Adolescence.....	3
HD 382 Parent and Family Development.....	3
HD 321 Conceptual and Creative Experiences for Young Children-I.....	3
HD 322 Conceptual and Creative Experiences for Young Children-II.....	3
HD 422 Administering Children's Centers and Programs (W).....	3
HD 472 Program Evaluation	3
HD 488 Senior Seminar.....	2
HD 495 Early Childhood Development Internship.....	6
SPE 471 Developmental Perspectives of Young Children with Disabilities	3
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HUMAN DEVELOPMENT AND FAMILY STUDIES (HDFS)

Major in human development and family studies (HDFS). The major in human development and family studies provides an understanding of growth and development throughout the lifespan. Following are descriptions of the concentrations available to HDFS majors, including courses required in each concentration. There are also recommended elective courses to enhance the various programs of study. A list of these courses is available from the student's departmental advisor.

Concentration in family studies. The concentration in family studies provides an understanding of the development of the family system and the dynamics of family relationships. Students who earn a grade of "C" or better in each course in the program are eligible to apply for certification as a family life educator by the National Council on Family Relations. This concentration prepares students to work in a variety of educational and enrichment programs such as parenting programs, family service agencies, industry, schools, social service, churches, home economics, and 4-H extension. This concentration is also well-suited for students interested in pursuing graduate degrees in marriage and family therapy as well as other areas in family studies.

Each student completing the family studies concentration must have an overall GPA of 2.0 or higher before enrolling in HD 497 Family Studies Internship. Many internship opportunities require an overall GPA of 2.5 or higher. Students should contact the internship coordinator for further information.

Courses	Hours
HD 202 Child Development: Infancy and Toddlerhood.....	3
HD 205 Child Development: Early Childhood.....	3
HD 262 Marriage and the Family.....	3
HD 302 Child Development: Adolescence.....	3
HD 382 Parent and Family Development.....	3
HD 462 Interpersonal Relationships.....	3
HD 472 Program Evaluation	3
HD 475 Human Sexuality/Sex Education.....	3
HD 483 Family Life Education (W).....	3
HD 488 Senior Seminar.....	2
CSM 201 Individual and Family Resource Management	3

Choose one of the following:

- CSM 430 Family and Consumer Law, or
- HD 480 Children and Divorce.....
- HD 497 Human Development and Family Studies Internship

Concentration in adolescent and youth development. The adolescent and youth development concentration is planned for students who are interested in the growth and development of adolescents and youth within the family, peer, and school contexts. The goal of this concentration is to prepare students for work in a variety of settings including community-based programs, home-based programs, and mental-health agencies. Additionally, this concentration provides the necessary background for students interested in pursuing graduate studies in adolescent and youth development. The curriculum consists of the HDFS core courses as well as specialty courses that highlight adolescent and youth issues.

Each student completing the adolescent and youth development concentration must have a GPA of 2.0 or higher on HD coursework before enrolling in HD 498 Human Development and Family Studies Internship. Many internship opportunities require an overall GPA of 2.5 or higher. Students should contact the internship coordinator for further information.

Required courses	Hours
HD 202 Child Development: Infancy and Toddlerhood.....	3
HD 205 Child Development: Early Childhood.....	3
HD 302 Child Development: Adolescence.....	3
HD 382 Parent and Family Development.....	3
HD 462 Interpersonal Relationships.....	3
HD 472 Program Evaluation.....	3
HD 488 Senior Seminar.....	2
HHE 378 Drug Awareness/Education.....	3
HD 475 Human Sexuality	3
HD 498 Adolescent and Youth Internship.....	6
PY 372 Social Psychology.....	3
CJ 240 Youth Development and Juvenile Delinquency Control or SW 208 Social Services for Delinquents and Their Families	3
	38

Concentration in general human development and family studies. The general HDFS concentration provides a flexible program for students interested in preparing for professional work or further study related to children and families through coursework only (there is no internship requirement). This program of study is especially relevant for students who would like to pursue advanced coursework in preparation for professional degrees (e.g., medical school). Other students who might find this option appropriate include students who wish to double major within four years, or students who for family or employment reasons find a semester-long internship a particular hardship.

Required courses	Hours
HD 101 Human Development.....	3
HD 202 Child Development: Infancy and Toddlerhood.....	3
HD 205 Child Development: Early Childhood.....	3
HD 262 Marriage and Family.....	3
HD 302 Child Development: Adolescence.....	3
HD 382 Parent and Family Development.....	3
	18

Choose four courses from the following block (12 hours):

- HD 412 Adult Development
- HD 422 Administering Children's Centers and Programs
- HD 462 Interpersonal Relationships
- HD 472 Program Evaluation
- HD 475 Human Sexuality
- HD 480 Children and Divorce
- Approved HD course at the 300 or 400 level

AND

Choose four courses from the following block (12 hours):

- CJ 240 Juvenile Delinquency or
- SW 208 Juvenile Delinquency: Causes, Control, and Services
- CSM 201 Individual and Family Resource Management
- CSM 430 Family and Consumer Law
- HHE 378 Drug Awareness/Education
- HHE 475 Human Sexuality

SPE 471 Developmental Perspectives of Young Children with Disabilities
PY 372 Social Psychology

42 total hours

Concentration in child life. The child life concentration is planned for students who wish to study and work with children and youth in health care settings. The curriculum consists of a comprehensive foundation of courses related to the growth and development of the healthy child as well as children with illnesses. Through specific courses, students participate in laboratory and practicum experiences with children. These experiences, along with the theoretical information, provide a foundation necessary for working with hospitalized children and their families. This curriculum enables a student to become a candidate for the national certification exam administered by the Child Life Certifying Committee of the Child Life Council. Students must make application to the child life program after completion of 60–90 hours with at least 12 hours of HD courses. Acceptance and retention in the program are determined by (a) satisfactory recommendation by HD faculty committee and (b) overall grade point average of 2.5 and an average of 2.5 in HD courses. Each student enrolled in the child life concentration must have a GPA of 2.5 or better in human development coursework before enrolling in HD 496.

Courses	Hours
BSC 215 Human Anatomy and Physiology I	4
BSC 216 Human Anatomy and Physiology II	4
HD 202 Child Development: Infancy and Toddlerhood.....	3
HD 203 Medical Terminology.....	2
HD 205 Child Development: Early Childhood.....	3
HD 302 Child Development: Adolescence.....	3
HD 382 Parent and Family Development.....	3
HD 321 Conceptual and Creative Experiences for Young Children I	3
HD 322 Conceptual and Creative Experiences for Young Children II	3
HD 422 Administering Children's Centers and Programs (W).....	3
HD 426 Hospitalized Children and Youth	3
HD 451 Loss and Bereavement	3
HD 472 Program Evaluation.....	3
HD 488 Senior Seminar.....	2
PHL 204 Medical Ethics	3
HD 496 Child Life Internship.....	12
	57

Minor in human development and family studies. The minor in human development and family studies requires 18 hours including HD 202, HD 205, HD 302, HD 382, HD 462 and one HD elective at the 300 or 400 level.

SAMPLE CURRICULUM FOR THE HUMAN DEVELOPMENT AND FAMILY STUDIES MAJOR

FRESHMAN YEAR

Courses	Hours
EN 101 and EN 102 or (EN 103) (FC).....	6
HES 100	3
BSC 109 or BSC 114/115 (N)	4
Computer science (C) or foreign language (FL).....	3–4
Math (MA).....	3
PY 101 (SB)	3
History (HI) and social and behavioral sciences (SB)	9

31–32

SOPHOMORE YEAR		Hours
Courses		
HD 202	3	
HD 205	3	
Computer science (C) or foreign language (FL)	3-4	
Natural science (N)	4	
Humanities (HU) and fine arts (FA)	12	
Human development elective or concentration courses	3	
	<hr/>	
	28-29	
JUNIOR YEAR		
Courses		
HD 302	3	
HD 382	3	
Human development electives	6-9	
Elective	6	
Concentration or minor	12	
	<hr/>	
	30-33	
SENIOR YEAR		
Courses		
HES 310	3	
HD internship, if applicable	6-12	
HD 472	3	
HD 488	2	
Concentration or minor	9	
Electives	9	
	<hr/>	
	31-38	

Required courses	Hours
BSC 215 Human Anatomy and Physiology I	4
BSC 216 Human Anatomy and Physiology II	4
BSC 242 Microbiology and Man	4
BER 345 Educational Statistics	3
CH 104 Introductory Chemistry (N)	4
CH 105 Introductory Organic Chemistry (N)	4
NHM 101 Introduction to Human Nutrition	3
NHM 195 Introduction to Dietetics and Nutrition	1
NHM 201 Nutrition in the Life Cycle	3
NHM 253 Food Science	3
NHM 361 Nutritional Biochemistry	3
NHM 362 Nutrition at the Cellular Level	3
NHM 363 Applied Nutrition	3
NHM 365 Medical Nutrition Therapy I	3
NHM 372 Introduction to Food Systems Management	3
NHM 373 Purchasing, Design, and Risk Management in Food Service Systems	3
NHM 374 Quantity Food Production and Service	3
NHM 395 Introduction to Research in Food and Nutrition	1
NHM 432 Nutrition Counseling and Education	3
NHM 454 Experimental Food Science (W)	3
NHM 463 Community Nutrition (W)	3
NHM 465 Medical Nutrition Therapy II	3
NHM 475 Management of Food-Service Systems	3
NHM 491 Directed Professional Study (W)	3
NHM 495 Seminar in Dietetics and Nutrition	2
PY 101 Psychology (SB)	3
	<hr/>
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DEPARTMENT OF HUMAN NUTRITION AND HOSPITALITY MANAGEMENT (NHM)

Professor Olivia W. Kendrick
Department Head

Office: 206 Doster Hall

It is important for students to obtain from the department the list of specific courses to be taken each semester. Many of the courses in the major must be taken in a prescribed sequence, and most are offered only once each year.

FOOD AND NUTRITION

Professor Suzanne Henson
Director, Coordinated Program in Dietetics

Office: 206 Doster Hall

Professor Alvin Niuh
Director, Didactic Program in Dietetics

Office: 207 Doster Hall

The curriculum of the food and nutrition major is designed to prepare students for careers in health care facilities, community-health-nutrition programs, food-service management, and business. The major offers two routes to registration as a dietitian: a didactic program in dietetics (DPD) and a coordinated program in dietetics (CPD), both of which are accredited by the Commission on Accreditation for Dietetics Education. A third option, the nutrition sciences concentration, is designed for students who plan to attend medical school. DPD prepares students to apply for dietetic internships in order to be eligible to take the registration examination for dietitians. Students who complete the CPD are eligible to take the registration examination after graduation.

All students in the coordinated or didactic program in dietetics follow the same plan of study for the first 66 or 68 hours. In the spring semester of the sophomore year, students either apply to the coordinated program or the didactic program track. Regardless of the option chosen, all students complete the required courses listed below. (Students who choose the coordinated program in dietetics must also take NHM 366, NHM 390, NHM 464, NHM 466, NHM 467, NHM 476, and NHM 485.)

Didactic Program in Dietetics. The didactic program in dietetics (DPD) provides students with the required knowledge to apply for a dietetic internship. Upon completion of the DPD students receive a verification statement indicating that they are eligible to enter a dietetic internship. Students in the DPD take the courses required of all food and nutrition majors plus NHM 492 Preparation for Dietetic Internship. Students apply to the DPD during the junior year by completing the form "Application to the Didactic Program in Dietetics," which is available in the departmental office. Criteria for admission to the DPD include the following:

1. Complete 60 semester hours including NHM 101, 195, 201, and 253; CH 104 and 105; BSC 215 and 216 .
2. Earn a C- or higher in the classes listed in the criterion above.
3. Have an overall GPA of 2.75 or higher.
4. Intend to complete a supervised practice program to become a registered dietitian.
5. Submit the completed form "Application to the Didactic Program in Dietetics."

Each student will receive a copy of the DPD retention policy which includes maintenance of the 2.75 GPA and grade requirements for specific classes.

Coordinated Program in Dietetics. The coordinated program in dietetics (CPD) provides students with both the required knowledge and supervised practice experiences to be eligible to sit for the national examination to become a registered dietitian (RD). The UA CPD provides a concentration and culminating experience in Dietetics Management and Communication. Students in the CPD take the courses required of all food and nutrition majors plus an additional seven courses (17 hours) in which they apply the theories presented in these courses through experiences in food service and health care facilities, as well as health promotion programs. Students interested in completing CPD should apply at the beginning of the junior year during the Fall Admission period. A second opportunity for admission is available at the end of the junior year during the Spring Admission period. Application forms are available from the department. Admission to the CPD is limited. Applications will be reviewed and recommended by the committee on admissions of the Department of Human Nutrition and Hospitality Management. Criteria for admission include the following:

1. The student must present an overall cumulative grade point average of at least 2.5 and must have completed (with a minimum grade of "C") or be enrolled in the following courses: EN 101, EN 102, CH 104, CH 105, BSC 215, BSC 216, NHM 101, NHM 195, NHM 201, and NHM 253. Two courses in the social sciences and the core curriculum language requirement should have been completed.

2. A pretest covering material from the above prerequisite courses is part of the admission process. The score on the pretest is considered by the committee on admissions.

3. The applicant must complete an application form and a statement of activities and/or work experience and must provide a self-evaluation and three recommendation forms. The self-evaluation and recommendation forms are provided to the applicant. Each student will receive a copy of the CPD retention policy, which delineates grade requirements for specific courses. Once admitted to the CPD, the student's progress is reviewed each semester, and the student is informed if remediation is required. If the normal progression through the program is interrupted, the student is not guaranteed a place in the next class; the student must reapply to the CPD the following year. Preference will be given to students matriculating at The University of Alabama.

SAMPLE CURRICULUM FOR THE FOOD AND NUTRITION MAJOR

All Food and Nutrition Majors Completing CPD or DPD

FRESHMAN YEAR

Courses	Hours	
CH 104 and CH 105 (N)	8	
EN 101 and EN 102 (or EN 103) (FC)	6	
HES 100	3	
NHM 101	3	
NHM 195	1	
NHM 253	3	
Humanities (HU) and fine arts (FA)	6	
Mathematics (MA)	3	
	33	

SOPHOMORE YEAR

Courses	Hours	
BSC 215 and BSC 216.....	8	
BSC 242	4	
PY 101 (SB)	3	
NHM 201	3	
Computer science (C) or foreign language (FL).....	6-8	
History (HI) or social and behavioral sciences (SB)	3	
Statistics	3	
	30-32	

DPD Track

JUNIOR YEAR

Courses	Hours	
NHM 361	3	
NHM 362	3	
NHM 363	3	
NHM 365	3	
NHM 372	3	
NHM 373	3	
NHM 374	3	
NHM 395.....	1	
NHM 432	3	
NHM 454	3	
Humanities (HU) and fine arts (FA)	3	
	31	

SENIOR YEAR

Courses	Hours	
HES 310	3	
NHM 463	3	
NHM 465	3	
NHM 475	3	
NHM 491	3	
NHM 492.....	1	

NHM 495	2
History (HI) and social and behavioral sciences (SB)	6
Humanities (HU) and fine arts (FA)	3

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CPD Track

JUNIOR YEAR

Courses	Hours	
NHM 361	3	
NHM 362	3	
NHM 363	3	
NHM 365	3	
NHM 366	3	
NHM 372	3	
NHM 373	3	
NHM 374	3	
NHM 390	3	
NHM 395.....	1	
NHM 432	3	
NHM 454	3	
	34	

SENIOR YEAR

Courses	Hours	
NHM 463	3	
NHM 464	1	
NHM 465	3	
NHM 466	3	
NHM 467	3	
NHM 475	3	
NHM 476	2	
NHM 485.....	3	
NHM 491	3	
NHM 495	2	
HES 310	3	
Humanities (HU)	6	
History (HI) or social or behavioral sciences (SB).....	3	
	38	

Nutrition Sciences Concentration for FN majors. The nutrition sciences concentration is designed for students planning to attend medical school who wish to major in food and nutrition. This concentration does not meet the requirements to become a registered dietitian. Students who choose to meet both the requirements for medical school and for registration as a dietitian should work with an advisor to add the necessary courses to this curriculum. Applications to medical school should be completed approximately one year prior to the expected date of enrollment. The Medical College Admission Test (MCAT) is required by most schools. The Health Professions Advising Office in the College of Arts and Sciences is available to assist food and nutrition majors.

Courses	Hours	
NHM 101 Introduction to Human Nutrition.....	3	
NHM 195 Introduction to Dietetics and Nutrition	1	
NHM 201 Nutrition in the Life Cycle	3	
NHM 361 Nutritional Biochemistry.....	3	
NHM 362 Nutrition at the Cellular Level	3	
NHM 363 Applied Nutrition	3	
NHM 365 Nutrition in Medical Science I	3	
NHM 395 Introduction to Research in Food and Nutrition.....	1	
NHM 432 Nutrition Counseling and Education	3	
NHM 465 Medical Nutrition Therapy II	3	
Choose two of the following three writing courses;	6	
NHM 454 Experimental Food Science (W)		
NHM 463 Community Nutrition (W)		
NHM 491 Directed Professional Study (W)		
BSC 215 Human Anatomy and Physiology I	4	
BSC 216 Human Anatomy and Physiology II	4	

CH 101 General Chemistry I (N)	4
CH 102 General Chemistry II (N)	4
CH 231 Elementary Organic Chemistry I	4
PY 101 Introduction to Psychology (SB)	3
HES 310 Issues in Human Environmental Sciences.....	3
	58

Additional Courses Required for Premedical Education	
BSC 114:115 Principles of Biology I and Laboratory (N)	4
BSC 116:117 Principles of Biology II and Laboratory (N)	4
CH 232 Elementary Organic Chemistry II	4
CH 237 Organic Chemistry Laboratory	2
MATH 115 Precalculus Algebra and Trigonometry (MA)	3
MATH 125 Calculus I (MA).....	3
PH 101 General Physics I (N)	4
PH 102 General Physics II (N)	4
	32

SAMPLE CURRICULUM FOR THE NUTRITION SCIENCES CONCENTRATION FOR FOOD AND NUTRITION MAJORS

FRESHMAN YEAR

Courses	Hours
EN 101 and EN 102.....	6
HES 100	3
CH 101 and CH 102	8
NHM 195	1
NHM 101	3
Fine Arts	3
PY 101	3
Humanities.....	3
Math	3
	33

SOPHOMORE YEAR

Courses	Hours
CH 231	4
BSC 215 and 216	8
NHM 201	3
Humanities.....	9
Social and Behavioral Sciences	9
	33

JUNIOR YEAR

Courses	Hours
NHM 361	3
NHM 362	3
NHM 363	3
NHM 365	3
NHM 395.....	1
NHM 432	3
NHM writing course (NHM 454 or 491)	3
Computer or Foreign Language	6–8
Electives (choose courses to meet premed requirements)	3
	28–30

SENIOR YEAR

Courses	Hours
NHM 465	3
NHM writing course (NHM 463 or NHM 491)	3
HES 310	3
Electives (choose courses to meet premed requirements)	15

Minor in food and nutrition. A minor in food and nutrition is offered by the department and requires 18–20 hours including NHM 101, NHM 201, and NHM 253. The remaining hours are determined in consultation with an academic advisor. To fulfill natural science requirements, students are encouraged to take introductory chemistry and introductory organic chemistry.

RESTAURANT, HOTEL, AND MEETINGS MANAGEMENT

Professor Roy Maize, Director

Office: 206 Doster Hall

Major in restaurant, hotel, and meetings management (RHM).

The restaurant, hotel, and meetings management curriculum offers a variety of courses designed to develop the skills and abilities required for a management career in hospitality management. The curriculum prepares students for a career in restaurant, commercial, and institutional food-service operations, hotel front office management, hotel convention services, convention center meeting management, convention and visitor bureaus, hotel food and beverage management, hotel marketing and sales, and country club management. Students must complete a 1,000-hour practicum or a 600-hour internship in a hospitality organization. Students must also select a concentration in Restaurant/Food and Beverage Management, Hotel/Lodging Management, or Meetings/Event Planning OR select a minor from an approved area of study. Students may complete requirements for the *Manage First Professional (MFP)* certification available from the Educational Foundation of the National Restaurant Association and/or the *Certified Hospitality Supervisor (CHS)* certification available from the Educational Institute of the American Hotel and Lodging Association. Students must file with the department office the first semester of the junior year a plan of study for their concentration or minor. The plan of study must be approved by the student's academic advisor. The RHM major is offered through the traditional on-campus setting or through distance education.

Executive restaurant and hospitality management program (ExRHM). Professionals with significant managerial experience in the hospitality field can apply for admission to the executive restaurant and hospitality management program. Enrollment in the ExRHM program is selective and involves an application for admission to The University of Alabama and an application for admission to the ExRHM program. Applicants must be 25 years of age or older and be a resident of the United States; have a minimum of three (3) years of employment as a manager/supervisor in the hospitality industry; have educational goals attainable through the ExRHM Program; assume responsibility for learning; provide two letters of recommendation from current and/or past employers; and participate in a phone interview with the ExRHM Committee regarding educational goals. The University requires a high school diploma or equivalent of all applicants and a 2.0 overall grade point average (GPA) for college credit already taken. While not required, previous college work will be advantageous for ExRHM applicants. The ExRHM program is available through distance education. See exrhm.ua.edu for further details.

Courses required for the major in restaurant hotel, and meetings management are listed below:

Required courses	Hours
NHM 253 Food Science	3
RHM 175 Introduction to Hotel, Restaurant, and Hospitality Management	3
RHM 251 Hospitality Employee Supervision and Management	3
RHM 286 Professional Development for Hospitality Managers	1
RHM 303 Managing for Quality in the Hospitality Industry	3
RHM 375 Managing Catering Operations or NHM 374 Quantity Food Production	3–4
RHM 420 Hospitality Marketing	3
RHM 421 Hospitality Law	3
RHM 468 Practicum in Hospitality Management or RHM 469 Internship in Hospitality Management	4
RHM 474 Managerial Accounting for the Hospitality Industry	4
RHM 496 Hotel, Restaurant, and Convention Management Seminar	1
Courses in RHM Concentration or minor	15–18
RHM electives	9
Consumer Science elective	3
EC 110 Microeconomics	3

SAMPLE CURRICULUM FOR THE RESTAURANT, HOTEL, AND MEETINGS MANAGEMENT MAJOR

FRESHMAN YEAR

Courses	Hours
Social and behavioral sciences (SB).....	3
EN 101 and EN 102 (or EN 103) (FC).....	6
HES 100	3
NHM 253	3
RHM 175	3
RHM 286	1
Humanities (HU).....	6
Fine arts (FA).....	3
Mathematics (MA)	3
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	31

SOPHOMORE YEAR

Courses	Hours
Foreign language (FL)	8
History (HI) or social and behavioral sciences (SB).....	6
EC110.....	3
Humanities (HU).....	3
Natural science (N).....	8
RHM 251	3
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	31

JUNIOR YEAR

Courses	Hours
HES 310	3
RHM 375 or NHM 374	3-4
RHM 303	3
RHM 421	3
Courses in RHM Concentration or minor.....	9
RHM electives	6
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	27-28

SENIOR YEAR

Courses	Hours
RHM 420	3
RHM 468 or RHM 469	4
RHM 474	4
RHM 496	1
Courses in RHM Concentration or minor.....	6
RHM electives	6
CSM elective	3
Elective	3
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	30

HUMAN ENVIRONMENTAL SCIENCES (HES)

The curriculum in general studies in human environmental sciences enables students to integrate knowledge from all areas of the field and prepares them for employment or further study. The *general studies option* is designed for those interested in careers in cooperative extension, government, human services, utility companies, or an area of the communications field. Courses are selected in consultation with an advisor.

General Studies in Human Environmental Sciences

Professor Olivia W. Kendrick

Office: 101 Doster Hall

The purpose of this program is to give the student with specific career goals an opportunity to develop an innovative program of study with a focus on at least one area within the College.

Each student majoring in general human environmental sciences is expected to file a program of study prior to the completion of 100 hours and in accordance with the following guidelines:

- The proposed course of study must include 120 hours, including the statewide general studies requirements, the University of Alabama Core Curriculum requirements, and the College of Human Environmental Sciences core.
- The proposed course of study must give evidence that the student has built a cohesive structure of interrelated ideas around a focus within the College of Human Environmental Sciences and must include a minimum of 35 hours of coursework offered by the College of Human Environmental Sciences.
- The proposal must demonstrate that the proposed program could not be better served by an existing major program within the College.
- At the time of submission, the proposal must include a statement of approval by a faculty advisor chosen from the area of specialization.
- The proposal must indicate that the student has examined the consequences of the proposed program in relation to career goals and post-graduation plans.

COLLEGE OF HUMAN ENVIRONMENTAL SCIENCES

ADMINISTRATIVE OFFICERS

MILLA D. BOSCHUNG, MS, PhD, Dean and Head of the Department of Consumer Sciences.
OLIVIA W. KENDRICK, MS, DrPH, Associate Dean and Head of the Department of Human Nutrition and Hospitality Management.
MARIANNE TIPTON, Executive Secretary.
LORRAINE SIDERS, Administrative Specialist.
CARMEN KELLY, Registrar.
SHIRLEY P. FOSTER, MS, PhD, Interim Head of the Department of Clothing, Textiles, and Interior Design.
LORI W. TURNER, MS, PhD, Head of the Department of Health Science.
CARROLL M. TINGLE, PhD, Head of the Department of Human Development and Family Studies.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to title listed.

BABIARZ, PATRYK, MS (Crowcow University, Poland). PhD (Purdue). Assistant Professor, Department of Consumer Sciences, 2009.
BLAIR, REBECCA J., MS (Alabama). Assistant Professor, Department of Clothing, Textiles, and Interior Design, 2007.
BLUMENTHAL, JASON, MS (Alabama) Instructor, Department of Human Nutrition and Hospitality Management, 2002.
BOLLAND, JOHN M. BA (Washington), PhD (Ohio State), Professor and Research Chairholder, College of Human Environmental Sciences, 2008.
BONNER, JUDITH L., MS (Alabama), PhD (Ohio State). Professor, Department of Human Nutrition and Hospitality Management, 1981, 1990.
BOSCHUNG, MILLA D., MS, PhD (Alabama). Dean, Assistant Professor, and Head of the Department of Consumer Sciences, 1977, 1993.
BOYLE, KIM, MS (Alabama). Assistant Professor, Department of Human Nutrition and Hospitality Management, 1998, 2005.
BRAKEFIELD, JAN L., MS (Alabama). Assistant Professor, Department of Consumer Sciences, 1994, 2005.
BRIDGEWATER, DIANE, MS (Alabama–Birmingham). Instructor, Department of Human Nutrition and Hospitality Management, 2009.
CAUSEY, CHEREE, MA, EdD (Alabama) Assistant Professor and Director of UA Early College, 2009.
COOK, MARTHA J., MA, EdD (Alabama). Associate Professor and Director of RISE, 1987, 1993.
COOK, REUBEN, JD (Alabama), LL.M (Emory). Assistant Professor, Department of Consumer Sciences. 2009.
CURTNER-SMITH, MARY ELIZABETH, MS (North Texas), PhD (North Carolina–Greensboro). Associate Professor, Department of Human Development and Family Studies, 1990, 1996.
DEWITT, REGINA, MA (Alabama). Computer Coordinator and Instructor, Department of Consumer Sciences, 2001.
EDWARDS, SALLY, MS (Alabama). Director, Child Development Resources and Services Program, Department of Human Development and Family Studies, 1990.
ENDERS, LINDA, MS, PhD (Iowa State). Associate Professor, Department of Human Development and Family Studies, 2001.
FAULKNER, CASSANDRA M., MS (Alabama). Instructor, Department of Clothing, Textiles, and Interior Design, 2004.
FOSTER, SHIRLEY P., MS (Alabama–Birmingham), PhD (Alabama). Assistant Professor and Interim Head, Department of Clothing, Textiles, and Interior Design, 1997.
FULMER, CAROLINE S., MS (Purdue University). Assistant Professor, Department of Consumer Sciences, 2007.
GALLOWAY, NANCY, BSN, RN (Alabama). Instructor and RISE Service Coordinator, 1985.
GORDON, BRIAN C., MA (Alabama). Instructor, Department of Health Science, 2003.

GORDON, JEAN, MS (Alabama). Instructor, Department of Human Development and Family Studies, 1996.
HARCROW, ANDREW, MA (Alabama). Instructor, Department of Health Science, 2009.
GREENE, LORI, MS (Alabama–Birmingham). Instructor, Department of Human Nutrition and Hospitality Management, 2009.
HENSON, SUZANNE, MS (Alabama). Assistant Professor, Department of Human Nutrition and Hospitality Management, 2006, 2007.
HERNANDEZ-REIF, MS, PhD (Florida International University). Professor, Department of Human Development and Family Studies, 2006.
HODGE, WILLIAM M., MS (Alabama–Birmingham), PhD (Alabama). Associate Professor, Department of Consumer Sciences, 2009.
HUDSON, CARMEN R., MS (Florida State). Assistant Professor, Department of Human Development and Family Studies, 1975, 1991.
JEON, HYUN-JOO, MS, PhD (Iowa State), Assistant Professor, Department of Human Development and Family Studies, 2007.
KENDRICK, OLIVIA, MS (Auburn), DrPH (California). Associate Dean, Head, and Associate Professor, Department of Human Nutrition and Hospitality Management, 1984, 1991, 2003.
KISSINGER, BEVERLY A., MFA (Georgia). Assistant Professor, Department of Clothing, Textiles, and Interior Design, 1990.
KOONTZ, MARCY L., PhD (Florida State). Associate Professor, Department of Clothing, Textiles, and Interior Design, 1998, 2004.
KNOL, LINDA, MS, PhD (Tennessee). Associate Professor, Department of Human Nutrition and Hospitality Management, 2002, 2009.
LANE, RALPH H., MS (Mississippi State), PhD (Louisiana State). Professor, Department of Human Nutrition and Hospitality Management, 1981, 1990.
LAWRENCE, JEANINE C, MS, PhD (Alabama–Birmingham). Assistant Professor, Department of Human Nutrition and Hospitality Management, 2007.
LEAVER-DUNN, DEIDRE, BS (East Carolina), MEd (Virginia), PhD (Alabama/Alabama–Birmingham). Associate Professor, Department of Health Science and Athletic Training Program Director, 1998, 2003.
LEE, CHANG, BS (Black Hills State), MS, (Delta State), PhD (Oklahoma State). Assistant Professor, Department of Human Nutrition and Hospitality Management. 2008.
LEE, MICHELLE, MS (Alabama). Instructor, Department of Clothing, Textiles, and Interior Design. 2006
LIAN, BRAD, MA, PhD. (Alabama). Research Scientist. College of Human Environmental Sciences, 2008.
LIVINGSTON, JILL, MA (Alabama). Instructor and Assistant Director of RISE, 1988.
MAIZE, ROY S., II, MS, PhD (Ohio State). Associate Professor, Department of Human Nutrition and Hospitality Management and Director, Restaurant, Hotel, and Meetings Management Program, 2000.
MAKI, KRISTIN, MFA (SCAD). Assistant Professor, Department of Clothing, Textiles, and Interior Design, 2008.
MCFADDEN, ANNA C., PhD (Missouri). Associate Professor, Institute for Interactive Technology, 1989, 1994.
MCGAHEY, COURTNEY LANEY, MS (Alabama). Assistant Professor, Department of Consumer Sciences, 2001, 2005.
NEGGRERS, YASMIN, MS (Tennessee). DrPH (Alabama–Birmingham). Professor, Department of Human Nutrition and Hospitality Management, 1980, 1993.
NIUH, ALVIN, MS (Alabama). Assistant Professor, Department of Human Nutrition and Hospitality Management, 1998, 2005.
PEASLEE, JOHN E., MA (California State University: Chico). Assistant Professor, Department of Clothing, Textiles, and Interior Design, 1995.
PEEPLES, VICTORIA D., MS (Alabama). Assistant Professor, Department of Human Development and Family Studies, 1996, 2006.
PENTECOST, EVE, MS (Alabama). Assistant Professor, Department of Consumer Sciences, 2002, 2005.
PRICE, BARRIE JO, BS (Arkansas), MS (Purdue), EdD (Arkansas). Professor, Institute for Interactive Technology, 1989.

ROBB, CLIFFORD, MS (Alabama) PhD (Missouri). Assistant Professor, Department of Consumer Sciences, 2007.

ROBINSON, PAULA H., MS (Alabama). Instructor, Department of Clothing, Textiles, and Interior Design, 1987.

SCOFIELD, JASON, MA, PhD (Arkansas). Assistant Professor, Department of Human Development and Family Studies, 2003.

SICKLER, STEPHANIE, MFA (Florida State). Assistant Professor, Department of Clothing, Textiles, and Interior Design 2009

STINNETT, NANCY, MS (Oklahoma State University). Instructor, Department of Human Development and Family Studies, 1988.

STINNETT, NICK, MS, PhD (Florida State). Professor, Department of Human Development and Family Studies, 1987.

THOMPSON, AMANDA. MS, PhD (Ohio State). Associate Professor, Department of Clothing, Textiles, and Interior Design, 2003.

TINGLE, CARROLL, MS, EdD (Alabama). Assistant Professor and Head, Department of Human Development and Family Studies, 1971, 2004.

TONG, MICHELLE, PhD (Missouri). Assistant Professor, Department of Clothing, Textiles, and Interior Design, 2008

TURNER, LORI, PhD (Alabama). Professor and Head, Department of Health Science, 2006.

UMSTATTD, M. Renee, PhD (South Carolina). Assistant Professor, Department of Health Science, 2006.

USDAN, STUART, PhD (Alabama–Birmingham). Associate Professor, Department of Health Science, 2005.

WIMBERLEY, VIRGINIA S., MEd (Pennsylvania State), PhD (Ohio State). Assistant Professor, Department of Clothing, Textiles, and Interior Design, 1992.

WOODYARD, ANN, MBA (North Carolina), PhD (Kansas State). Assistant Professor, Department of Consumer Sciences, 2009.

WRIGHT, KENNETH E., BS (Eastern Kentucky), MS (Syracuse), DA (Middle Tennessee). Professor, Consumer Sciences, 1988, 1998.

ZEMKE, JERI E., BS (Western Illinois), MS (Georgia Southern), PhD (Alabama/Alabama-Birmingham). Assistant Professor, Department of Health Science, and Clinical Coordinator, Athletic Training Education Program, 2006, 2008.

Emeriti

ABDEL-GHANY, MOHAMED, MS (Iowa State), PhD (Missouri). Professor Emerita, Department of Consumer Sciences, 1978.

BALENTINE, MARGARET B., MA, EdD Associate Professor Emerita, 1978, 1996.

BURTON, DORIS PLAGGE, MS Professor Emerita, Department of Clothing, Textiles, and Interior Design, 1949, 1986.

CALLIS, CAROLYN, MS, PhD. Associate Professor Emerita , Department of Clothing, Textiles, and Interior Design, 1985, 2008.

CRENSHAW, MARY A., Professor Emerita and Dean Emerita of the School of Home Economics, 1967, 1984.

DARDEN, LEATHA, MS, PhD Associate Professor Emerita, Department of Clothing, Textiles, and Interior Design, 1975, 2001.

HANCOCK, SHELLEY R., Assistant Professor Emerita, Department of Human Nutrition and Hospitality Management, 1996, 2005, 2006.

HODGES, PATRICIA, A.M., MEd, EdD Associate Professor Emerita, Department of Human Nutrition and Hospitality Management, 1988, 2000.

JACKSON, ERNESTINE, MS Assistant Professor Emerita, Department of Human Nutrition and Hospitality Management, 1964, 1988.

JAMES, DENNIS C., MA, PhD Associate Professor Emeritus, Department of Clothing, Textiles, and Interior Design, 1971, 2004.

JESSEE, PEGGY, MS, PhD (Alabama). Professor Emerita, Department of Human Development and Family Studies, 1989, 1993, 2005.

LADEWIG, BECKY, MS, PhD Associate Professor Emerita of Human Development and Family Studies, 1973, 1996.

LUCK, CYNTHIA M., MFA, MS Assistant Professor Emerita, Department of Clothing, Textiles, and Interior Design, 1985, 2003.

MEYER, FRIEDA, MS, PhD Professor Emerita, Department of Food and Nutrition, 1954, 1970.

PARKER, SUE M., MS, EdD Assistant Professor Emerita, Department of Clothing, Textiles, and Interior Design, 1970, 1994.

ROPER, LYDIA, MS, PhD Associate Professor Emerita, Department of Clothing, Textiles, and Interior Design, 1976, 2001.

STEWART, CAROLYN T., MS Associate Professor Emerita, Department of Clothing, Textiles, and Interior Design, 1955, 1985.

STITT, KATHLEEN, MS, PhD Professor Emerita, Department of Human Nutrition and Hospitality Management, 1955, 1993.

STRICKLAND, MARTHA S., MS Assistant Professor Emerita, Department of Human Development and Family Studies, 1966, 1994.

SWITZER, MILDRED, MS Instructor Emerita, Department of Human Nutrition and Hospitality Management, 1993, 2009.

CAPSTONE COLLEGE OF NURSING

DEGREE OFFERED

The Capstone College of Nursing (CCN) awards the degree of bachelor of science in nursing (BSN).

LICENSURE

Upon completion of the program, students meet the educational qualifications of the Alabama Board of Nursing for taking the National Council Licensure Examination for Registered Nurses. Completion of the academic program in no way assures the student of licensure. No employee, agent, or representative of this university is authorized or empowered to provide such assurances either directly or by implication.

ADMISSION AND PROMOTION REQUIREMENTS

Admission to Lower Division

Students are admitted to the Capstone College of Nursing when they meet University of Alabama admission requirements. Students are encouraged to acquaint themselves with general academic regulations of the University as stated in "Admissions" elsewhere in this catalog. Transfer students are encouraged to seek advisement from the Capstone College of Nursing Office of Nursing Student Services. Knowledge of policies and procedures is the student's responsibility. Detailed policies and procedures are contained in the Capstone College of Nursing student handbook, which is on the Capstone College of Nursing Web site (nursing.ua.edu). Students are notified of any policy changes. It is the student's responsibility to abide by the most recently published or posted policies and procedures. An official, current copy of the handbook is available in the office of the director of undergraduate programs.

Promotion to Upper Division

Application forms for promotion to the upper division may be obtained from the College Web site (nursing.ua.edu). It is the student's responsibility to secure an application and to submit it by the deadline. Applicants for the upper division must have been admitted to The University of Alabama prior to submitting an application for upper division.

Promotion Policies

1. To progress to the professional component of the nursing curriculum, a student must possess a functional level of capability to perform the duties required of a professional nurse. These abilities include, but are not limited to, (a) adequate vision such as that required to observe changes in physical conditions, to read small print on labels and laboratory reports, and to discern subtle changes in color; (b) adequate hearing such as that required to distinguish muted sounds through a stethoscope; (c) fine motor skills and manual dexterity such as those required to handle small, delicate equipment; (d) strength such as that required to turn and assist with lifting adults and to lift and carry children; (e) the mobility to respond quickly to emergency situations; (f) the ability to engage in two-way conversation and interact effectively with others orally and in writing; (g) the ability to detect odors; and (h) the ability to consistently and dependably engage in critical thinking to make safe and ethical clinical judgments.

The faculty of the Capstone College of Nursing has identified the skills and professional behaviors that are essential to pursue a course of study to be eligible to take the National Council Licensure Examination-RN and to practice as a professional nurse. These skills include, but are not limited to, the skills presented in *The Essentials of Baccalaureate Education for Professional Nursing Practice*, a publication of the American Association of Colleges of Nursing. If these skills and professional behaviors cannot be developed by the student, either unassisted or with the dependable use of assistive devices, the faculty reserves the right to disenroll the student from clinical courses. A copy of *The Essentials of Baccalaureate Education for Professional Nursing Practice* is available upon request from the College's Office of Academic Programs.

2. Promotion to the upper division requires successful completion of the lower-division courses designated on the CCN BSN program of study.

Students may apply and be considered for promotion to the upper division during the final lower division semester if they will have completed all courses prior to the semester for which application to the upper division is made. In such instances, promotion to the upper division may be granted conditionally, pending successful completion of all courses required for promotion. Promotion to the upper division may be withdrawn if the level of academic performance is significantly lower in those courses completed after conditional promotion.

3. Only those applicants whose grade point averages are at least 3.0 for the required courses in the lower division and whose grade point averages are at least 2.75 for the required science courses are eligible to apply for promotion. Meeting minimum requirements does not guarantee promotion to the upper division of the nursing curriculum.
4. Spaces in the upper division are limited. When the number of students seeking promotion to the upper division exceeds the number of spaces available, the most qualified applicants will be promoted. Those applicants who present the strongest academic records and who show the most promise for success in the upper division will be promoted. Native UA students are defined as those who have completed 32 or more hours of the required lower division coursework at UA or through Advanced Placement or Dual Enrollment courses completed in high school.
5. Transfer students are defined as those students who have completed less than 32 hours of the required lower-division coursework at The University of Alabama. A transfer student may be accepted into the upper division when the academic record, taken as a whole, presents evidence of outstanding academic performance and a strong likelihood of success in the upper division.
6. The number of students promoted each semester is dependent upon available resources. Promotion to upper division is competitive.
7. Applications and deadlines for promotion to the upper division may be obtained online at nursing.ua.edu.

Upon progression to the upper division, permission to depart from the clinical sequence must be obtained from the director of undergraduate programs. Because of the limitations in clinical course spaces, departure from the sequence for any reason may significantly lengthen the time for program completion.

Transfer from a BSN Nursing Program

Students requesting a transfer to the upper division of the nursing program from another BSN program must follow the promotion policies above. Additional criteria for consideration for admission of a student who has attended another BSN program include the following:

- (1) a letter of good standing from all BSN nursing program(s)
- (2) a minimum of a 3.0 overall GPA
- (3) a minimum of a 3.0 GPA on nursing courses completed
- (4) a minimum of a 2.75 GPA on all science courses completed

Spaces in the upper division are limited. When the number of students seeking promotion to the upper division exceeds the number of spaces available, the most qualified applicants will be promoted. Those applicants who present the strongest academic records and who show the most promise for success in the upper division will be promoted. Native UA students will be given preference for promotion over transfer students. Native UA students are defined as those who have completed 32 or more credit hours of the required lower division coursework at UA or through advanced placement or dual enrollment courses completed in high school.

Withdrawal from the First Clinical Nursing Course

Any student who withdraws from or does not successfully complete the first clinical nursing course in the upper division must contact the director of the undergraduate nursing program to be considered for placement in

the course the next semester. The student will be placed in the course on a space-available basis only. Before considering placement of any students who have not succeeded in the course, preference for spaces will be given to those applicants who meet all promotion criteria and who have not previously been promoted. If space becomes available for a student's reassignment to the course, a second unsuccessful attempt by that student in any other clinical course will result in academic suspension from the Capstone College of Nursing.

Return to the Undergraduate Nursing Program after a Nonacademic Leave of Absence

Following a nonacademic leave of absence (e.g., military, medical, or other) from the Capstone College of Nursing for six or more months, a student's academic record and time elapsed since completing clinical nursing courses will be reviewed by the director of the undergraduate program to facilitate the student's readiness to re-enter the program.

Individualized plans will be negotiated with the student to facilitate a smooth transition into the program and may include knowledge-refresher activities, either informal or formalized independent study.

Components of the refresher plan may include, but are not limited to, the following:

- (1) review of medication calculations and completion of a medication-calculation exam
- (2) review of health-assessment materials such as videotapes
- (3) review of appropriate charting and documentation methods
- (4) practice with medication administration such as PO, IM, and IV
- (5) practice with skills such as foley catheter insertion, NG tubes, suctioning, sterile dressing changes, injections, and IV insertion
- (6) review of content from an NCLEX Review book of content areas previously completed

This option is offered to facilitate the student's successful re-entry into the BSN program. The student assumes responsibility for his or her learning and is encouraged to seek needed assistance.

SPECIAL SERVICES, PROGRAMS, AND EDUCATIONAL OPPORTUNITIES

Academic Advising

The academic advisor in the Office of Nursing Student Services assists students regarding academic matters. Students may make an appointment to meet with the academic advisor for academic matters at any time during the semester. Academic matters include course sequencing, withdrawals, dropping and adding courses, academic progression, registration and academic problems. Faculty mentors are available to advise and mentor students regarding career goals and questions about the nursing field. Students may request a faculty mentor by submitting the faculty mentor request form to the ONSS. Faculty mentor request forms are available online at nursing.ua.edu.

Preregistration advising:

A. Lower Division

- (1) Students must attend a preregistration advising session each semester to be cleared to register unless they have been cleared by the academic advisor during that semester. A student who does not complete a designated advisement session during the scheduled period will be required to register during late registration and pay the associated fee.
- (2) Information about advising and registration is provided on the Web at nursing.ua.edu.

B. Upper Division

- (1) Upper Division students participate in a preregistration group advising session facilitated by undergraduate faculty during the designated preregistration advising period in the fall and spring semesters.
- (2) CCN provides specific information to upper-division students about clinical schedules.

- (3) There is no late registration for clinical nursing courses. If extenuating circumstances have made regular registration for clinical courses impossible, approval for late registration in these courses may be requested from the director of undergraduate programs.

Transfer Credit

Transfer credit is accepted if the course content is deemed equivalent to that required in the curriculum of the College. Evaluation is based on course content, the grade earned, and credit earned.

Successful completion of examinations available through the University Testing Services may satisfy certain general education requirements. See the "Credit for Examination Performance and Experience" section of this catalog.

Credit Courses Taken in the College of Continuing Studies (Correspondence or Independent Study Courses)

Selected general education courses required for the degree of bachelor of science in nursing may be taken from the independent study program of the College of Continuing Studies with prior approval of the Director of Nursing Student Services. (See the section on the College of Continuing Studies for details of the independent study program.)

GENERAL DEGREE REQUIREMENTS Standards of Conduct

The nursing student shall comply with legal, moral, and legislative standards that determine unacceptable behavior of the nurse and that may be cause for denial of a license to practice as a registered nurse, in accordance with the Alabama law regulating practice of registered and practical nursing stated below.

The board shall have the power to deny, revoke, or suspend any license issued by it or to otherwise discipline a licensee upon proof that the licensee is guilty of fraud or deceit in procuring or attempting to procure a license; has been convicted of a felony; is guilty of a crime involving moral turpitude or of gross immorality that would tend to bring reproach upon the nursing profession; is unfit or incompetent due to personal habits; is habitually intemperate due to the use of alcohol or is addicted to the use of habit-forming drugs to such an extent as to render him or her unsafe or unreliable as a licensee; has been convicted of any violation of a federal or state law relating to controlled substances; is mentally incompetent; is guilty of unprofessional conduct of a character likely to deceive, defraud, or injure the public in matters pertaining to health; or has wilfully or repeatedly violated any of the provisions of this article as defined by board rules and regulations.*

Failure to comply with any of the above stipulations while in the nursing program constitutes grounds for dismissal from the program.

It is important for nursing students to know about the Alabama Board of Nursing's regulations governing review of candidates for eligibility for initial and continuing licensure. There will be questions on the application to take the examination for licensure as a registered nurse that ask "Have you ever been arrested for or convicted of a criminal offense?" and "Have you ever been arrested for or convicted of driving under the influence of drugs/alcohol?" Application to take the examination may be denied on the basis of this review. Although these policies apply specifically in Alabama, other states have similar stipulations for licensure.

*Alabama Board of Nursing Administrative Code, September 1997.

Essential Skills and Behaviors

See "Promotion Policies," Item 1, earlier in this section.

Hours and Grade Points

- The student must complete a minimum of 127 hours* of academic credit approved by the Capstone College of Nursing to meet the requirements for the degree of bachelor of science in nursing. Additional courses may be necessary for students to meet the University Core Curriculum requirements.
- All coursework leading to the BSN degree, including electives, requires a minimum grade of "C-."

*Any reference to hours indicates semester hours unless otherwise noted.

CPR Certification

Evidence of current certification as a professional-level provider of cardiopulmonary resuscitation (CPR) is required for registration in all clinical nursing courses. Students are responsible for obtaining and maintaining current CPR certification while enrolled in the Capstone College of Nursing. Certification must be renewed annually and verified through presentation of a CPR card to the Office of Nursing Student Services.

Verification of Health Status

A health form must be completed prior to matriculation in the upper division and prior to beginning senior-level courses if the student's health status has changed. The health form is available from the Capstone College of Nursing ONSS and must be completed by a licensed physician or a certified nurse practitioner. Students must also present documentation of immunization against hepatitis B and other specified communicable diseases prior to progressing to Semester II upper division courses and prior to the beginning of the senior year.

Prerequisites

Many lower-division courses have specific prerequisites. See course descriptions for prerequisites or contact the Office of Nursing Student Services for detailed information.

Policies Governing Progression and Graduation

Upon promotion to the upper division, students progress to clinical nursing courses in the established sequence. If a student's progression is interrupted for any reason, it is the student's responsibility to contact the director of the undergraduate nursing program to request consideration for reassignment. Because spaces in clinical courses are limited, any alteration of the usual progression may lengthen the student's program of study.

To be eligible for the degree of bachelor of science in nursing, a candidate must show successful completion of the courses required in the nursing program of study and complete a minimum of 32 semester hours at The University of Alabama.

Academic Probation and Suspension

• The general academic scholarship rules of the University apply to students enrolled in the Capstone College of Nursing; however, any written agreements entered into by students and the dean of the College take precedence over the University's general rule. See the "Student Records and General Academic Policies" section of this catalog for further details.

• Any student who receives a second "D" or "F" in any nursing course, or in any combination of nursing courses, will be academically suspended from the Capstone College of Nursing.

Readmission of Academically Suspended Students

After a lapse of one regular semester from the last date of enrollment, a student who has been suspended by the Capstone College of Nursing may apply for readmission through the Office of Academic Programs. This application may be submitted immediately after notification of suspension. The application, the student's record of performance, and other pertinent information submitted by the student will be reviewed, and a recommendation concerning the application for readmission will be made to the dean of the College. Students who are suspended a second time are placed on indefinite academic suspension.

Readmission following Withdrawal

A student who has withdrawn from the upper division of the Capstone College of Nursing and who wishes to be readmitted after an absence of one semester or more must do the following:

- (1) For information about the readmission process, contact the director of the undergraduate program.
- (2) To apply for readmission, contact the office of the associate dean for academic programs of the Capstone College of Nursing.
- (3) Apply for readmission to the University by contacting undergraduate admissions.

Permission to return to the Capstone College of Nursing will depend on the student's previous performance and the availability of space in the required nursing courses. Readmission may require repeating courses to ensure that knowledge is current.

Maximum Hours

A student may not exceed a course load of 18 semester hours except with the approval of the dean.

Policy on Repeating Courses

• A record of all courses attempted will appear on the student's transcript.

• If a grade below "C-" is received in any course required in the program of study, the course must be repeated on a space-available basis.

Pass/Fail Option

With special permission, a student may choose to receive a grade of "Pass" ("P") or "Fail" ("F") for a course instead of the conventional "A," "B," "C," "D," or "F." If a "P" is earned, the hours count, but the grade point average is not affected. If an "F" is earned, the grade point average is reduced.

- Only elective courses may be taken pass/fail.
- Courses used to meet University Core Curriculum requirements may not be taken on a pass/fail basis.
- Forms for the pass/fail option may be obtained from the College's ONSS.
- See the "Student Records and General Academic Policies" section of this catalog for further details.

Administrative Withdrawal from Clinical Nursing Courses

Students' clinical experiences are considered a vital part of learning the practice of professional nursing, and faculty guidance is available in facilitating these learning experiences. As students progress through the program of study, they are expected to increase their abilities to function independently and assume responsibility for their actions. When a student's clinical decision making is deemed by faculty to constitute unsafe or unethical nursing practice, or when there is lack of adherence to established policies and procedures related to professional conduct, the student will receive a failing grade in the course and will be withdrawn from the course and/or suspended from the program. Administrative withdrawal procedures are initiated by faculty through the office of the associate dean for academic programs. Further progression in the Capstone College of Nursing is determined according to the rules for academic probation and suspension and the availability of space.

Auditing Courses

Clinical nursing courses are not open to auditors.

Clinical Nursing Expenses

Standard University of Alabama tuition is charged for enrollment in clinical nursing courses. In addition to textbook expenses, clinical nursing students are responsible for the provision of uniforms and supplies for performance in the clinical area. Students are responsible for their own transportation to and from all clinical experiences. The expense of required liability insurance and standardized test fees is also the responsibility of the student. Detailed information on ordering uniforms and supplies will be furnished when students are promoted to the upper division of the nursing program.

In addition to standard University fees, a laboratory fee is assessed when students are enrolled in nursing courses. Costs for textbooks, physical-assessment equipment, PDA, PDA software, and other supplies for the first semester of upper-division work substantially exceed those of subsequent semesters.

Late Registration

There is no late registration for clinical nursing courses.

Time Limit

If upper-division requirements for the degree have not been completed within five years after initial registration in the Capstone College of Nursing, the student's academic record will be reviewed to establish appropriate changes or requirements. Any student who has not enrolled in upper-division courses for more than one semester is required to seek approval from the director of undergraduate programs prior to registration to enroll in any subsequent courses. Approval may require repeating courses to ensure that knowledge is current.

Exit Exams

Students are required to make passing scores on all standardized exit exams given in the College. A student who fails to achieve a satisfactory score must complete a remediation program. Failure to satisfactorily complete the standardized program exit exam in the last semester of the program may delay the student's graduation from the BSN program.

Review Course

Each student is strongly encouraged to take a review course near the end of the BSN program in preparation for the National Council Licensure Examination (NCLEX).

BSN Degree*

The degree of bachelor of science in nursing requires the completion of the courses designated in the following program of study. Elective hours may be used to complete a major portion of the University Core Curriculum; additional courses, however, may be required. Students may choose to enroll in a summer session(s) to meet requirements and to adjust the program of study to meet individual needs. Students should also review core curriculum requirements in the "Student Records and General Academic Policies" of this catalog. Bold letters indicate courses that meet specific University Core Curriculum requirements. Clinical nursing courses are not taught in summer sessions.

*The Capstone College of Nursing reserves the right to make modifications in its program and policies as necessary, but every effort will be made to implement the general program for full-time students.

LOWER-DIVISION REQUIREMENTS—GENERIC BSN (SAMPLE)

FRESHMAN YEAR

	Hours
Fall Semester	
CH 104 Introductory Chemistry with lab (N)	4
EN 101 English Composition I (FC)	3
PY 101 Introduction to Psychology (SB)	3
NUR 102 Introduction to Professional Nursing	1
Fine Arts (FA).....	3
HD 101 Human Development (SB)	3

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NOTE: NUR 102 is not a required course and will not be considered in Upper Division promotion.

	Hours
Spring Semester	
CH 105 Introductory Organic Chemistry with lab (N).....	4
EN 102 English Composition II (FC)	3
MATH 110 Finite Mathematics or higher math course (MA)	3
*History (HI)	3
CS 102 Microcomputer Applications.....	3

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SOPHOMORE YEAR

	Hours
Fall Semester	
BSC 215 Human Anatomy and Physiology I with laboratory.....	4
SOC 101 Introduction to Sociology or ANT 102 Introduction to Cultural Anthropology (SB)	3
NHM 101 Introduction to Human Nutrition.....	3
Literature (L)	3
Foreign Language or Computer Science (FL or C).....	3

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Notes: Students who opt to complete the foreign language sequence (FC) must also complete CS 102 (C), which is a prerequisite to NUR 309. Consult with the Office of Nursing Student Services Academic Advisor for appropriate courses to satisfy these requirements.

	Hours
Spring Semester	
BSC 216 Human Anatomy and Physiology II	4
BSC 242 Microbiology and Man (N)	4
PHL 204 Medical Ethics or PHL 200 (HU)	3
*Literature (L)	3
Statistics	3

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*History/Literature Note: All students are required to complete a 6-credit-hour sequence in either history or literature. Students opting to enroll in the literature sequence must also complete an approved 3-credit-hour history course. Students opting to enroll in the history sequence must also complete two approved 3-credit-hour literature courses or one approved literature course and one additional approved humanities course.

UPPER-DIVISION REQUIREMENTS—GENERIC BSN

SOPHOMORE YEAR

	Hours
Summer Session¹	
NUR 305 Human Pathology	3
NUR 307 Medication Calculation.....	1
NUR 308 Conceptual Foundations for Professional Nursing	3
NUR 309 Nursing Informatics (C).....	3

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JUNIOR YEAR

	Hours
Fall Semester	
NUR 324 Fundamentals of Professional Nursing Practice.....	9
NUR 326 Pharmacology for Nursing Practice	3

12

	Hours
Spring Semester	
NUR 328 Introduction to Nursing Research (W)	3
NUR 372 Professional Nursing Practice: Adults.....	8
NUR 374 Professional Nursing Practice: Mental Health	4

15

SENIOR YEAR

	Hours
Fall Semester	
NUR 418 Professional Nursing Practice: Childbearing Families	4
NUR 420 Professional Nursing Practice: Children	4
NUR 422 Professional Nursing Practice: Community Health	4

12

	Hours
Spring Semester	
NUR 471 Professional Nursing Practice: Complex Client Systems	4
NUR 473 Professional Nursing Practice: Leadership in Practice (W)	7
NUR 475 Preparation for Licensure	1

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¹Program of study may also begin in the fall semester.

Total lower-division and upper-division hours: 127

Minors

A student may pursue a minor in any area that has a University-approved minor program and is approved by the ONSS. Consult the departmental listings in this catalog for specific requirements of minor programs. Forms for declaring a minor may be obtained from the ONSS in the Capstone College of Nursing.

Application for Degree

An application for a degree must be completed on the first day of class of the semester during which the student will complete all requirements for the BSN degree. Application forms can be obtained from the ONSS in the Capstone College of Nursing.

RN MOBILITY

Registered nurses who enroll at The University of Alabama may opt to pursue one of two tracks toward the completion of a higher degree or degrees. Students may enroll in either an RN to BSN or RN to BSN/MSN track. Both programs of study allow students to continue working and to complete the majority of required coursework on the Web or by other means of distance education.

RN TO BSN TRACK

The RN to BSN program of study is specifically designed for the registered nurse student to earn a bachelor's degree. The program consists of 68–70 semester hours of lower-division coursework and 25 semester hours of upper-division coursework. Lower-division studies include courses that meet University Core Curriculum requirements for a bachelor's degree. All lower-division hours must be successfully completed prior to enrolling in upper-division courses.

UA LOWER DIVISION REQUIREMENTS

Upon admission to the University as an RN to BSN student, credit for 38 hours of NUR courses is awarded.

Courses	Credit Hours
BSC 215 and BSC 216 Human Anatomy and Physiology I and II.....	8
BSC 242 Microbiology and Man.....	4
CH 104 Introductory Chemistry with laboratory.....	4
CH 105 Introductory Organic Chemistry with laboratory.....	4
CS 102 Microcomputer Applications.....	3
EN 101 and EN 102 English Composition I and II.....	6
HD 101 Human Development.....	3
MATH 110 Finite Mathematics or MATH 112 Precalculus Algebra.....	3
NHM 101 Introduction to Nutrition	3
PHL 204 Medical Ethics or PHL 200 Introduction to Ethics.....	3
PY 101 Introduction to Psychology.....	3
SOC 101 Introduction to Sociology or ANT 102 Introduction to Anthropology	3
Arts (ARH 151, ARH 252, ARH 253, or ARH 254; MUS 121; NEW 212; TH 114; or TCF 112).....	3
Computer science or foreign language.....	6 or 8
Literature or History	9
Statistics (BER 345, PY 211, or ST 260)	3
Total: 68-70	

¹All students are required to complete a 6-credit-hour sequence in either History or Literature. Students opting to enroll in the literature sequence must also complete an approved 3-credit-hour history course. Students opting to enroll in the history sequence must also complete two approved 3-credit-hour literature courses or one approved literature course and one additional approved humanities course.

REQUIRED NURSING COURSES

NUR 319 Nursing Informatics (CS)	3
NUR 329 Inquiry for Evidence-Based Practice (W)	3
NUR 348 Role Transition in Baccalaureate Nursing (W).....	4
**NUR 449 Community Health for Registered Nurses	5
**NUR 455 Leadership and Management Roles for Registered Nurses.....	5
**NUR 465 Complex Client Systems for Registered Nurses.....	5
Total: 25	

^{**}Clinical Course

Total credit hours required for graduation: 128 semester hours

Each of the courses above requires time in addition to class meeting times (e.g., library work, clinical time, or meetings with faculty and student groups).

Promotion to Upper Division

The most qualified applicants will be selected each year for promotion to upper division for the RN to BSN track. The number of applicants promoted is dependent on the educational resources available to support this track. Every effort will be made to promote all applicants who meet the criteria. The application for promotion is due in the Office of Nursing Student Services no later than April 15 prior to each fall semester.

Promotion Criteria: RN to BSN Track. To be eligible for promotion to the upper division, a registered nurse student must have the following:

- satisfactory completion of all lower-division requirements (grade of C or higher)
- an overall grade point average of 2.5 on a 4.0 scale on the required lower-division courses
- an overall grade point average of 2.0 on all required science courses
- an unencumbered RN license in the state where clinical course requirements will be completed
- graduation from an NLN-AC accredited school of nursing

RN TO BSN/MSN TRACK

The RN to BSN/MSN program of study is an accelerated option for the experienced, highly qualified RN who holds an associate degree or diploma in nursing. RNs who meet MSN program admission criteria can apply for early admission to the Graduate School while completing the BSN requirements. The RN to BSN/MSN track decreases the time required to complete both the BSN and MSN degree programs. The program of study includes 6–8 semester hours of credit in each of the six semesters required of the track. The BSN degree is awarded after completion of all BSN requirements in the fourth semester. The MSN degree is awarded after completion of all MSN requirements. Two options are available for the RN to BSN/MSN student: nursing case manager or the clinical nurse leader.

Promotion to Upper Division

The most qualified applicants will be selected each year for promotion to the upper division for the RN to BSN/MSN track. The number of applicants promoted is dependent on the educational resources available to support this track. Every effort will be made to promote all applicants who meet the criteria. The application for promotion is due in the Office of Nursing Student Services no later than April 15 prior to each fall semester.

Promotion Criteria: RN to BSN/MSN Track. To be eligible for promotion to the upper division, a registered nurse student must have the following:

- satisfactory completion of all lower-division requirements
- an overall grade point average of 3.0 on a 4.0 scale on the required lower division courses
- an overall grade point average of 2.0 on all required science courses
- an unencumbered RN license in the state where clinical course requirements will be completed
- graduation from an NLN-AC accredited school of nursing

Admission to Graduate School

By October 15 of fall I of the program of study, students can apply for early, expedited admission to the MSN program, contingent on completion of the first semester of BSN coursework with a GPA of 3.0 or higher and completion of all undergraduate core requirements.

LOWER-DIVISION COURSES— RN TO BSN/MSN TRACK

Courses	Credit Hours
BSC 215 and BSC 216 Human Anatomy and Physiology I and II.....	8
BSC 242 Microbiology and Man.....	4
CH 104 Introductory Chemistry with laboratory.....	4
CH 105 Introductory Organic Chemistry with laboratory	4
CS 102	3

EN 101 and EN 102 English Composition I and II.....	6
HD 101 Human Development.....	3
MATH 110 Finite Mathematics or MATH 112 Precalculus Algebra.....	3
NHM 101 Introduction to Nutrition	3
PHL 204 Medical Ethics or PHL 200 Introduction to Ethics.....	3
PY 101 General Psychology.....	3
SOC 101 or ANT 102 Introduction to Sociology or Anthropology.....	3
Arts (ARH 151, ARH 252, ARH 253, or ARH 254; MUS 121; NEW 212; TH 114; or TCF 112).....	3
Computer science or foreign language.....	6 or 8
Literature or History ¹	9
Statistics (BER 345, PY 211, or ST 260)	3

Lower-Division Total: 68–70

¹All students are required to complete a 6-credit-hour sequence in either history or literature. Students opting to enroll in the literature sequence must also complete an approved 3-credit-hour history course. Students opting to enroll in the history sequence must also complete two approved 3-credit-hour literature courses or one approved literature course and one additional approved humanities course.

UPPER-DIVISION AND MSN CURRICULUM— RN TO BSN/MSN TRACK

Fall I

Courses	Semester Hours
NUR 319 Nursing Informatics (CS)	3
NUR 348 Role Transition in Baccalaureate Nursing.....	4
NUR 449 Community Health for Registered Nurses	5
Total: 12	

Spring I

Courses	Semester Hours
NHM 580 Research and Statistics for Health Professionals	3
CHS 520 Basic Epidemiology.....	3
NUR 502 Issues in Community-Based Care for Rural Populations.....	2
Total: 8	

Summer I

Courses	Semester Hours
'NUR 580 Fiscal Resource Management.....	3
NUR 505 Advanced Health Assessment	3
Total: 6	

Fall II

Courses	Semester Hours
NUR 501 Theoretical Models	3
'NUR 522 Human Relations Management (W)	3
² BSC 529 Advanced Pathophysiology.....	3
Total: 9	

Spring II

Course	Semester Hours
NUR 520 Evidence Based Practice or.....	4
NUR 525 Evidence Based Practice for CNL	4
NUR 595 Issues in Pharmacotherapeutics.....	3
Total: 7	

Summer II

Courses	Semester Hours
NUR 530 Case Management Practicum or	6
NUR 535 Clinical Immersion Experience	6
Total: 6	

Upper-Division and MSN Curriculum Total: 48

¹Courses count toward completion of BSN and MSN degree requirements.

²These courses may be taken at UAB or UAH if available and transferred to UA.

CAPSTONE COLLEGE OF NURSING

ADMINISTRATIVE OFFICERS

SARA E. BARGER, DPA, RN, FAAN, Dean.

DONNA R. PACKA, DSN, RN, Associate Dean for Academic Programs.

MARSHA H. ADAMS, DSN, RN, CNE, Director of Undergraduate Programs.

MARIETTA P. STANTON, PhD, RN, CNAA, BC, CMAC, CCM, Director of Graduate Programs.

ADMINISTRATIVE AND PROFESSIONAL STAFF

PRISCILLA PAYNE, Executive Secretary to the Dean.

KAREN SILLIMAN, BS, Administrative Secretary to the Associate Dean for Academic Programs.

JANET THOMPSON, BS, CPA, Manager of Fiscal Affairs.

SHELLEY JORDAN, MSN, RN, JD, Director of Advancement.

REBEKAH M. WELCH, MAED, Director, Office of Nursing Student Services.

VALERIE MILLS, BA, Academic Advisor.

KATARA SMITH, MA, Mentoring and Recruitment Coordinator, RN Mobility Tracks.

CYNTHIA MORRIS, Records Specialist.

BRITTNEY DAVIS, Receptionist.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to title listed.

*ADAMS, MARSHA, RN, BSN, MSN, DSN (Alabama–Birmingham). Associate Professor and Director of Undergraduate Programs, 1983, 1997.

AMBROSE, SANDRA, RN, BSN, MSN (Alabama). Instructor of Nursing, 2006.

BARGER, SARA, RN, BSN, (Maryland), MN (Emory), DPA (Georgia). Professor of Nursing and Dean, 1995.

BARRETT, JENA, RN, BSN (Alabama), MSN, DSN. (Alabama–Birmingham). Associate Professor of Nursing, 1987, 2002.

*BIGHAM, AMY, RN, BSN (Alabama), MSN (Mississippi University for Women). Instructor of Nursing, 2006.

CARTER, MELONDIE, RN, BSN (Troy), MSN, DSN (Alabama–Birmingham). Associate Professor of Nursing, 1994, 2005.

CHESHIRE, MICHELLE, RN, BSN (Auburn), MSN (Alabama–Birmingham). Instructor of Nursing, 2008.

*COLLINS, ANGELA, RN, BSN (Samford), MSN (Medical College of Georgia), DSN. (Alabama–Birmingham). Clinical Professor, 2002, 2009.

DUNKIN, JERI, RN, BSN (East Tennessee State), MPH (Tennessee), PhD (Texas–Austin). Professor and Saxon Chair for Rural Nursing, 1997.

*DUNN, LINDA, RN, BSN (Alabama), MSN (Mississippi University for Women), DSN (Alabama–Birmingham). Professor of Nursing, 1983, 2007.

*GASKINS, SUSAN, RN, BSN (Medical College of Virginia), MPH (Pittsburgh), DSN (Alabama–Birmingham). Professor of Nursing, 1986, 2000.

GRAGG, MONICA, BSN (Alabama), MSN (Alabama). Instructor of Nursing, 2005.

GRAVES, ANN, RN, BSN (Alabama), MSN (Alabama–Birmingham), PhD (University of Mississippi Medical Center). Assistant Professor of Nursing, 1998, 2007.

*HANDLEY, MARILYN, RN, BSN, MSN (Alabama–Birmingham), PhD (University of Mississippi Medical Center). Assistant Professor of Nursing, 1995, 2002.

JOHNSON, PAIGE, RN, BSN, MSN (Alabama). Instructor of Nursing, 2005.

KELLEY, MARY ANN, RN, BSN (Mississippi University for Women), MSN (University of Mississippi Medical Center), DSN (Alabama–Birmingham). Assistant Professor, 2003.

*MARCH, ALICE, RN, BSN, MS, PhD (State University of New York at Binghamton). Assistant Professor of Nursing, 2007.

*MAY, OLIVIA, BSN (Alabama), MSN (Alabama–Birmingham). Instructor of Nursing, 2004.

*MILLS, LISA, BSN (Alabama), MSN (Emory). Instructor of Nursing, 2005. MITCHELL, SUSAN, BSN (Alabama), MSN (Alabama–Birmingham). Instructor of Nursing, 2004.

MONTGOMERY, MICHELE, RN, BSN, MSN, PhD (Alabama–Birmingham). Assistant Professor of Nursing, 2009.

*MORRISON, RUBY, RN, BSN (Mississippi College), MN (Washington), DSN (Alabama–Birmingham). Professor of Nursing, 1988, 2008.

OLIVER, JOANN, BSN (Alabama), MSN (Alabama–Birmingham), PhD (Georgia State). Assistant Professor of Nursing, 2002, 2008.

PACKA, DONNA R., RN, BSN (Murray State), MSN, DSN., (Alabama–Birmingham). Professor and Associate Dean for Academic Programs, 1997.

PALARDY, LESLIE, RN, BSN, MSN (Alabama). Instructor of Nursing, 2007.

PATE, DELTA DERENDA, RN, BSN, MSN (Alabama). Instructor of Nursing, 2008.

*PATTERSON, LINDA, RN, BSN, MSN (Alabama–Birmingham). Instructor of Nursing, 2002.

*SHERROD, ROY ANN, RN, BSN (Alabama), MSN (Mississippi University for Women), DSN (Alabama–Birmingham). Professor of Nursing, 1981, 1996.

TUBBS, LEIGH ANN, RN, BSN, MSN (Alabama). Instructor of Nursing, 2009.

*WYNN, STEPHANIE, RN, MSN (Alabama). Instructor of Nursing, 2005.

*STANTON, MARIETTA P., RN, BSN (Mount St. Mary's College), MA (New York), MS (Salve Regina), PhD. (State University of New York–Buffalo). Professor of Nursing and Director of Graduate Programs, 1999.

*UMLAUF, MARY GRACE, RN, BSN (Texas–Austin), MSN (Alabama–Birmingham), PhD (Texas–Austin). Professor of Nursing, 2008.

VANDERMEER, JEANETTE, RN, BSN (Alabama–Huntsville), MSN (Colorado), DSN (Alabama–Birmingham). Assistant Professor and RN Mobility Coordinator, 1988, 1997.

*WOOD, FELECIA, RN, BSN (Alderson Broaddus), MSN (West Virginia), DSN (Alabama–Birmingham). Associate Professor of Nursing, 1980, 2005.

Emeriti

AWTREY, JANET, RN, DSN. Dean and Professor Emerita of Nursing, 1983, 1994.

CAMERON, JOYCE, RN, MSN. Instructor Emerita of Nursing, 1985, 1990. EDWARDS, REBECCA, RN, MSN. Assistant Professor Emerita of Nursing, 1978, 1996.

LAMMON, CAROL, RN, PhD. Associate Professor Emerita of Nursing, 1987, 2007.

MOBLEY, NORMA, RN, EdD. Dean and Professor Emerita of Nursing, 1982, 1988.

OLIVET, LINDA, RN, DSN. Associate Professor Emerita of Nursing, 1980, 2000.

SKIPPER, GERALDINE, RN, MN. Associate Professor Emerita of Nursing, 1975, 1985.

*These faculty are certified in their areas of clinical specialization.

SCHOOL OF SOCIAL WORK

HISTORY AND OBJECTIVES

The School of Social Work was established in 1965, when an act of the Alabama Legislature created a graduate school of social work, the first graduate social work program in the state. The undergraduate program began in 1970 and a doctoral program was added in 1975. The undergraduate program is the only such program in the state offered within a comprehensive school of social work.

Social work is a challenging and rewarding profession that has as its goal helping people live satisfying lives within their families and their communities. The profession's focus is on action to help people effect positive changes in their lives.

At the bachelor's and master's levels, the School of Social Work prepares social workers to plan, administer, deliver, and evaluate social services for citizens of the state, region, and nation. The bachelor of social work degree prepares the graduate to begin generalist practice in a variety of settings. The master of social work degree prepares the graduate for advanced, specialized practice. The doctor of philosophy degree prepares graduates to develop and impart knowledge to advance the profession. The faculty of the School engage in research and professional activities that are designed to enrich educational programs, improve social conditions, and meet the special needs of the state, region, and nation.

The undergraduate program leads to the bachelor of social work degree. The primary objective of the undergraduate program in social work is the preparation of students for effective practice of professional social work in beginning-level positions. The graduate is prepared as a social work generalist, with skills to assist individuals, families, groups, organizations, and communities in achieving goals, solving problems, and bringing about change where it is needed. Additionally, this program prepares students to enter graduate study in social work or related fields. It also provides interested persons with knowledge of social welfare needs and of the means of providing for those needs. These objectives, however, are secondary to the primary objective of preparation for practice.

Five basic requirements of the BSW program prepare the student for practice as a generalist social worker: required liberal arts courses; elective courses; required social work courses; elective social work courses; and supervised social work field education.

DEGREES OFFERED

The School of Social Work offers the degrees of bachelor of social work, master of social work, and doctor of philosophy.

ADMISSION AND RETENTION REQUIREMENTS

Students entering the School of Social Work as freshmen are required to meet the admissions standards of the University set forth in the section titled "Admissions" in this catalog. The University accepts transferred credit from accredited associate of arts programs (see "Admissions" in this catalog). The School of Social Work also accepts those hours but requires that all students meet the course requirements for the bachelor of social work degree. An evaluation of each transferred course is made by the University's Academic Records office or the registrar of the School of Social Work. Any transfer credit of a social work course must be approved by the program chair. No academic credit, course waivers, or credit for field practicum shall be granted for life experience or for previous work experience.

Transfer credit from four-year institutions is accepted as long as the specified requirements for the BSW degree are met. Credit for 400-level social work courses can be granted only for such courses taken in a CSWE-accredited social work program. Social work courses below the 400 level taken in programs without CSWE accreditation are evaluated for transfer credit on a course-by-course basis. Because of the number of social work courses required of junior- and senior-level students, it is difficult for a transfer student to enter the School of Social Work after the first semester of the junior year and complete the program within an additional two-year period, unless the general education requirements have been completed during the first two years of study. Most transfer students attend at least one summer session.

University of Alabama students who have completed 45 semester hours or more of academic work and who wish to transfer from any other

UA division to the School of Social Work must have grade point averages of 2.0 or higher for all college work.

Admission to the professional program. The priority deadline for application to enter the upper division (professional program) in social work is February 15 of each year for admission in the following fall semester. Application forms are available on our Web site and from the School's registrar.

Each applicant for the professional program should have completed BSC 108 or BSC 109, PY 101, and SOC 101 (or their equivalents). A student who has completed at least two of those courses may apply if he or she is enrolled in the other course at the time of application. An applicant must have qualified for UA Core Curriculum-level math courses either by placement score or by having earned a "C" or higher in MATH 100. To be considered for admission, the student must have completed at least 45 hours toward the degree with an overall grade point average of at least 2.25 and a social work grade point average of least 2.5.

Spaces for students in the upper division are limited. Two faculty readers will score each application. Depending on the number of applications and spaces available, some applicants who meet minimum admissions requirements may be placed on a waiting list. Students who are tentatively admitted during the spring semester must maintain overall grade point averages of at least 2.25 (and 2.5 in social work courses) through the spring semester or the tentative offer of admission will be withdrawn.

After the completion of approximately 54 hours toward the social work degree, with the required overall and social work grade point averages, students who have been admitted to the professional program begin taking the professional courses, which are the 400-level social work courses listed in the "Program Requirements" section that follows.

Performance and retention policies. To continue in the social work professional program, students must meet the following criteria:

- Students must earn minimum grades of "C" in all required social work courses, including two social work electives.
- Students must earn minimum grades of "C" in all other courses required in the major (e.g., BSC 108 or BSC 109; COM 123; PY 101; SOC 101; PY 358; PY 372 or SOC 205; BER 345, CJ 381, PY 211, or ST 260).
- Students must earn a minimum grade of "C" on the designated writing assessment in SW 440 (Social Work with Individual and Families) in the fall of their first year in the professional program. Students who have not earned a "C" on the writing assessment by the end of SW 440 will be placed on probation and will be required to enroll in SW 310 Professional Writing Seminar during the following spring semester. Students must pass SW 310 in order to continue in the professional Social Work Program.

Field Education

Field education, a 9-credit-hour course, is a four-day-per-week learning experience taken during the fall semester of the senior year. Students are given opportunities, under supervision, to develop social work skills. The School of Social Work uses agencies in a variety of settings for field education placements. Students must make arrangements for transportation in order to complete field education requirements. During this semester, students also attend classes at the School of Social Work one day per week.

To be eligible for their field placement, students must maintain overall grade point averages of 2.25 or higher and 2.5 or higher grade point averages in social work courses, and they must have passed a statistics class. Students on probation and/or holding grades of "I" in any social work courses may not be admitted to field education.

GENERAL DEGREE REQUIREMENTS

Students are required to complete a minimum of 120 hours for the degree. Of these, 48 hours must be in social work courses. Required courses are listed in the "Program Requirements" section that follows.

Hours of study for the minor in social welfare. Students in other divisions of the University may earn minors in social welfare by completing 18 hours of social work courses. Course requirements are listed under the "Minor in Social Welfare" section.

Independent study. Independent study is usually arranged in order for the student to pursue a special area of interest in social work or social welfare that is not covered in courses regularly offered. To arrange an independent study course, the student should obtain permission from his or her advisor, work out the goals and objectives of the course with the supervising instructor, and secure a recommendation from the program chair and approval from the assistant dean for educational programs and student services. Independent study must be approved no later than the last day of class of the semester preceding the semester of the course. Such courses may be dropped according to University policy.

Course substitution. Occasionally, a student may wish to substitute another course for a required course. All such requests should first be presented to the student's advisor, who will weigh the merits of course substitution and determine whether the content of the proposed course is appropriate as a substitute. Decisions on course substitutions are made by the program chairperson.

Concurrent enrollment. A student who wishes to take courses at another college or university during a summer or regular semester should, after talking with his or her advisor, check with the School of Social Work registrar's office to determine whether the courses will transfer to the School of Social Work. Prior approval must be received in order for transfer credit to be accepted toward degree requirements.

Second bachelor's degree. A student with a bachelor's degree in a major other than social work may take courses leading to a bachelor's degree in social work as a second degree. To qualify to enroll in social work courses as a major, the student is expected to meet all requirements for admission (i.e., 2.25 overall GPA and 2.5 GPA in social work courses, a completed application for admission, and a passing score on the writing examination). The student is also expected to complete, in residence and with the required overall and social work GPAs, the specified social work courses for the BSW degree. The student is also expected to take other courses common to social work majors, such as 4 hours of biological sciences. Students interested in a second degree should also refer to the University's requirements listed under the "Second Baccalaureate Degree" section of this catalog found at "Academic Records and General Academic Policies."

PROGRAM REQUIREMENTS

The following courses are required for the BSW degree and include University Core Curriculum requirements as well as the state's general education requirements. Students must complete the foreign language (FL) requirement. (See "Core Curriculum/General Election Requirements" in this catalog.)

Courses	Hours
Two of the following courses ¹	6
ANT 100, ANT 102, ANT 103, ANT 270, EC 110, EC 111, GY 105, GY 110, PSC 101, PSC 103, PSC 211, or a freshman seminar, with advisor's approval	
Statistics (BER 345, CJ 381, PY 211, or ST 260)	3
BSC 108 or BSC 109 with lab (N)	4
COM 123 (H)	3
EN 101 and EN 102, or EN 101 and EN 103 (FC)	6
HY 101 or HY 102 (HI) ²	3
PY 101 (SB)	3
PY 358	3
SOC 101 (SB)	3
SOC 205 or PY 372	3
SW 100	3
SW 200	3
SW 351	3
SW 401 (W)	3
SW 410	3
SW 411	3
SW 420	3
SW 440 (W), SW 441, and SW 442	9
SW 443	3
SW 490	9
Fine arts (FA)	3
Foreign language (FL)	4-8
Free electives	11-15
Humanities (HU) or fine arts (FA) or literature electives (L) ²	3
Literature (L) ²	3

Mathematics (MA) ³	3
Natural science with lab (N)	4
Social work electives (two courses)	6

Total: 120

¹At least one course must hold the SB designation, and the two courses selected must not be from the same department.

²Students must have a two-course sequence in either HI or L.

³Math courses have prerequisites that must be met.

Sample Course Sequence

A student may choose to vary the sequence of courses outside the School of Social Work and take some electives in the freshman and sophomore years. However, EN 101 and EN 102, the freshman composition courses, must be taken in the freshman year. A student may be able to take fewer hours than the 15-16 hours per semester by going to summer session.

FRESHMAN YEAR

First Semester	Hours
Courses	
EN 101.....	3
PY 101.....	3
SW 100.....	3
Foreign language.....	3-4
Freshman seminar (elective).....	3
	15-16

Second Semester	Hours
Courses	
Mathematics above MATH 100	3
EN 102 or EN 103	3
SOC 101.....	3
Fine arts (FA).....	3
Foreign language.....	3-4
	15-16

SOPHOMORE YEAR

First Semester	Hours
Courses	
BSC 109 with lab.....	4
EC 110 or PSC 101	3
HY 101 or HY 102	3
SW 200.....	3
Literature (L) course.....	3
	16

Second Semester	Hours
Courses	
COM 123	3
SOC 205 or PY 372	3
(HI) or (L) course	3
SW 351	3
Social work elective	3
	15

JUNIOR YEAR

First Semester	Hours
Courses	
Statistics	3
PY 358*	3
SW 410	3
Natural science with lab.....	4
SW 440	3
	16

Second Semester	Hours
Courses	
SW 401	3
SW 411	3
SW 441	3
SW 442	3
GY 110 or ANT 102.....	3
	15

SENIOR YEAR

First Semester		Hours
Courses		
SW 490.....		9
SW 443.....		3
SW 420.....		3
	15	

Second Semester		Hours
Courses		
Free elective or (HU)/(FA)/(L) course	3	
Free electives	5–7	
Social work elective	3	
	11–13	

*Social work majors are permitted to take PY 358 without having completed the usual 6 hours of prerequisites.

Social work electives. Enrollment in social work electives is open to all University students. Electives vary with semester and year. Some may be offered during Interim session. The following courses are among those typically offered during a two-year period.

- SW 206 Growing Old in America
- SW 208 Juvenile Delinquency: Causes, Control, and Services
- SW 210 Family and Child Welfare
- SW 212 Death, Dying, and Bereavement
- SW 300 Special Topics
- SW 345 Traumatic Stress in Social Work: Education, Practice, Policy, and Research
- SW 414 Chemical Dependency
- SW 419 International Social Development
- SW 437 Forensic Social Work
- SW 498 Independent Study

MINOR IN SOCIAL WELFARE

A student who is majoring in another UA college may declare a minor in social welfare, subject to the requirements of his or her college. Requirements for an undergraduate minor in social welfare are as follows: SW 100, SW 200, SW 351, and 9 additional hours of social work courses to be selected from among the courses open to non-social work majors and for which students completing the minor have successfully passed the appropriate prerequisites. One of these courses must be at the 300 or 400 level. Social welfare minors may not take social work practice courses, including SW 440, SW 441, SW 442, SW 443, and SW 490. A student who plans to declare a minor in social welfare should go to the School of Social Work registrar's office, 106 Little Hall, to complete appropriate forms.

SCHOOL OF SOCIAL WORK

ADMINISTRATIVE OFFICERS

JAMES A. HALL, PhD, Dean.

KATHLEEN A. BOLLAND, PhD, Assistant Dean for Educational Programs and Student Services.

WESLEY T. CHURCH, II, PhD, Chairperson of the PhD Program.

TYRONE CHIWAI CHENG, PhD, Chairperson of the MSW Program.

JAVONDA D. WILLIAMS, PhD, Chairperson of the BSW Program.

BARBARA CHANDLER, MSW, Coordinator of Field Education.

DAVID E. POLLIO, PhD, Research Director.

FACULTY

First date refers to original appointment to the University. Second date, if any, refers to date of appointment to rank listed.

BOLLAND, KATHLEEN A., BA (Oakland), MS (Washington), PhD (Alabama). Assistant Professor and Assistant Dean for Educational Programs and Student Services, 1985, 2008.

CHAMPION, KATHLEEN, W., BS, MSW (Alabama). Instructor and Coordinator of Distance Learning and Instructional Technology, 2007.

CHANDLER, BARBARA, BSW, MSW (Alabama). Assistant Professor and Coordinator of Field Education, 2001.

CHENG, TYRONE CHIWAI, MSW, PhD (University of Alabama). Associate Professor, 2008.

CHURCH, WESLEY T., II, BA, MSW, PhD (Utah). Associate Professor 2003, 2009

CSIKAI, ELLEN L., BA, MPH., MSW, PhD (Pittsburgh). Associate Professor, 2003.

DROLEN, CAROL S., BS (Loyola of Chicago), MA (Chicago), PhD (Southern California). Associate Professor, 1987, 1993.

HALL, JAMES A., BA (University of Minnesota), AM (University of Chicago), PhD (University of Wisconsin-Madison), Professor and Dean, 2008, 2009.

HERRIN, CHARLOTTE B., BSW, MSW (Alabama). Instructor, 2000.

HOBBS, FAY WILSON, BS (Hollins College), MSW (Florida State), JD (Washington and Lee). Instructor, 1998.

KOSBERG, JORDAN I., BS, MSW (Wisconsin-Milwaukee), PhD (Chicago). Endowed Chair of Social Work, 1999.

MACNEIL, GORDON A., BS, MA (Northern Arizona), MSW (Iowa), PhD (Arizona State). Associate Professor, 1993, 2000.

MARTIN, SHADI SAHAM, BS, MSW, PhD (Utah). Assistant Professor, 2003.

NELSON-GARDELL, DEBRA M., BA (Clark), MSW, PhD (Florida State). Associate Professor, 1995, 2002.

PARKER, MICHAEL W., BA, MS (Auburn), DSW (Alabama). Associate Professor, 1998, 2004.

PAYNE, NANCY, BSSW, MSW (Alabama). Instructor, 2001.

PHELPS, CARROLL C., MSW (Alabama). Instructor and Director of the Washington, DC, Internship Program, 2005.

POLLIO, DAVID E., BA (Virginia), MSW (Virginia Commonwealth), PhD (Michigan). Hill Crest Foundation Endowed Chair in Mental Health Research and Research Director, 2007.

PRYCE, JOSEPHINE G., BSW, MSW (Our Lady of the Lake), PhD (California-Berkeley). Associate Professor, 1999, 2000.

RAYMOND, GINNY T., BA (Southern Mississippi), MSW (Tulane), PhD (Denver). Associate Professor, 1975, 1996.

SIMON, CASSANDRA E., BA (New Orleans), MSW (Louisiana State), PhD (Texas-Arlington). Associate Professor, 2000, 2007.

SMITH, BRENDA D., BA (St. Olaf College), AM, PhD (University of Chicago). Associate Professor, 2009.

TERRELL, JAMES K., BS (Mobile College), MSW (Alabama). Instructor, 2007.

TERRELL, JOANNE J., BA (State University of New York-Rochester), MSW (Alabama). Instructor, 1998.

TYLER, CYNTHIA W., BS, MA, MSW (Alabama). Assistant Professor, 1998.

WILLIAMS, JAVONDA D., BSW, MSW, PhD (Florida State). Assistant Professor, 2009.

Emeriti

ADAMS, JAMES P., JR., MSW, PhD, Professor Emeritus of Social Work, 1979, 2009.

BELL, ROY F., MSSW, Assistant Professor Emeritus of Social Work, 1968, 1993.

CROW, RICHARD T., MA, MPA, PhD, Professor Emeritus of Social Work, 1974, 2000.

CRUNK, PHILLIP EUGENE, MSW, PhD, Professor Emeritus of Social Work, 1970, 2000.

EURE, GERALD K., MSW, EdD, Associate Professor Emeritus of Social Work, 1968, 1996.

HALL, ETHEL H., MA, MSW, DSW, Associate Professor Emerita of Social Work, 1978, 1989.

KAUFMAN, ALAN B., MSW, PhD, Professor Emeritus of Social Work, 2009.

MCCLAIN, SHIRLEY B., MS, Assistant Professor Emerita of Social Work, 1969, 1987.

MUELLER, THELMA V., MSW, EdD, Associate Professor Emerita of Social Work, 1976, 1989.

ORCUTT, BEN AVIS, MSW, DSW, Professor Emerita of Social Work, 1976, 1984.

ROFF, LUCINDA L., MSW, PhD, Professor Emerita of Social Work, 1974, 2008.

SHELTON, SHARON C., MSW, PhD, Assistant Professor Emerita of Social Work, 1973, 1993.

SUMRALL, RAYMOND O., BA, MSW, MDiv, PhD, Associate Professor Emeritus of Social Work, 1970, 2010.

INTERIM PROGRAM

The Interim Program is an innovative and intensive educational experience with courses offered primarily during the three-week period (“Interim”) between the spring semester and the first term of summer school. Interim Program courses are usually creative and experimental. They range from travel to Jamaica to explore the evolution of reggae music to intensive seminars in psychology, experiential courses in business, and independent projects designed by individual students. Each Interim, 80–100 courses are offered, including some regular semester courses and many courses designed especially for the Interim term. Virtually all of the University’s schools and colleges participate in the program, which is coordinated through the Office for Academic Affairs.

Registration for Interim Program courses is part of the registration procedure for the summer and fall terms. Students usually register for a maximum of 3 semester credit hours. Students registering for more than 3 credit hours begin or continue their work outside the traditional three-week Interim period. Questions about transfer credit for Interim courses should be directed to the Office of the University Registrar at (205) 348-2020. For an up-to-date listing of current Interim courses and prerequisites, students can visit the Interim Web site at interim.ua.edu.

For further information about any aspect of the Interim program, call or write: The University of Alabama, Office for Academic Affairs, Box 870114, Tuscaloosa, AL, 35487-0114; (205) 348-4890; fax (205) 348-9137.

ENGLISH LANGUAGE INSTITUTE (ELI)

For the non-native speaker of English, the University of Alabama English Language Institute (ELI), a part of Capstone International, offers two types of year-round English-language programs: The Intensive English Program is designed for individuals who are seeking intensive English study, while External Programs are designed for groups who desire highly specialized curricula. In addition, the ELI has two programs for matriculated students at The University of Alabama: the International Teaching Assistant Program, which trains and evaluates international graduate teaching assistants, and the Academic Support Program, which provides opportunities for undergraduate and graduate students who may want or need additional English-language instruction.

INTENSIVE ENGLISH PROGRAM

The ELI Intensive English Program (IEP) is designed for individuals who need to learn English as a second language. The program focuses on preparing students for academic success, both in English-language proficiency and cultural awareness, for undergraduate and graduate study at The University of Alabama.

Six levels of study, from beginning to advanced, are available. Each level consists of 20 hours of core classes per week; additional optional classes are also available for students who wish to take them. Each level of study lasts approximately eight weeks and is available six times per year with sessions beginning in August, October, January, March, May, and June. Students may begin their English study at the beginning of any one of these sessions.

An ELI student wishing to enter an undergraduate degree program at The University of Alabama may meet UA's English proficiency requirements either by obtaining the required TOEFL (Test of English as a Foreign Language) score or by completing Level 6 with a GPA of 3.0 in Levels 4, 5, and 6. Undergraduates who meet certain conditions (minimum TOEFL score and GPA) become eligible to enroll in undergraduate courses while completing their ELI program of study. The number of UA courses that an eligible student may take is determined by the ELI. Students pursuing graduate study must complete Levels 4, 5, and 6 with a GPA of 3.5. In certain cases, the Graduate School, the ELI, and the student's academic department may together grant permission for a student who has completed Level 4 or higher with a minimum GPA of 3.5 to enroll in one graduate course per semester while completing the ELI program of study. The specific course must be approved by the instructor and department prior to enrollment.

Students who apply for admission to UA and meet the academic and financial qualifications to enter the University but do not have TOEFL scores available or do not meet the TOEFL score requirement may be admitted conditionally or provisionally. Such students will not be eligible to begin an academic program and will be required to register for full-time study in ELI until they meet the TOEFL requirement or satisfactorily complete the ELI program as outlined above.

ELI INTENSIVE ENGLISH PROGRAM COURSES

Structure: Levels 1 to 6. Structure courses provide students with the basic grammatical structures they will need to communicate effectively in English in four language skill areas: listening, speaking, reading, and writing. Each structure course emphasizes communication—both comprehension (listening and reading) and production (speaking and writing). Structure courses meet 5 hours per week.

Speaking/Listening: Levels 1 to 6. ELI courses in Speaking/Listening English provide students with the opportunity to improve their listening and speaking skills and to gain confidence in using English to communicate orally. Students practice appropriate conversation management skills, receive instruction on problem areas of pronunciation, and learn useful vocabulary. These activities are carried on through a variety of classroom exercises that focus on the everyday situations students are likely to encounter while adjusting to life in the United States. Speaking/Listening courses meet 6 hours per week.

Reading/Writing: Levels 1 to 6. The Reading/Writing curriculum of the English Language Institute is designed to provide students with both the skills and the practice that are necessary for them to develop satisfactory reading and writing skills in English and eventually to function successfully in

U.S. university courses where extensive academic reading and essay writing are required. Skill instruction and accessible, varied, and challenging tasks invite students to invest their time and energy in constructing meaning from written texts, responding to those texts, and producing writings of their own. Students will acquire new vocabulary and develop effective reading strategies for different types of tests. Working on closely related reading and writing assignments, students will develop proficiency in understanding what they read and in thinking, drafting, and revising their own ideas by working through the writing process with input from their classmates and teachers. Reading/Writing courses meet 9 hours per week.

Oral Communication. Oral Communication (OC) is designed to help students improve their skills and proficiency in both speaking and understanding oral English. Students' oral proficiency in English will improve as a result of a variety of classroom tasks and activities. In addition, instructional activities will occasionally take place outside of the classroom in order to take advantage of opportunities in community settings. Oral Communication is divided into two separate eight-week sessions—OC I and OC II—each of which meets for 9 hours per week.

Optional Classes. The ELI offers several choices of optional courses. Some examples of optional courses are TOEFL Preparation, Pronunciation, American Culture, Current Events, Business English, English Through Current Events, and English Through Music. Optional classes typically meet 2-3 hours per week.

Culturally Speaking. Through the Culturally Speaking class, ELI students meet regularly with American students to converse in English in relaxed surroundings. Culturally Speaking provides a comfortable way for ELI students to form friendships with American students and to practice their English.

Culture and Language Exchange Program. The Culture and Language Exchange Program matches the ELI students with UA students who are studying the ELI student's native language. Once matched, these pairs or groups of students then meet as often as they like for conversation practice in both English and in the particular foreign language.

ELI EXTERNAL PROGRAMS

ELI External Programs consist of a variety of programs designed for groups of participants with mutual goals and concerns who desire highly specialized, intensive curricula. Such programs are typically designed for international English teachers, students whose international universities have approved given curricula for credit, international graduate students preparing to enter universities throughout the United States, and business professionals who wish to improve their overall effectiveness in English or to concentrate on specific skills such as written communication.

An organization wishing to participate in such a program should clearly define the goals of its group and keep in mind that program enrollments typically require a minimum of 10 participants. Financial sponsorship for the above programs may come from ministries of education, embassies, corporations, private philanthropic organizations, U.S. or other government sponsoring agencies, or the individual participants themselves. Programs may be offered at any time of the year and typically range in length from two to six weeks.

A second type of external program is the corporate short-term program for individuals from a single corporation who participate in a curriculum composed partially of courses in the ELI Intensive English Program and partially of specialized courses designed specifically for the participants. These programs are offered as needed throughout the year.

A third type of external program may be offered on-site at the corporation or university. As with all external programs, dates can be customized and curricula can be specially designed for the particular group.

ELI External Program Curricula

International University Undergraduate Program. This program typically offers one or two levels of instruction for the group and consists of four hours of instruction per day, five days per week. Courses offered can include Spoken English, Pronunciation, Reading/Vocabulary, Writing, Structure, Computer Skills, American Culture, and English through Music or Film.

English Teacher Training Program. This program is designed for non-native speakers who are teachers of English. The curriculum typically consists of courses in conversational management, debate, listening and speaking, pronunciation, and public speaking, as well as a teaching

workshop and series of methodology lectures. This curriculum can be adjusted to meet the needs of a particular group of English teachers. The program aims to further refine the teacher's own usage and to address and evaluate current theories of methodology in light of the country's unique challenges in teaching English. These courses meet four to six hours daily.

ACADEMIC SUPPORT PROGRAM

The ELI Academic Support Program provides opportunities for UA undergraduate and graduate students who may want or need additional English-language instruction. At the undergraduate level, newly admitted international students, after taking the UA English Proficiency and Placement Exam (EPPE) prior to beginning their first semester at UA, may be asked to take one or two ELI courses in spoken and/or written English on a part-time basis. These students may pursue their academic studies while fulfilling their EPPE requirements. Students must pass the designated ELI Speaking/Listening or Academic Writing course(s) before enrolling in the University's required English courses for credit. In addition, the UA Language Resource Center is available for individualized language assistance.

To obtain more information about any of the above ELI programs, to request a brochure and application for the Intensive English Program, or to discuss the possibility of an external program for your group, contact the University of Alabama English Language Institute, Box 870250, Tuscaloosa, AL 35487-0250; (205) 348-7413; fax (205) 348-9266; e-mail info@eli.ua.edu. Also, please visit our Web site at eli.ua.edu.

COURSE LISTINGS

DESCRIPTIONS OF COURSES OFFERED

University of Alabama course numbers should be interpreted as follows:

Course Number	Type of Course
001–099	remedial courses (noncredit)
100–199	courses primarily for freshmen
200–299	courses primarily for sophomores
300–399	courses primarily for juniors
400–499	courses primarily for seniors
500–599	Graduate I level courses (master's)
600–699	Graduate II level courses (beyond master's)

Most courses listed are offered during the fall and/or spring semesters. Some are offered in the summer term as well. Courses offered *only* during the summer term are so indicated. Schedule of classes booklets published before the beginning of each semester provide the most current information about courses, and students should be sure to consult them.

Review of courses for University Core Curriculum designations is an ongoing process. New courses may be approved and added to the list of courses that satisfy core curriculum requirements; courses may also be removed from this list. A course may be used to satisfy core curriculum requirements *only if* the course carries a core curriculum designation at the time it is taken. The student should consult the core curriculum supplement in the schedule of classes booklet to see if a core curriculum designation is in effect during a particular semester.

CULVERHOUSE SCHOOL OF ACCOUNTANCY (AC)

Professor Mary S. Stone, Director

Office: 314 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours). Furthermore, all C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science; 3 hours of fine arts, literature, or humanities; and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

AC 210 or its equivalent is a prerequisite for all accounting program courses numbered 300 or above.

Accounting majors must earn grades of "C—" or higher in all 300-level accounting courses. See the Culverhouse School of Accountancy section of this catalog for policies on grading and repeating courses.

Third-year requirement for accounting majors. No 300- or 400-level accounting courses may be transferred from another institution and applied to the degree requirements for accounting majors. These upper-level courses have unique components, and equivalent courses do not exist at other universities. A condition of enrollment in all undergraduate accounting courses other than AC 351 and AC 352 is admission to the Culverhouse School of Accountancy or permission of the director.

AC 210 Introduction to Accounting. 4 hours.

Prerequisite: EC 110.

Introduction to accounting and financial reporting concepts and the use of accounting information in financial and managerial decisions. Students who intend to major in accounting should take AC 289 before or concurrently with AC 210.

AC 289 Computer Applications. 3 hours.

Prerequisite: CS 102 or equivalent.

Corequisite: AC 210.

Introduction to information technology and computer applications in business.

AC 310 Financial Reporting and Analysis of Business Activities I. 3 hours.

Prerequisite: Admission to the Culverhouse School of Accountancy or permission of the director.

Promotes technical competency in the accounting process and develops critical thinking, communication, and research skills involving accounting and other business information. By presenting accounting and business consulting issues and requiring the use of technology to solve a typical business entity's problems, this course exposes students to the professional environment of accounting practice.

AC 311 Financial Reporting and Analysis of Business Activities II. 3 hours.

Prerequisite: AC 310 with grade of "C—" or higher.

Continuation of AC 310.

AC 351 Managerial Accounting Decisions. 3 hours.

Prerequisite: AC 210 with grade of "C—" or higher.

AC 351 and AC 361 cannot be used for credit toward the same major. Study of managerial accounting concepts and their use in business decisions. Not open to accounting majors.

AC 352 Corporate Financial Reporting. 3 hours.

Prerequisite: AC 210 with grade of "C—" or higher.

AC 352 and AC 310 cannot be used for credit toward the same major. Study of financial accounting concepts and their use in analyzing and interpreting financial reports. Not open to accounting majors.

AC 361 Cost Analysis for Planning and Control. 3 hours.

Prerequisite: Admission to the Culverhouse School of Accountancy or permission of the instructor. Students should take AC 310 prior to enrolling in AC 361.

A study of the theory and application of accounting for measuring the economic attributes of the firm's operations. The course examines the measurement, analysis, and interpretation of accounting information for planning and controlling a firm's business-related activities.

AC 371 Introduction to Taxation. 3 hours.

Prerequisite: Admission to the Culverhouse School of Accountancy or permission of the instructor.

Introduction to tax policy, planning, practice, and research with an emphasis on income taxation.

AC 389 Accounting Information Systems Development, Operation, and Control. 3 hours.

Prerequisites: AC 289 or CS 285 and AC 310 and admission to the Culverhouse School of Accountancy or permission of the instructor.

Introduction to the operation and development of accounting information systems, e-business applications, networking, and controls.

Only students admitted to the Culverhouse School of Accountancy may enroll in 400-level accounting courses without special permission of the director. Accounting majors planning to enter the master of accountancy or master of tax accounting program must complete the professional accounting specialization, which requires students to take AC 456 and AC 471.

AC 432 Introduction to Corporate Governance, Risk Assessment, and Assurance Services. 3 hours.

Prerequisites: AC 311 and AC 389 with a grade of "C—" or higher.

A risk-oriented study of standards, concepts, procedures, and professional ethics underlying governance and the practice of external and internal auditing and assurance services. The course will focus on mechanisms and activities that enhance the reliability of information for decision making.

AC 456 Governmental and Nonprofit Accounting. 3 hours.

Prerequisite: AC 310 with grade of "C—" or higher.

Special features of budgetary and fund accounting are applied to municipalities, other government units, and institutions such as schools and hospitals.

AC 471 Taxation of Business Transactions and Organizations. 3 hours.

Prerequisite: AC 371 with a grade of "C—" or higher.

Examination of the tax implications of business formations, transactions between the entity and the owners, reorganizations, and liquidations. The course develops tax research skills.

AC 489 Accounting Information Systems Implementation and Security and Control. 3 hours.

Prerequisite: AC 389 with a grade of "C-" or higher.

Implementation, security, and control of accounting information systems and e-commerce applications.

AC 491 Independent Study in Accounting. 1-3 hours.

Prerequisite: Permission of the director. Students may earn degree credit for only one independent study course (491).

AC 492 Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.5 or higher or permission of the Internship Coordinator or Director of the Accounting School. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public sector organizations.

AC 497 Special Topics in Accounting. 3 hours.

ADVERTISING AND PUBLIC RELATIONS (APR)

Dr. Bruce Berger, Chairperson

Office: 412 Phifer Hall

Typing ability is a prerequisite for all advertising and public relations courses. Advertising and public relations students must make a "C-" or higher in all courses required in the major and in all required external courses, including those established as prerequisites for courses in the major as well as those required directly in the major. Students who wish to enroll in 300- or 400-level APR courses must have grade point averages of 2.0 or higher. Students minoring in advertising or public relations are required to earn grades of "C-" or higher in all courses required in the minor.

APR 221 Introduction to Advertising. 3 hours.

Prerequisites: MC 101 and EN 101 or EN 103.

Survey of advertising, including history, social and political perspectives, advertising institutions, and an overview of advertising theory, planning, and practice.

APR 230 Introduction to Public Relations for Non-Majors and Non-Minors. 3 hours.

Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations.

APR 231 Introduction to Public Relations. 3 hours.

Prerequisites: MC 101 and EN 101 or EN 103.

Survey of public relations, including the development and contemporary status of the field, social and political perspectives, and an overview of the practice of public relations in business, government, associations, and other organizations.

APR 260 Design Applications. 3 hours.

Prerequisites: MC 101 and advertising, journalism, or public relations major or minor.

An introductory skills course to the primary Adobe CS3 Suite items (Photoshop, Illustrator, and InDesign) used in the advertising and public relations program. Through this distance education class, students will learn the primary skill set used to make professionally designed logos, ads, brochures, newsletters, and other documents prevalent in the industry in addition to a small amount of Web training.

All 300- and 400-level advertising and public relations courses require a GPA of 2.0 or higher in addition to the prerequisites listed. Advertising and PR majors must complete the math core and EC 110 with grades of "C-" or above before enrolling in 300- and 400-level APR courses (except APR 300) required for the advertising or public relations major. Students who are not majoring in advertising and public relations must fulfill the course prerequisites and must have GPAs of 2.0 or higher in order to enroll. Students who are not majoring in advertising or PR, including advertising and PR minors, will need to go to 412 Phifer for prerequisite overrides for EC 110 and the math core before enrolling in APR 322, APR 332, APR 418, APR 422 (math core required for APR 422), APR 423, APR 424, APR 432, or APR 433.

APR 300 Visual Communication. 3 hours.

Prerequisites: MC 101, JN 150, APR 260, and APR 221 or APR 231 or JN 311 or TCF 150.

Theory, concepts, and aesthetics of visual communication applied to commercial persuasion in advertising and public relations. Particular attention is given to the application of course content in desktop publishing.

APR 320 Planning for Persuasive Communication. 3 hours.

Prerequisites: MC 101, JN 150, APR 221 or APR 231, and MATH 110 or higher or equivalent.

Survey of research procedures and methods used to analyze the character and needs of communication audiences and to develop and assess alternative communication strategies for advertising and public relations programs.

APR 322 Advertising Copywriting. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 221, APR 300, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and junior standing.

Examination of relationships between advertising strategy and the creative process, concentrating on the generation of ideas and the execution of advertising ideas for various media. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.

APR 331 Publicity and Media Relations for Non-Majors. 3 hours.

Messages and media for communication programs aimed at achieving understanding and support for specific groups. Not open to advertising/public relations majors.

APR 332 Public Relations Writing. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 231, APR 300, JN 311, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and junior standing.

Theory and practice involved in creating public relations messages, including planning, writing, editing, production, and evaluation. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.

APR 380 Independent Study. Variable credit (1 to 9 hours).

Prerequisites: Permission of department chairperson and faculty sponsor. Analysis of advanced theoretical issues in commercial persuasive communication under the supervision of an advertising or public relations faculty member.

APR 381 Practicum. Variable credit (1 to 3 hours).

Prerequisites: Permission of department chairperson and faculty project sponsor, APR 332 or APR 322 or APR 422 (depending on practicum), at least junior standing, and GPA of 2.5 or higher.

Supervised field experiences coupled with investigation of communication problems. Students may take a total of only 3 hours in internship and/or practicum courses.

APR 385 Advertising Internship. 3 hours.

Prerequisites: Permission of the department chairperson and faculty sponsor (before registering or undertaking any work), APR 322 or APR 422 (depending on internship), at least junior standing, and GPA of 2.5 or higher.

The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports submitted by the student. Students may take a total of only 3 hours in internship and/or practicum courses.

APR 386 Public Relations Internship. 3 hours.

Prerequisites: Permission of department chairperson and faculty sponsor (before registering or undertaking any work), APR 332, at least junior standing, and GPA of 2.5 or higher.

The course consists of approved work experience. Students may take one additional course when enrolled for internship credit. Grading of P/F is based on the employer's evaluation of the student's performance and on written reports by the student. Students may take a total of only 3 hours in internship and/or practicum courses.

APR 415 Online Magazine Writing and Editing: Advanced PR Writing. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 231, APR 300, JN 311, APR 332, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; junior standing; and permission of the instructor.

APR 418 Advanced Advertising Development. 3 hours.

Prerequisites: MC 101, JN 150, APR 260, APR 221, APR 300, APR 322, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and senior standing.

Theory and practice of visual communication in telecommunication and print media, with particular attention to the latest creative approaches being applied in advertising and public relations.

APR 419 Advanced Public Relations Development. 3 hours.
Prerequisites: MC 101, APR 260, JN 150, APR 231, APR 300, JN 311, APR 332, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and senior standing.

Application of graphic design techniques to the creation and production of public-relations-oriented publications.

APR 420 Political Communication (also MC 421). 3 hours.

Prerequisites: MC 101 and junior standing.

The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communication. Writing proficiency is a requirement for passing this W-designated course.

APR 422 Advertising Media. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 221, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and junior standing.

Study of media as vehicles for advertising messages, and preparation of media objectives, strategies, budgets, and buying plans. May be taken for graduate credit.

APR 423 Advertising Management. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 221, APR 300, APR 322, APR 422, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and senior standing.

The course concentrates on advertising as a business-building activity and examines the concepts, perspectives, and practices that advertising decision makers can employ to maximize the value of advertising. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.

APR 424 Advertising Campaigns. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 221, APR 300, APR 322, APR 422, math core (MATH 110 or higher), EC 110 with grades of "C-" or above; and senior standing.

Planning and execution of advertising campaigns for specific organizations. Integration of advertising theory, concepts, and techniques into complete communication programs. **Offered in fall and spring semesters.**

APR 431 Political Campaign Management (also COM 431). 3 hours.

The study of communication management in the context of political campaigns. Topics include audience analysis, candidate and electoral context analysis, strategic planning and assessment, leadership and campaign management styles, and database management.

APR 432 Public Relations Management. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 231, APR 300, JN 311, APR 332, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and senior standing.

The course concentrates on public relations as an essential element in the effective management of any organization and examines the concepts, perspectives, and practices that apply to the management of communication programs directed to various audiences inside and outside the organization. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.

APR 433 Public Relations Campaigns. 3 hours.

Prerequisites: MC 101, APR 260, JN 150, APR 231, APR 300, JN 311, APR 332, math core (MATH 110 or higher), and EC 110 with grades of "C-" or above; and senior standing.

Planning and execution of public relations campaigns for specific organizations. Integration of public relations theory, concepts, and techniques into complete communication programs. **Offered in fall and spring semesters.**

APR 443 Political Advertising and Political Public Relations. 3 hours.

Prerequisites: COM 421 or MC 421 or APR 420; junior standing.

Study of the role of political advertising and political public relations in contemporary American media. A consideration of proactive and reactive political advertising and public relations strategies. Writing proficiency is a requirement for passing this W-designated course.

APR 444 Lobbying (also MC 444). 3 hours.

Prerequisites: MC 101 with grade of "C-" or above and junior standing.

A survey of legislative/political techniques and communication strategies and tactics used by corporations, trade associations, and other interest groups to successfully impact federal policymaking.

APR 469 International Advertising and Public Relations. 3 hours.

Prerequisites: Permission of the instructor, junior standing, and concurrent enrollment in APR 380.

Research abroad bearing on international advertising and public relations programs. Conducted during the summer.

AEROSPACE ENGINEERING AND MECHANICS (AEM)

Professor Stanley E. Jones

Department Head

Office: 205 Hardaway Hall

AEM 120 Aerospace Science for Educators. (3-3) 4 hours.

Students develop meaningful understanding and use of engineering and science knowledge and critical-thinking skills and come to appreciate engineering and science as part of the daily life of a scientifically literate professional.

AEM 121/131 Introduction to Aerospace Engineering. (2-0) 2 hours.

Corequisites: MATH 112 and enrollment in AEM.

A survey of aerospace history and a discussion of pertinent topics to help the student understand aerospace engineering and to promote a professional awareness.

AEM 201 Statics. (3-0) 3 hours.

Prerequisite: PH 105.

Corequisites: MATH 126, DR 100, or equivalent.

Forces and couples and resultants of force systems, free-body diagrams, equilibrium, and problems involving friction; and centroids, center of gravity, and distributed forces.

AEM 205 Honors Statics. (3-0) 3 hours.

Prerequisites: Grades of "B" or higher in PH 105 and MATH 125.

Honors section of AEM 201.

AEM 249 Algorithm Development and Implementation. (2-0) 2 hours.

Prerequisite: MATH 125.

Algorithm development, numerical solution of engineering problems, and structured problem solving in C++.

AEM 250 Mechanics of Materials I. (3-0) 3 hours.

Prerequisite: AEM 201.

Corequisite: MATH 227.

Concepts of stress and strain; analysis of stresses and deformation in bodies loaded by axial, torsional, and bending loads; combined loads analysis; statically indeterminate members; thermal stresses; columns; and thin-walled pressure vessels.

AEM 251 Mechanics of Materials Laboratory. (0-3) 1 hour.

Corequisite: AEM 250.

Mechanical tests of metallic and nonmetallic materials in the elastic and inelastic ranges; use of materials testing for acceptance tests, for the determination of properties of materials, and for illustration of the validity of assumptions made in mechanics of materials.

AEM 252 Honors Mechanics of Materials I. (3-0) 3 hours.

Prerequisites: AEM 201.

Corequisite: MATH 227.

Concepts of stress and strain; stress and deformation analysis of bodies subject to axial, torsional, bending, and thermal loads; and generalized Hook's law, strain transformations, energy methods, curved beams, noncircular torsion, and shear center.

AEM 264 Dynamics. (3-0) 3 hours.

Prerequisite: AEM 201.

Corequisite: MATH 227.

Kinematics of particles and rigid bodies, Newton's laws of motion, and principles of work-energy and impulse-momentum for particles and rigid bodies.

AEM 311 Fluid Mechanics. (3-0) 3 hours.

Prerequisite: AEM 201.

Corequisites: MATH 238.

Fluid statics, application of conservation laws to simple systems, dimensional analysis and similitude, and flow in open and closed conduits.

AEM 313 Aerodynamics I. (3-0) 3 hours.

Prerequisite: AEM 264 and AEM 311.

Corequisite: MATH 238.

Introductory aerodynamics, including properties of the atmosphere; aerodynamic characteristics of airfoils, wings, propellers, and other components; drag phenomena; and topics of current interest.

AEM 314 Aircraft Performance. (3-0) 3 hours.

Corequisites: AEM 264 and AEM 349.

Aircraft performance parameters, including static stability criteria.

AEM 341 Aerospace Structural Analysis. (3-0) 3 hours.

Prerequisites: AEM 249 and AEM 250.

Methods of analyzing stressed skin structures of the types that are typically found in aircraft, missiles, and space vehicles. Unsymmetrical bending and bending and twisting of multiple cell structures are also covered.

AEM 349 Engineering Analysis. (4-0) 4 hours.

Prerequisites: AEM 249 and MATH 237.

Corequisite: MATH 238

Elements of statistics, matrix algebra, numerical analysis, and partial differential equations applied to engineering problems. Includes extensive computer applications.

AEM 368 Flight Dynamics and Controls. (3-0) 3 hours.

Prerequisites: AEM 264, AEM 314 and MATH 238.

Fundamentals of airplane flight dynamics, static trim, and stability.

AEM 402 Integrated Aerospace Design I. (2-3) 3 hours.

Prerequisites: AEM 341, AEM 368 and AEM 413.

Corequisite: AEM 408.

Preliminary design techniques for an aerospace system.

AEM 404 Integrated Aerospace Design II. (1-6) 3 hours.

Prerequisite: AEM 402.

Preliminary and detailed design of aircraft and space vehicles, including weight and balance, power plant selection, exterior layout, performance, stability, and control. Involves group efforts on selected projects.

AEM 408 Propulsion Systems. (3-0) 3 hours.

Prerequisite: AEM 413.

Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance, and advanced propulsion systems.

AEM 413 Aerodynamics II. (3-0) 3 hours.

Prerequisites: AEM 313 and ME 215.

Dynamics of compressible fluids: shock waves, one-dimensional flow, expansion waves in two-dimensional flow, and compressible flow over aerodynamic bodies.

AEM 414 Experimental Aerodynamics (2-2) 3 hours.

Prerequisites: AEM 250.

Corequisite: AEM 413.

This course provides a laboratory counterpart to concepts discussed in aerodynamics and fluid mechanics. Course topics include statistical and uncertainty analysis techniques, design of experiments, computer-based data-acquisition, sensors for fluid mechanic measurements, and aerodynamic measurement techniques and facilities.

AEM 416 Helicopter Theory. (3-0) 3 hours.

Prerequisite: AEM 313.

Critical examination of the propulsive airscrew, including induced velocity relations, flow patterns, and similarity. Practical applications are approached through existing theory and practice.

AEM 425 Spacecraft Attitude Dynamics and Control. (3-0) 3 hours.

Prerequisite: AEM 468.

This course introduces the student to the theory and practice of spacecraft dynamics and control. The topics covered include kinematics and dynamics of angular motion, spacecraft stabilization, attitude control devices, and design of linear and nonlinear spacecraft control systems.

AEM 428 Space Propulsion. (3-0) 3 hours.

Prerequisite: AEM 408.

This course introduces the student to descriptions and analyses of space and launch-vehicle propulsion. Topics covered include advanced schemes such as nuclear, solar, and laser propulsion; power cycles; and tether systems.

AEM 451 Structural Design and Testing. (3-3) 4 hours.

Prerequisites: AEM 341 and ECE 320.

Corequisite: AEM 461.

Design of tension, compression bending, torsion, and stiffened panel members; experimental and analytical investigations involving static and dynamic structural behavior. Writing proficiency is required for a passing grade in this course.

AEM 452 Composite Materials. (3-0) 3 hours.

Prerequisites: AEM 250 and another 3-hour structures course.

Introduction to the governing principles of the stiffness and strength of unidirectional and multidirectional fiber composite materials.

AEM 454 Engineering Reliability. (3-0) 3 hours.

Prerequisite: AEM 250.

Fundamental concepts and applications of the probabilistic approach to engineering design.

AEM 461 Computational Methods for Aerospace Structures. (3-0) 3 hours.

Prerequisites: MATH 227 and AEM 341.

Development of the fundamentals of the finite-element method from matrix and energy methods. Use of the finite-element method for detailed design of aerospace structures. Modeling techniques for static and dynamic analyses.

AEM 468 Flight Dynamics and Controls II. (3-0) 3 hours.

Prerequisites: AEM 349 and AEM 368.

Introduction to the dynamics of flight vehicles; equations for static and dynamic equilibrium; criteria for stability, controllability, and maneuverability; and fundamentals and mathematical models using linear differential equations.

AEM 469 Orbital Mechanics I. (3-0) 3 hours.

Prerequisites: MATH 238 and AEM 264.

Introduction to engineering application of celestial mechanics; high-speed, high-altitude aerodynamics; and other fields related to the contemporary problems of space vehicles. Fundamentals of applied dynamics, nomenclature of space flight, space environment and solar system, and two-body orbits. Kepler's laws, coordinate transformations, and related studies.

AEM 470 Mechanical Vibrations (also ME 470). (3-0) 3 hours.

Prerequisites: AEM 250 and AEM 264.

Free and forced vibrations, both undamped and damped. Systems with many degrees of freedom are formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.

AEM 471 Engineering Acoustics (also ME 471). (3-0) 3 hours.

Prerequisites: MATH 238 and AEM 264.

Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.

AEM 474 Structural Dynamics. (3-0) 3 hours.

Prerequisites: AEM 250, 264 and MATH 238.

Fundamental methods for predicting the dynamic response of structures.

AEM 475 Control-Systems Analysis. (3-0) 3 hours.

Prerequisites: MATH 238 and AEM 349.

Classical feedback control-system analysis; block diagrams, state variables, stability, root locus, and computerized analysis. Includes an introduction to modern control techniques.

AEM 480 Introductory Computational Fluid Dynamics. (3-0) 3 hours.

Prerequisites: MATH 238 and AEM 349.

Analyses of aerodynamic flow problems using a digital computer.

AEM 491 and AEM 492 Special Problems. Variable credit.

Assigned problems are explored on an individual basis. Credit is based on the amount of work undertaken.

AEM 495 Aerospace Engineering Seminar. (2-0) 2 hours.

Corequisite: AEM 402.

Selected topics from recent developments in the aeronautical and space engineering fields. There are visiting lecturers and extensive student participation. Several nontechnical topics of immediate interest to seniors are explored. Each student must complete a personal résumé and subscribe to Aerospace America. Writing proficiency is required for a passing grade in this course.

Advanced Undergraduate/Entry-level Graduate Courses**AEM 500 Intermediate Fluid Mechanics** (also ME 500). (3-0) 3 hours.

Prerequisites: MATH 238, ME 215, and AEM 311.

AEM 503 Intermediate Gas Dynamics (also ME 503). (3-0) 3 hours.

Prerequisites: ME 215, AEM 311, and MATH 238.

AEM 514 Experimental Aerodynamics (2-2) 3 hours

Prerequisite: AEM 250.

Corequisite: AEM 413

AEM 525 Spacecraft Dynamics. (3-0) 3 hours.

Prerequisite: AEM 468.

AEM 552 Composite Materials. (3-0) 3 hours.

Prerequisites: AEM 250 and another 3-hour structures course.

AEM 562 Intermediate Dynamics. (3-0) 3 hours.

Prerequisites: MATH 238 and AEM 264.

AEM 567 Orbital Mechanics. (3-0) 3 hours.

Prerequisites: MATH 238, AEM 264.

AEM 570 Theory of Vibrations (also ME 570). (3-0) 3 hours.

Prerequisites: AEM 250, AEM 264, and MATH 238.

AEM 571 Fundamentals of Acoustics (also ME 571). (3-0) 3 hours.

Prerequisites: AEM 264 and MATH 238.

AEM 574 Structural Dynamics. (3-0) 3 units.

Prerequisites: AEM 250, 264 and MATH 238.

AFRICAN AMERICAN STUDIES (AAST)

Office: 104 Manly Hall

AAST 201 Introduction to African American Studies (same as AMS 201). 3 hours.

A basic outline of the diversity and complexity of the African American experience in the United States: the early academic and social concerns of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation, and multiculturalism; and its major theoretical and critical debates.

AAST 202 African American Lives (same as AMS 202). 3 hours.

A cultural approach to African American lives, exploring the role of the individual, biography, and narrative in African American history and culture.

AAST 226 African Diaspora Religions (same as REL 226). 3 hours.

Examination of African influence throughout the Americas (e.g., Candomblé in Brazil, Vodou in the Caribbean, African American religions in North America), focusing on the interplay between religion, culture, and politics.

AAST 249 African American Literature (same as EN 249). 3 hours.

Survey of African American literature from its earliest expressions to the present. In order to identify the aesthetics of the African American literary tradition, the course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.

AAST 280 Rock, Soul, and Country (same as AMS 280). 3 hours.

After 1965, rock and roll became rock, representing the counterculture; rhythm and blues became soul, representing Black Power; and country music became the emotional voice of the post-Civil Rights white South. This class contrasts these three dominant American popular music genres, looking as well at a later generation of "alternative" rock, hip-hop, and "new country."

Unless otherwise stated, the prerequisite for 300- and 400-level courses is junior standing or higher or permission of the instructor.

AAST 302 The Black Church (same as AMS 302). 3 hours.

A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AAST 303 Education of Southern Blacks (same as AMS 303). 3 hours.

A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AAST 319 Nineteenth-Century Black History (same as HY 319).

3 hours.

Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

AAST 320 Twentieth-Century Black History (same as HY 320). 3 hours.

The interrelationship of blacks and the industrial-urban environment of the United States.

AAST 340 Women in the South (same as AMS 340). 3 hours.

Examination of the cultural concepts, myths, and experiences of black and white Southern women from a variety of economic and social backgrounds. Special attention is given to the interaction of race, class, and gender in Southern women's lives. Texts include historical studies, autobiographies, biographies, oral histories, and novels written by and about women in the 19th- and 20th-century South.

AAST 341 African American Art (same as AMS 341). 3 hours.

An examination of the work of formally trained 20th-century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the women's movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AAST 350 Topics in African American Literature (same as EN 350). 3 hours.

A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larsen, Langston Hughes, and Toni Morrison.

AAST 352 Social Inequality (same as SOC 352 and WS 352). 3 hours.

Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

AAST 395 Special Topics in African American Studies. 3 hours.

An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 401 African American Experience (same as AMS 401). 3 hours.

Prerequisite: Permission of the instructor.

An interdisciplinary investigation of the complexities of the African American experience in American culture, ranging from emergence of the Atlantic world and the slave trade to critical issues of the early 21st century. Topics may include the influence of African traditions on American culture; chattel slavery and its historical legacy; the role of religion in the social history of African Americans; the contributions of African Americans to the creative arts; and the critical role played by African Americans in American freedom struggles. To address such topics—and the intersection of these topics with one another—the course will explore insights from various scholarly disciplines and examine several kinds of cultural artifacts such as autobiography, oral history, film, literature, music, and the visual arts.

AAST 402 Special Topics in African American Studies (same as AMS 402). 3 hours.

Prerequisite: AAST 201 (or AMS 201) or permission of the instructor.

An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AAST 412 Slavery in American Popular Culture, 1845-present (same as HY 412). 3 hours.

Prerequisite: AAST 201 (or AMS 201) or permission of the instructor.

An examination of slavery in popular culture from the 1840s to the present. Topics and media include fiction, autobiography, film and television, advertising, and confederate celebrations.

AAST 413 Communication and Diversity (same as COM 413 and MC 413). 3 hours.

Prerequisite: AAST 201 (or AMS 201) or permission of the instructor.

Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society.

AAST 415 African American Rhetoric (same as COM 415). 3 hours.

Prerequisite: AAST 201 (or AMS 201) or permission of the instructor.

A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community.

AAST 488 Advanced Studies in African American Literature (same as EN 488). 3 hours.

Prerequisite: AAST 201 (or AMS 201) or permission of the instructor.

A special topics course that focuses on issues in African American literature.

AAST 495 Special Topics. 3 hours.

Prerequisite: AAST 201 (or AMS 201) or permission of the instructor.

An examination of selected African American topics. May be repeated for a maximum of 9 hours.

AMERICAN STUDIES (AMS)

Office: 101 ten Hoor Hall

AMS 150 is not open to juniors or seniors except by special permission.

AMS 202, AMS 203, AMS 204, and AMS 205 are not open to seniors except by special permission.

AMS 100-109 Special Topics. 1 hour.

Selected American topics for lower-division undergraduate students offered by American studies faculty members or supervised teaching assistants. Some examples include the following five-week, one-hour courses: Legendary John Lennon, American Organized Crime, Social History of Rock 'n' Roll, Wilderness and Mystery, Land of the Blues, From God to Gangsta Rap, Wild and Wicked Roaring '20s, '70s Soul Cinema, The Jamband Scene, Dystopian Science Fiction Movies, and Reading Sex and the City.

AMS 150 Introduction to American Culture: Arts and Values. 3 hours.

Exploration of the relation between the arts—popular, folk, and elite—and American culture in four selected periods: Victorian America, the '20s and '30s, World War II and the Postwar Era, and the '60s. Class presentations and discussions revolve around novels, movies, art, music, artifacts, and

readings about the periods. This course is team taught by all the members of the American studies faculty. Offered fall semester.

AMS 151 Introduction to American Culture: World, Nation, Regions.

3 hours.

A broad survey of American culture formed by global, national, and regional influences. The first section, "World," looks at the United States as a product and shaper of international movements, ideas, and cultures from 1500 to the present. The second section, "Nation," examines the creation of a distinctly American identity between 1790 and 1890 that ultimately incorporated and reflected global issues. The third section, "Regions," focuses on the South and other regions as contributors to and consequences of national and global interactions. Team taught by the entire AMS faculty, lectures will include topics on film, music, literature, art, sports, and other cultural artifacts. Offered spring semester.

AMS 200 Special Topics. 3 hours.

Selected American topics for lower-division undergraduate students offered by AMS faculty members or Americanists from related departments. Recent examples include The Asian-American Experience, The American Road, The Sporting Life, Baseball Since 1945, and Twilight Zone Culture. May be repeated for a maximum of 12 hours.

AMS 201 Introduction to African American Studies (same as AAST 201). 3 hours.

This course provides a basic outline of the diversity and complexity of the African American experience in the United States. It surveys the early academic and social concern of Black Studies advocates; the changes in the field's objectives that arise from its connections to contemporary social movements for Black Power, women's liberation, and multiculturalism; and its major theoretical and critical debates.

AMS 202 African American Lives (same as AAST 202). 3 hours.

A cultural approach to African American lives, examining how the selected course texts express the formation of individual identity and how it is influenced by African American culture. The role of the individual, biography, and narrative in African American history and contemporary culture will be explored. The course draws upon a variety of texts, including historical and theoretical work, visual arts, music, literature, material culture, and documentary and feature films.

AMS 203 Southern Lives. 3 hours.

This discussion-based course examines representations of Southerners—figures who lived, are living, or live only imaginarily—to explore critically the characteristics attributed to "Southern lives." An interdisciplinary methodological approach will be used to scrutinize the interplay between course materials (autobiographies, fictional texts, historical accounts, and films) and major political, cultural, and social forces influencing the region and the nation. Traversing epochs from before the Civil War until after the Civil Rights Movement, the class will analyze how portrayals of Southern lives change over time and in response to different authors' aims and audiences' expectations.

AMS 204 Western American Lives. 3 hours.

A lecture/discussion course utilizing a biographical approach to the salient themes, issues, and episodes of the American West. Some of these lives are real, some of them imagined, and others are a little of each. All of them, however, reveal much about both region and nation and how each has changed over time.

AMS 205 Working Lives. 3 hours.

This lecture/discussion course focuses on individual American lives in their working experiences as they are expressed in their personal forms of autobiographies, oral histories, diaries, and letters. What does work mean to Americans as they construct their lives and judge their personal success or failure? What is the role of work in construction of a "good life" in this culture? And do these views vary according to the individual's position in the ethnic, gender, class, and regional richness and diversity of the American experience?

AMS 231 Contemporary America. 3 hours.

This course has two principal objectives. Students will analyze the changing nature of American cultural values for the period dating from the early 1970s to the present. By placing materials drawn from literature, film, the visual arts, music, and popular culture within broader social and historical contexts, students will examine key developments in the everyday life patterns and cultural expressions of Americans in contexts that range from the local to the international. In addition, the course will familiarize students with a sampling of the interdisciplinary methodologies applicable to work in the field of American studies (e.g., analysis of images and primary documents, oral history, and ethnography). Offered fall semester.

AMS 232 Contemporary America in Music. 3 hours.

This course uses music, and the culture around music, to analyze the changing nature of American values after the late 1960s. The class will draw connections between popular music in the 1970s, 1980s, and 1990s and the economic and political contexts of these decades. The class will consider the relationship between culture and society: how everyday life impacted, and was impacted by, creative expression. This course will also serve as an introduction to some of the interdisciplinary research methods used in the field of American studies.

AMS 251 American Folklore. 3 hours.

Survey and analysis of such genres of American vernacular expression as legends, ghost tales, humor, music, and sermons as they express and shape particular regional and/or ethnic American identities. Course materials include ethnographic writing, sound recordings, film, and folklore scholarship. Attention also given to the competing and sometimes contradictory definitions of "folk" culture from the 19th century to the present.

AMS 271 Film and American Culture. 3 hours.

Interdisciplinary investigation of American culture through motion pictures, film history, and relevant cultural/historical documents. Focus on the ways in which films have reflected and influenced prevailing American attitudes and values. Variable focus on a specified theme, genre, or representations of a particular American region.

AMS 280 Rock, Soul, and Country (same as AAST 280). 3 hours.

After 1965, rock and roll became rock, representing the counterculture; rhythm and blues became soul, representing Black Power; and country music became the emotional voice of the post-Civil Rights white South. This class contrasts these three dominant American popular music genres, looking as well at a later generation of "alternative" rock, hip-hop, and "new country."

Unless otherwise stated, the prerequisite for 300-level courses is 6 hours in American studies or permission of the instructor.

AMS 300 Special Topics. 3 hours.

Selected American topics for advanced undergraduate students, offered by American Studies faculty members or Americanists from related departments. Recent examples include American Hobo Subculture, World War II and Modern Memory, Women's Liberation Movement, Justice and Civil Society, Southern Sexual Cultures, and Cultures of American Slavery. May be repeated for a maximum of 12 hours.

AMS 302 The Black Church (same as AAST 302). 3 hours.

A survey of mainstream Christian expressions of black spirituality as well as other forms of sacred collective consciousness. Study of local churches and theology is encouraged.

AMS 303 Education of Southern Blacks (same as AAST 303). 3 hours.

A study of the "miseducation" of Africans in America. The course explores education for blacks from West Africa at the middle of the second millennium and early American society to the emergence of the separate school system of the 19th and 20th centuries.

AMS 306 Landscape of the South. 3 hours.

A study of environmental and cultural landscapes of the American South, as altered and used by successive waves of native peoples, explorers, immigrants, laborers, industrialists, and urban builders, addressing historical and contemporary environmental challenges.

AMS 311 The Latino/Latina Experience. 3 hours.

Focuses on the history, society, and culture of people of Latin American descent in the U.S. Among other issues central to the Latino community, students will study migration patterns, cultural interaction, community and cultural formation, and racial formation.

AMS 315 United States Labor since 1865. 3 hours.

Examines the history of workers—men and women, paid and unpaid, of different racial and ethnic groups, in different regions of the United States—from 1865 to the present.

AMS 316 Labor and the Working Class in Film. 3 hours.

This course examines the ability of film to successfully portray the history of labor in the U.S. and how present events and attitudes shape portrayals of past events.

AMS 319 P.T. Barnum's Century. 3 hours.

Examines 19th-century American popular culture as epitomized by the famous showman P.T. Barnum (1810–91), by using Barnum as a prism to focus on how American culture offered spectacular possibilities for self-advancement and self-delusion.

AMS 321 African American Folk Art. 3 hours.

An examination of the objects created by African Americans variously classified as "folk," "self-taught," and "outsider" artists. Course material will address the African origins and American transformations of traditional arts and crafts (architecture, pottery, iron work, and quilting) as well as the work of selected 20th-century artists in such media as painting, sculpture, and assemblage. Key concerns will include not only analysis and cultural/historical contextualization of these artists and their works but also political and theoretical debates with respect to issues of collection, modes of exhibition, and use of the above-listed classifications.

AMS 325 America, the West, and the 19th Century. 3 hours.

Few things remained so central to the 19th American century experience as the West, a region to be explored, inhabited, and incorporated into an expanding urban-industrial society. From Lewis and Clark to Buffalo Bill, this lecture/discussion course examines the relationship between America and the West as it developed throughout the 19th century.

AMS 326 The Modern West. 3 hours.

This lecture/discussion course examines the growth of the American West during the 20th century as both the embodiment of modernity and, as mythic imagination, an escape from the very modernity it represents.

AMS 335 American Pop Music: New Histories and Interpretations.

3 hours.

Recent scholarship has shifted popular music history from folk roots and rock rebellion to pop: commercial, accommodating, but no less fascinating amalgamations. This class will range from blackface minstrelsy in the 1800s to American Idol today, defining mainstreams rather than undergrounds. Pop music performed capitalism, but it also performed democracy. Sorting out that process will be the task.

AMS 340 Women in the South (same as AAST 340). 3 hours.

What insights into American experience are afforded by reading nineteenth- and twentieth-century texts in which Southern women engage questions of gender, class, race, labor, and region? This class will explore fictional and nonfictional prose by and about Southern women in order to examine how historical, cultural, and sociopolitical factors have shaped the lives and writings of women in the South.

AMS 341 African American Art (same as AAST 341). 3 hours.

An examination of the work of formally trained 20th century African American painters, sculptors, and photographers in relation to broader currents in the social and cultural history of the United States. Examines ways in which African American art has alternately reflected, shaped, and challenged such important historical events and currents as the Harlem Renaissance, the Great Depression, the Cold War, the Civil Rights and Black Power movements, the Women's Movement, and contemporary identity politics. Also evaluates the contributions of selected artists in relation to such key art movements as Modernism, Social Realism, and Postmodernism.

AMS 350 The American Fifties. 3 hours.

An interdisciplinary investigation of American culture in a period framed by the bombing of Hiroshima in 1945 to the election of President John F. Kennedy in 1960.

AMS 351 American Musical Theatre History (same as TH 351). 3 hours.

Prerequisite: Junior standing or permission of the instructor.

Provides a review of the historical genres, circumstances, people, and catalogue of material that developed the American musical theatre from its minstrel beginnings to the multi-million dollar spectacles of today.

AMS 364 The Beatles Era. 3 hours.

Interdisciplinary investigation of American culture from the Kennedy assassination in 1963 to the Kent State University massacre in 1970 using the popular cultural explosion of the Beatles as a prism that informs the whole.

AMS 367 The American Game. 3 hours.

Lecture topics, readings, and classroom discussions will pursue major connections between baseball and American society from 1880 to the present: (1) the modernization of America and the rise of an urban, industrial game; (2) baseball and race; and (3) postwar America and baseball.

AMS 390 Gender and Culture. 3 hours.

This course explores "gender" and "culture" as categories of critical and historical analysis. Engaging a range of theoretical and methodological approaches, students will examine how these categories are produced and contested over time while paying particular attention to the intersections of gender constructions and identities with race, sexuality, class, region, and nation. Students will analyze a variety of modes of representation, including documentary and feature film, literature, material culture, visual cultures, and historical, and theoretical works.

Prerequisite for 400-level courses: 9 hours in the department or permission of the instructor.

AMS 400 Internship. 1 to 3 hours, pass/fail.

Prerequisite: Permission of the departmental chairperson.

An internship opportunity that combines independent study and practical fieldwork experience focusing on a particular problem or topic related to American culture and experience. Examples are internships in archival fieldwork, material culture fieldwork, museum management, and sound recordings. Credits earned in this course are applicable to the major and minor in American studies but are not counted in 400-level requirement. May be repeated for a maximum of 6 hours.

AMS 401 African American Experience (same as AAST 401). 3 hours.

An interdisciplinary investigation of the complexities of the African American experience in American culture, ranging from emergence of the Atlantic world and the slave trade to critical issues of the early 21st century. Topics may include the influence of African traditions on American culture; chattel slavery and its historical legacy; the role of religion in the social history of African Americans; the contributions of African Americans to the creative arts; and the critical role played by African Americans in American freedom struggles. To address such topics—and the intersection of these topics with one another—the course will explore insights from various scholarly disciplines and examine several kinds of cultural artifacts such as autobiography, oral history, film, literature, music, and the visual arts.

AMS 402 Special Topics in African American Studies (same as AAST 402). 3 hours.

Selected African American topics for advanced undergraduate students. May be repeated for a maximum of 12 hours.

AMS 403 Honors Research: American Studies and American Culture. 3 hours.

Prerequisite: Sponsorship of a faculty member and 3.3 overall GPA or membership in the University Honors Program.

Internship opportunity that combines guided and independent study with on- or off-campus research experience involving a particular methodological approach to American culture and experience. Examples are social science methods, oral history, original manuscript research, and technology.

AMS 405 Directed Study. 1 to 3 hours each semester.

Prerequisite: Sponsorship of a faculty member.

May be repeated for a maximum of 6 hours.

AMS 415 Service Learning in the Latino Community. 3 hours.

This course will examine the immigrant journey and immigrant life in the American South. Through lectures, class discussions, readings, films, outside speakers, and a community-based service learning project, the course will help students better understand the historical and contemporary issues that confront immigrants and their receiving communities. Students will interact with members of local immigrant communities by being placed with appropriate organizations or agencies that assist immigrants in the community.

AMS 421 Writer and Artist in American Culture. 3 hours.

An examination of the changing social and cultural background of American writers and artists during the 19th and 20th centuries. Topics will include the definition of the developing role of the artist in American culture, an assessment of the American and European influences on artists, and an appraisal of the influence of artists on American culture. Painting, literature, music, photography, and architecture are among the arts dealt with.

AMS 422 Popular Culture in America. 3 hours.

A selective survey and analysis of 20th century U.S. popular culture—particularly, comic books, fan culture, television, music, advertising, and sports. Examines ways in which popular culture has reflected and shaped aspects of American society such as gender ideologies, economics, race, class, and regional identity.

AMS 429 America between the Wars. 3 hours.

Explores the first two decades of America's "Modern Times" (1919–41), when Americans redefined themselves and their society, embracing and debating (sometimes hotly) old beliefs, new conceptions, and the implications of a machine-driven, modern-mass society.

AMS 430 Special Topics. 1 to 3 hours.

Selected American topics for advanced undergraduate majors in American studies, offered by American Studies faculty members or Americanists from related departments. May be repeated for a maximum of 6 hours.

AMS 445 The "Good War." 3 hours.

Examination of selected topics from the American experience during the Second World War. Topics include the Homefront, the Holocaust, race relations, the emergence of American air power, and the impact of the war on American memory and postwar American society.

AMS 450 Women in America. 3 hours.

A lecture/discussion course on the role of women in American culture that concentrates on the major social and cultural contributions of women from all backgrounds and walks of life. Key questions involve the historic roles of women in America and how their status reflects the structure of society as a whole. Most of the readings focus on the 20th century and the relationships between individual women and the cultural networks in which they participate and help create.

AMS 460 Race and Ethnicity in U.S. Labor. 3 hours.

This course is designed to familiarize students with the important topics, themes and methodologies in the study of race and ethnicity in U.S. labor. Throughout the semester, the class will examine the lives of working women and men and their roles in the social, political, and economic development of the United States. The class will analyze the role of gender, race, and ethnicity at home and in the workplace and examine how scholars have studied the people, events and institutions in this field.

AMS 465 Fictions of American Identity. 3 hours.

An examination of American literature and culture from before the Civil War until after the Civil Rights Movement. Representations of American experience in essays, novels, poems, short stories, social reformist tracts, and the visual arts will be studied in the context of social and political debates over slavery, national identity, women's roles, immigration and assimilation, social mobility, urbanization, sexual mores, consumer culture, and race relations.

AMS 470 Native-White Relations to 1830. 3 hours.

This course will focus on the complex and intertwined relationships between Native Americans and white peoples: how each challenged, adapted to, and retreated from the other up to 1830. The class will assess: colonial encounters among Native Americans, Spanish, French, and English; the meanings of white captives among the Indians; crossing over into different cultures and transforming identities in the new nation; and the impact of forced removal of Indians.

AMS 476 Constructing the American Revolution, 1776-1865. 3 hours.

From the Declaration of Independence to the Civil War, Americans have continually tried to provide narrative shape and cultural significance to their national origins. Through the analysis of primary and secondary sources (political tracts, art works, histories, biographies, fiction, and other artifacts), this course will explore the relationship between the eighteenth-century revolutionaries' and their nineteenth-century heirs' cultural construction of the Revolution. Simply put, this course is about how people in the past have thought about their own past.

AMS 480 Democracy in America. 3 hours.

Throughout the first half of the nineteenth century, Americans prided themselves on their democratic politics, industrial progress, science and technology, religious faiths, capitalist tendencies, and control over nature. No other person captured the essence of American society and manners more than the French aristocrat, Alexis de Tocqueville, who traveled to the United States in the 1830s and published his famous work, Democracy in America. Using Tocqueville's observations as well as fiction, autobiography, painting, politics, and more, this course explores how ordinary Americans presented themselves as a democratic people from 1800 to 1865.

AMS 491 American Period Seminar. 3 hours.

In-depth study of a particular period or era in American historical experience. Recent examples include the Ragtime Era, the Jazz Age, the Great Depression, the Season of 1954-55, the '60s, Contemporary America, the Romantic Revolutionaries (1905-14), the Postwar Era, American Avant Garde, the South and '30s Expression, the Civil Rights Movement, the American '20s, the '50s, America between the Wars, the Colonial Period, the Aspirin Age, Postmodern America, Contemporary America, and Writing West.

AMS 492 American Topic Seminar. 3 hours.

Study of special topics within the American cultural experience. Recent examples include American Thought, Sports in American Life, American Perspectives on the Environment, the Civil Rights Movement, the Picture Press, Music and Ethnicity, the Politics of Culture, Regionalism, Homelessness in America, American Autobiography, American Monuments, Southern Popular Culture, Politics and Culture, Historical Memory, America by Design, Women in America, Race in America, 19th-Century Popular Culture, and Disasters in America.

ANTHROPOLOGY (ANT)

Office: 19 ten Hoor Hall

ANT 100 Introduction to Anthropology. 3 hours.

Introduction to the study of man from an anthropological perspective. Contributions to understanding man from the humanities, as well as the biological, social, and historical sciences are considered.

ANT 102 Introduction to Cultural Anthropology. 3 hours.

Introduction to the study of contemporary cultures and societies and the linguistic components of human behavior.

ANT 103 Great Discoveries in Archaeology. 3 hours.

This course deals with the major archaeological discoveries made in the past two centuries and their impact on Western thought.

ANT 106 Indians of North America. 3 hours.

Comprehensive overview of the prehistory, history, and contemporary culture of native North American Indians.

ANT 107 Introduction to Archaeology. 3 hours.

Overview of the methods archaeologists use to study prehistoric cultures and an introduction to the study of human culture over the past two million years.

ANT 113 Indians of the Deep South. 3 hours.

Introduction to the Native Americans of Alabama and their nearby neighbors. Focuses on describing and explaining lifeways of indigenous peoples using ethnographic, ethnohistoric, and archaeological studies.

ANT 150 Evolution for Everyone: A Multi-disciplinary Introduction. 3 hours.

This course is designed to open student minds to what evolution is and how it applies to all life. Toward that end, the class will view lectures given by evolutionary scholars from varied institutions and disciplines.

ANT 208 Anthropology of Sex: Love and Hope and Sex and Dreams. 3 hours.

An introduction to human sexuality from a biocultural perspective with emphasis on sexual diversity, pluralism, and psychosexual evolution.

ANT 210 Language and Culture. 3 hours.

Human activity in its linguistic, cultural, and social contexts; interrelationships between culture and natural language; and the influences of language and culture on thought and behavior.

ANT 215 Anthropology in Movies and Fiction. 3 hours.

Compares portrayals of anthropologists and core anthropological issues in movies and fiction to anthropological perspectives and scholarship.

ANT 250 Issues in Anthropology. 3 hours.

Prerequisite: 3 hours in anthropology or permission of the instructor. This course is a flexible listing designed to cover specific topics in anthropology not already offered through an existing course. It is similar to ANT 450 Problems in Anthropology, but allows students with less exposure to anthropology, or the particular issues addressed, an opportunity to learn at a more introductory level.

ANT 269 Field Archaeology. 1 to 12 hours.

Supervised participation in the excavation and analysis of archaeological deposits.

ANT 270 Introduction to Physical Anthropology. 3 hours.

Introduction to the study of human biological and cultural evolution.

ANT 275 Race, Ethnicity, and Human Variation. 3 hours.

Historical and contemporary perspectives on human biological diversity, including the concepts of race, ethnicity, adaptation, and some of the social implications of these views.

ANT 311 Population, Health, and Human Origins. 3 hours.

Prerequisite: ANT 101 or permission of instructor.

Focuses on the relationships among human ecology, population growth, health and disease, and adaptation in modern and prehistoric societies. Explores the origins of infectious diseases, emphasizing the principles of epidemiology and evolution of pathogens.

ANT 312 Monkeys, Apes, and Other Primates: An Introduction to Non-human Primates. 3 hours.

Prerequisites: ANT 100, ANT 270, or permission of the instructor.

An introductory survey of the world's living non-human primates that focuses on taxonomy, anatomy, behavior, ecology, and cognition.

ANT 317 Anthropology and Modern Life. 3 hours.

Prerequisite: 9 hours in anthropology or permission of the instructor.

Application of anthropological theories and findings to selected issues and problems of living in complex industrialized societies. Offered according to demand.

ANT 318 Ancient Cities and Empires. 3 hours.

Prerequisite: ANT 107 or permission of the instructor.

A comparative study of ancient cities and empires, with examples from the Old and New Worlds.

ANT 319 Ancient New World Civilizations: The Aztec, Maya, and Inka. 3 hours.

Prerequisite: ANT 107 or permission of the instructor.

An introduction to the ancient civilizations of Mesoamerica and South America. Explores the development of economic and political institutions as well as hieroglyphic texts, art styles, and religious rites.

ANT 367 Old World Archaeology. 3 hours.

Origin and development of Old World cultures from the early Stone Age to the Iron Age.

ANT 368 Southeastern Archaeology. 3 hours.

Prerequisite: ANT 107 or permission of the instructor.

Origin and development of pre-Columbian and early historic cultures of the Southeast. Offered according to demand.

ANT 370 North America Archaeology. 3 hours.

Prerequisite: ANT 107 or permission of the instructor.

Examination of important discoveries and current research in the different areas of North America, including the Eastern Woodlands, Southwest, Plains, Great Basin, Plateau, California, Northwest Coast, subarctic, and Arctic.

Unless otherwise stated, the prerequisite for 400-level courses is 12 hours in anthropology, graduate standing, or permission of the instructor.

ANT 401 Anthropological Linguistics. 3 hours.

Scientific study of natural language—phonology and grammar, lexicon and meaning—and the role of linguistics in anthropological research. Offered according to demand.

ANT 402 Gender, Ethnicity, and Health. 3 hours.

Explores the gendered, ethnic, cultural, and class dimensions of sickness worldwide, with attention to the long-term health effects of sexism, racism, and poverty.

ANT 405 Culture, Mind, and Behavior. 3 hours.

Cultural and linguistic basis of cognitive organization, systems of folk classifications, and collection and analysis of data of shared cultural and social information. Offered according to demand.

ANT 408 Ancient Mexican Civilizations. 3 hours.

Survey of the origins and development of ancient civilizations in Mexico.

ANT 409 Ancient Maya Civilizations. 3 hours.

Ancient Maya civilizations in Mexico and Central America from the earliest inhabitants until the Spanish Conquest.

ANT 411 Culture, Health, and Healing. 3 hours.

Survey of health, illness, and healing among and within different cultural systems.

ANT 412 Peoples of Europe. 3 hours.

A review of selected aspects of the customs, social systems, and cultures of European societies.

ANT 413 Peoples of Latin America. 3 hours.

A review of selected aspects of the customs, social systems, and cultures of Latin American societies.

ANT 414 Peoples of Africa. 3 hours.

A review of selected aspects of the customs, social systems, and cultures of African societies.

ANT 415 Peoples of East Asia. 3 hours.

A review of selected aspects of the customs, social systems, and cultures of East Asian societies.

ANT 417 Peoples of South Asia. 3 hours.

A review of selected aspects of the customs, social systems, and cultures of South Asian societies.

ANT 418 Development in Non-Western Culture. 3 hours.

Theoretical and descriptive study of social change and development in non-Western societies. Major emphasis is placed on the effects of change on indigenous institutions. Both ethnographic and theoretical literature are examined. Offered according to demand.

ANT 419 Myth, Ritual, and Magic (same as REL 419). 3 hours.

Survey of the anthropological literature on religion, including such topics as myth, ritual, magic, witchcraft, totemism, shamanism, and trance states. Offered according to demand.

ANT 420 Background of Anthropological Thought. 3 hours.

Intensive review of the work of several early figures in the development of social theory (e.g., Marx, Freud, Durkheim, Weber), emphasizing their relevance for modern anthropology. Offered according to demand.

ANT 423 Legal Anthropology. 3 hours.

Overview of legal systems and practices worldwide, with a focus on current issues of cross-cultural importance.

ANT 424 Cultural Resource Management. 3 hours.

The theory and strategies of, and processes for, undertaking research within the legal and practical setting of CRM-driven archaeology.

ANT 425 A Survey of the History of Archaeology. 3 hours.

Critical examination of archaeology's history as a science, with emphasis on intellectual trends, changes in methods and theory, and recent developments.

ANT 426 Archaeology of Eastern North America. 3 hours.

Prerequisite: ANT 107 or permission of the instructor.

Examination of the origins and developments of pre-Columbian and early historic cultures of eastern North America.

ANT 430 Topics in Archaeology: The Archaeology of Africa. 3 hours.

Examination of the origin and development of prehistoric and early historic cultures in sub-Saharan Africa. Offered according to demand.

ANT 431:432 Readings in Anthropology. 1 to 3 hours.

Honors readings for seniors and graduate students. Offered with permission of instructor only.

ANT 436 Social Structure. 3 hours.

Social organization and structure, social life and institutions (especially in non-literate societies), kinship, descent groups, marriage, residence, and local group composition. Offered every third semester.

ANT 439 Topics in the Anthropology of Religion. 3 hours.

An examination of contemporary issues and topics in the anthropology of religion.

ANT 440 Culture. 3 hours.

A selective review of past and contemporary concepts, theories, and methodological approaches adopted by cultural anthropologists.

ANT 441 Documenting Justice I. 3 hours.

Interdisciplinary course in ethnographic filmmaking, focusing particularly on analyzing the many dimensions of culture and social experience. Students produce a short documentary film on a story of justice or injustice in Alabama. Application and permission of instructor required.

ANT 442 Documenting Justice II. 3 hours.

Continuation of ANT 441.

ANT 444 Anthropology and Cemeteries. 3 hours.

Using approaches developed in the discipline of anthropology and, more particularly, in the subfield of archaeology, an exploration of the different ways in which local cemeteries can yield information on cultural, societal, and historical matters.

ANT 445 Historical Archaeology. 3 hours.

Combines the methods used in historical archaeology with a basic survey of the archaeological record of the historic period of North America.

ANT 450 Problems in Anthropology. 1 to 6 hours.

Devoted to issues not covered in other courses. May be repeated for a maximum of 6 hours.

ANT 451 Undergraduate Research. 1 to 6 hours.

An introduction to independent anthropological research with a focus on constructing testable hypotheses, selecting variables, measuring attributes, recording data, making interpretations, and writing and presenting results.

ANT 455 Africans in the Americas. 3 hours.

Examination of the society and culture in communities of Africans in the New World. The emphasis is on diversity within the Western Hemisphere, with a focus on the three main centers of New World African society: Brazil, the West Indies, and the United States.

ANT 460 Anthropology and Natural History Museums. 3 hours.

Examines the historical connections between anthropology and natural history museums in the United States. Explores the present operation of such museums and develops exhibits based on collection studies.

ANT 465 Lithic Analysis. 3 hours.

Introduction to the basics of analysis of stone tools, their manufacture, and their use by means of microscopic and macroscopic approaches.

ANT 466 Laboratory Methods in Archaeology. 3 hours.

Instruction in the laboratory processing, classification, and elementary data manipulation of archaeological materials.

ANT 467 Methods of Prehistoric Iconography. 3 hours.

An exploration of the concepts and methods used by prehistoric archaeologists to impute meanings in representational art.

ANT 471 Fossil Man and Evolution. 3 hours.

Survey of the discoveries, methods, and theories that provide the background for modern research in macroevolution. Offered according to demand.

ANT 473 Human Osteology. 4 hours.

Detailed introduction to human osteology emphasizing the identification of fragmentary remains and the criteria for determination of age, sex, and race. Two hours' lecture, two hours' laboratory. Offered according to demand.

ANT 475 Human Adaptability. 3 hours.

An introduction to the biological bases of human adaptability. Offered according to demand.

ANT 476 Nutritional Anthropology. 3 hours.

Introduction to anthropological inquiries in nutrition (including food habits, food systems, and dietary variability) from a cross-cultural perspective.

ANT 478 Anthropology of Human Development. 3 hours.

Prerequisite: ANT 270 or permission of the instructor.

Healthy, culturally competent, socialized adults and mature physical forms arise from a developmental process with evolutionary, biological, social, and cultural dimensions. Surveys child/human development from an anthropological perspective considering interactions across levels of analysis from genes to culture.

ANT 479 Human Paleopathology. 3 hours.

Course investigates skeletal pathology and trauma. Topics include understanding disease processes; distinguishing accidental and violent trauma on bone; and recognizing congenital anomalies, circulatory disorders, and diseases such as joint diseases, infectious diseases, metabolic diseases, skeletal dysplasias, neoplastic conditions, diseases of the dentition and other conditions. Students will inventory, evaluate, and analyze sets of human skeletal remains for pathology and trauma and complete final reports on those remains.

ARABIC (ARB)

Office: 200-D B.B. Comer Hall

ARB 101 Elementary Arabic. 3 hours.

Modern Standard Arabic (MSA)—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week online or in class with a language “trainer” who is a native/near native speaker (or superior level) of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

ARB 102 Elementary Arabic II. 3 hours.

Prerequisite: ARB 101 or equivalent.

Modern Standard Arabic (MSA)—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week online or in class with a language “trainer” who is a native/near native speaker (or superior level) of the language. Offered each semester. Not repeatable without the permission of the CLC director.

ARB 201 Intermediate Arabic I. 3 hours.

Prerequisite: ARB 102 or equivalent.

Continuation of Arabic language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director.

ARB 202 Intermediate Arabic II. 3 hours.

Prerequisite: ARB 201 or equivalent.

Continuation of ARB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without the permission of the CLC director.

ART HISTORY (ARH)

Office: 103 Garland Hall

ARH 151 through ARH 254 have no prerequisites. They are introductory courses designed to give beginning students a broad survey of world art through a study of major monuments in their historical and social contexts.

ARH 151 Introduction to the Visual Arts. 3 hours.

Not applicable to the studio or art history majors or minors. Introduction to the appreciation of art through an examination of the nature, themes, and purposes of art, the exploration of visual arts media and methods; and a survey of art history and artistic masterpieces.

ARH 252 Survey of Art I. 3 hours.

Survey of major examples of painting, sculpture, and architecture from the prehistoric through the medieval periods.

ARH 253 Survey of Art II. 3 hours.

Survey of major examples of painting, sculpture, and architecture from the Renaissance through the modern periods.

ARH 254 Survey of Art III. 3 hours.

Survey of major examples of painting, sculpture, and the applied arts of India, China, Korea, Japan, and Southeast Asia.

ARH 291 Special Projects. 3 hours.

This number is used for special projects determined by the instructor or for independent research projects proposed by students. In the latter case, the project must be approved by a sponsoring faculty member and the department chairperson. May be repeated for a maximum of 6 hours.

ARH 351 through ARH 489 provide intermediate and advanced students with opportunities to investigate specific topics and problems in art history.

ARH 351 Ancient Art. 3 hours.

Prerequisite: ARH 252.

Survey of the contributions of Egypt, Greece, and Rome to the development of Western architecture, sculpture, and painting.

ARH 355 Chinese Painting. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

Survey of Chinese pictorial art from the Bronze Age to the present day.

ARH 356 Japanese Painting and Prints. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

Survey of painting and woodblock prints of Japan.

ARH 363 Masterpieces of Spanish Art. 3 hours.

Prerequisite: 12 hours of 200- and 300-level art history courses or permission of the instructor.

Selected monuments of peninsular Spanish art from the prehistoric period to the contemporary period.

ARH 364 Renaissance Art. 3 hours.

Survey of 15th- and 16th-century painting, sculpture, and architecture in Europe.

ARH 365 Northern Renaissance Art. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

The art of Flanders and Germany in the 15th and 16th centuries.

ARH 367 Art and Patronage in Renaissance Florence. 3 hours.

Survey of the art of Florence emphasizing the artists and the patrons, such as the religious orders, guilds, and private families who created the Renaissance style in painting, sculpture, and architecture.

ARH 368 High Renaissance and Mannerist Art. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

Study of Italian painting, sculpture, and architecture in the 16th century.

ARH 371 Baroque Art in Southern Europe. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

Survey of painting, sculpture, and architecture in 17th-century Italy, Spain, and France.

ARH 373 Baroque Art in Northern Europe. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

Survey of the art of 17th-century Belgium and Holland, with emphasis on the work of Rubens, Rembrandt, and Vermeer.

ARH 375 Nineteenth-Century Art. 3 hours.

Painting and sculpture from the Neoclassical through the Post-Impressionist periods.

ARH 376 American Architecture. 3 hours.

American architecture from the colonial period to the 20th century.

ARH 377 American Painting and Sculpture. 3 hours.

American painting and sculpture from the colonial period to the 20th century.

ARH 380 Art Theory and Criticism. 3 hours.

Prerequisite: 6 hours of 200-level ARH courses or permission of the instructor.

Study of 20th-century art theory and criticism.

ARH 381 Art since World War II. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

Modernist and postmodernist art and architecture from the mid-20th century to the present.

ARH 383 Pop Art. 3 hours.

Prerequisite: 6 hours of 200-level art history courses or permission of the instructor.

An in-depth study of examples of Pop Art in America and Europe.

ARH 385 Early 20th-Century Art. 3 hours.

Prerequisite: 6 hours of 200-level ARH courses or permission of the instructor.

Painting and sculpture from Impressionism to World War II.

ARH 400 Photographic Discourse. 3 hours.

Prerequisite: 12 hours of 200- and 300-level ARH courses or permission of the instructor.

Study of the history of photography and ideas about photographic practices.

ARH 455 Topics in Asian Art. 3 hours.

Prerequisite: 12 hours of 200- and 300-level art history courses or permission of the instructor.

Selected topics in the art of China and Japan.

ARH 456 The Arts of Buddhism. 3 hours.

Prerequisite: ARH 254, ARH 355, or ARH 356 or permission of the instructor.

Major movements and styles inherent in the artistic products of India, China, Japan, Southeast Asia, Tibet, and Nepal.

ARH 461 Topics in Medieval Art. 3 hours.

Prerequisite: 12 hours of 200- and 300-level art history courses or permission of the instructor.

Selected periods, patrons, and monuments from the late Antique period to the Gothic period.

ARH 467 Topics in Renaissance Art. 3 hours.

Prerequisites: ARH 365 and 9 additional hours of 200- and 300-level art history courses or permission of the instructor.

Selected artists, monuments, and patrons of the Renaissance and the Mannerist period.

ARH 470 Topics in Baroque Art. 3 hours.

Prerequisite: 12 hours of 200- and 300-level art history courses or permission of the instructor.

Selected artists, monuments, and patrons of the 17th century.

ARH 481 Topics in 20th-Century Art. 3 hours.

Prerequisites: ARH 385 and 9 additional hours of 200- and 300-level art history courses or permission of the instructor.

Study of selected themes in modern and contemporary art. May be repeated for a maximum of 12 hours.

ARH 483 Topics in American Architecture. 3 hours.

Prerequisite: 12 hours of 200- and 300-level art history courses or permission of the instructor.

Study of selected American architectural styles or movements. Examples are Greek Revival Architecture in the Deep South, the International Style, and Postmodernism.

ARH 491 Independent Studies. 3 hours.

Prerequisite: 12 hours of 200- and 300-level art history courses or permission of the instructor.

This number is used for special projects determined by the instructor or for independent research projects proposed by students. In the latter case, the project must be approved by a sponsoring faculty member and the department chairperson. May be repeated for a maximum of 6 hours.

ART, STUDIO (ART)

Office: 103 Garland Hall

FOUNDATIONS COURSES

ART 110 Drawing I. 3 hours.

Basic studio course concerned with comprehension of visual concepts and development of skills through exposure to drawing media.

ART 130 Design I. 3 hours.

Introductory course that explores two-dimensional concepts in a variety of processes and media.

ART 131 Design II. 3 hours.

Introductory course that explores three-dimensional concepts in a variety of processes and media.

ART 210 Drawing II. 3 hours.

Prerequisite: ART 110.

Continuation of Drawing I with emphasis on creative development of visual ideas using traditional and experimental techniques and media.

ART 302 Color Theory. 3 hours.

Prerequisite: ART 130.

Course focuses on both analytical and intuitive understanding and application of color.

ART 310 Figure Drawing. 3 hours.

Prerequisites: ART 110 and ART 130.

Individual exploration of figurative forms in a variety of drawing media and processes.

ART 311 Figurative Modeling. 3 hours.

Prerequisites: 6 hours from courses at the Studio Foundation Level.

Course offers students a chance to explore figurative ceramic modeling and sculpting as it relates to representing a likeness.

INTRODUCTORY STUDIO COURSES

ART 208 Special Projects. 3 hours.

Topics not taught in the regular curriculum. May be repeated for a maximum of 9 hours.

ART 212 Ceramics. 3 hours.

Completion of ART 110, ART 130, and ART 131 is recommended before taking this course. Exploration of ceramics media and processes with emphasis on the development of individual concepts.

ART 216 Painting. 3 hours.

Prerequisite: ART 110 or ART 130.

An introductory course designed to strengthen the individual student's awareness of the history and techniques of the craft of painting while exposing the student to contemporary styles and ideas of painting.

ART 218 Photography. 3 hours.

Prerequisite: ART 110 or ART 130.

Study of photography and photographic processes employed as creative media. Basic black-and-white processing and printing.

ART 220 Printmaking. 3 hours.

Prerequisite: ART 110 or ART 130.

Survey of printmaking processes including intaglio, relief, screen print, and lithography.

ART 222 Sculpture. 3 hours.

Prerequisite: ART 131.

Introduction to basic sculptural skills—including plaster, wood, aluminum casting, direct construction, and various mixed materials and techniques—with emphasis on craftsmanship, content, and idea development.

ART 224 Digital Art. 3 hours.

Prerequisite: ART 110 or ART 130.

An introduction to computer-based art making, digital literacy, image processing, and digital printing.

INTERMEDIATE STUDIO COURSES

ART 305 Aqueous Media. 3 hours.

Prerequisites: ART 110, ART 210, ART 216, and ART 302.

The history and technique of watercolor, gouache, tempera, casein, and acrylic media. Students are exposed to contemporary styles, concepts, and ideas regarding the use of wet media.

ART 308 Printmaking and Sculpture: The Connection. 3 hours.

Prerequisites: ART 110 and ART 131.

Explores relationship between two and three dimensions. Class will consist of 2-D and 3-D imaging techniques through studio/lab assignments.

ART 312 Ceramics. 3 hours.

Prerequisite: ART 212.

Emphasis is on individual approaches to media, methods, and activities.

ART 313 Ceramics. 3 hours.

Prerequisite: ART 312.

Emphasis is on individual approaches to media, methods, and activities.

ART 314 Typography. 3 hours.

Prerequisite: ART 224.

Further development of design methods and processes including typography, image processing, visual communication, and digital design production.

ART 315 Digital Layout and Production. 3 hours.

Prerequisite: ART 224.

Further development of design methods and processes including grids, page layout, visual communication, and digital design production.

ART 316 Painting Composition. 3 hours.

Prerequisite: ART 216.

The applied study of pictorial manipulation through color and design principles.

ART 317 Painting Concepts. 3 hours.

Prerequisite: ART 316.

A course designed to increase understanding of subject, meaning and context with the objective of making the transition between guided assignments and personal pursuits.

ART 318 Photography. 3 hours.

Prerequisite: ART 218.

Emphasis is on individual approaches to media, methods, and activities.

ART 319 Photography. 3 hours.

Prerequisite: ART 318.

Emphasis is on individual approaches to media, methods, and activities.

ART 320 Printmaking. 3 hours.

Prerequisite: ART 220.

Further exploration of intaglio and relief processes with emphasis on both technical and conceptual development.

ART 321 Printmaking. 3 hours.

Prerequisite: ART 220.

Further exploration of lithography and screen print processes with emphasis on both technical and conceptual development.

ART 322 Sculpture. 3 hours.

Prerequisites: ART 131 and ART 222.

Introduction to advanced sculptural thinking and problem solving with assignments geared toward the development of skills and abilities in working with a range of materials and techniques such as metal casting, fabrication, rubber, leather, wood, and stone fabrication.

ART 323 Sculpture. 3 hours.

Prerequisites: ART 131, ART 222, and ART 322.

Continued development of 3-D thinking and technical skills through assignments addressing a variety of materials and processes, including physics in three dimensions, the illustration of intangible thoughts with physical objects, the relevance of self to sculpture, and an examination of personal aesthetic.

ART 324 Digital Art. 3 hours.

Prerequisite: ART 224.

Projects allow for individual approaches and further development of digital art methods and processes.

ART 325 Monotype/Monoprint. 3 hours.

Prerequisite: ART 316 or permission of the instructor.

Introduction to printmaking using materials and methods based on the students' existing skills with acrylic and/or oil paint mediums.

ART 328 Digital Photographic Arts. 3 hours.

Prerequisites: ART 218 and ART 224.

This course will explore intermediate aspects of digital photography practice. The course has technical, aesthetic and conceptual elements that will be expressed through demonstrations, lectures, and assignments/projects. The course will culminate in the completion of assignments and a professional portfolio.

ART 329 Photo-Based Printmaking. 3 hours.

Prerequisite: ART 318 or permission of the instructor.

Printmaking using photographic techniques to create a variety of matrices, including intaglio and screen printing processes.

ART 330 Advanced Studio Seminar. 3 hours.

Prerequisites: ART110, ART130, ART131, and one of the following: ART 212, ART 216, ART 218, ART 220, ART 222, or ART 224.

An examination of the studio practices of successful artists.

ART 406 Independent Study. 3 hours.

Students may make proposals for projects not taught in the regular curriculum. Proposals must be approved by a sponsoring faculty member and the department chairperson.

ART 408 Special Projects. 3 hours.

Topics not taught in the regular studio curriculum such as Photo-based Printmaking, Water Media on Paper, Digital Design Applications, Figurative Modeling and Sculpture, and Alternative Photographic Processes.

ADVANCED STUDIO COURSES

ART 410 Drawing Seminar. 3 hours.

Prerequisites: ART 310 and/or any 300-level media focus course.

Self-directed studio practice overseen by the instructor. The student works toward creating a consistent and conceptually sound body of work that investigates contemporary and traditional definitions of drawing.

ART 412 Ceramics. 3 to 6 hours.

Prerequisite: ART 212, ART 312, and ART 313.

Directed studio practices overseen by the instructor and designed to enhance the student's understanding of advanced ceramics concepts and techniques.

ART 414 Digital Design Portfolio. 3 to 6 hours.

Prerequisite: ART 314 or ART 315.

Preparation of a graphic design portfolio. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.

ART 415 Digital Design Practicum. 3 hours.

Prerequisite: ART 414 or permission of the instructor.

Partnering agencies with design apprentices for hands-on training. Students are required to work no less than 10 hours per week.

ART 416 Advanced Painting Seminar. 3 to 6 hours.

Prerequisite: ART 317.

Self-directed studio practice overseen by the instructor. The student is expected to work toward creating a consistent and conceptually sound body of work. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.

ART 418 Photography. 3 to 6 hours.

Prerequisites: ART 318 and ART 319.

Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.

ART 420 Printmaking. 3 to 6 hours.

Prerequisite: 9 hours in this studio area.

Emphasis on individual approaches resulting in a cohesive body of work suitable for exhibition. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.

ART 422 Sculpture. 3 to 6 hours.

Prerequisite: ART 222, ART 322, and ART 323.

Development of work and thought at an advanced level in preparation for completion of the BA or BFA degree. Graduating semester includes a BA or BFA thesis exhibition accompanied by a written thesis requirement.

ART 424 Digital Art Seminar. 3 hours.

Prerequisite: 9 hours in this studio area.

Special topics in digital media. Enrollment for 4, 5, or 6 hours requires permission of the instructor. May be repeated for a maximum of 12 hours.

ART 430 Advanced Studio Seminar. 3 hours.

Prerequisite: ART 330.

Further exploration of the studio practices of notable artists.

OTHER ART COURSES

ART 153 Digital Creativity: Media Culture in the 21st Century. 3 hours.

Prerequisites: Grade of "C-" or higher in EN 101 and EN 102.

This course explores personal creativity while surveying creative practice from early 20th century to today with an emphasis on technology-based art and music.

ART 251 Reboot/Remix: Comics, Hip-Hop, and Virtual Worlds in Contemporary Art. 3 hours.

This course examines contemporary art through its relationship to three familiar popular culture phenomena: gaming and simulated environments; popular music; graphic novels and comics.

ART 309 Navigating the Art World: Theory and Practice. 3 hours.

Prerequisites: 6 hours of studio art courses or permission of the instructor. The theory and history of the art institutions that shape artists' careers and practical strategies for sustainable creative opportunities beyond the degree.

ART 380 Art Museum Practices. 3 hours.

Prerequisites: 15 hours of studio art or art history courses or permission of the instructor.

An overview of art museum practices. Students acquire informed perspectives on the general operations, strategies, policies, and practices inherent in a small art museum.

ARTS AND SCIENCES (AS)

Office: 200 Clark Hall

AS 100 Early College Continuous Enrollment. 0 hours.

Used as a course designation for all students enrolled in Early College.

AS 101 Freshman Seminar. 1 to 2 hours.

An orientation course designed to introduce students to the University and the College of Arts and Sciences and to assist in academic planning. Open to freshmen. May be repeated for a maximum of 4 hours. Pass/fail.

AS 102 Freshman Seminar. 1 hour.

A continuation of AS 101 for students in living-learning communities. Pass/fail.

AS 299 Junior Seminar. 1 hour.

Seminar for premedical, prelaw, and undecided juniors. Pass/fail.

ASTRONOMY (AY)

Office: 206 Gallalee Hall

A student must take both AY 101 and AY 102 in order to use either of these courses to satisfy part of the N requirement of the University Core Curriculum. The lecture/laboratory courses AY 101:102 and AY 203:204 may be used to satisfy the N requirement.

AY 101 Introduction to Astronomy. 3 hours.

History of astronomy, the solar system, stars, galaxies, and the universe; recent discoveries about pulsars, black holes, and quasars will be discussed.

NOTE: If the student plans to apply AY 101 toward satisfaction of the N requirement of the University Core Curriculum, AY 102 must also be taken.

AY 102 Introduction to Astronomy Laboratory. 1 hour.

Prerequisite or corequisite: AY 101.

Observation of the sun, moon, and daytime astronomical activity. Indoor exercises include stellar spectra, H-R diagram, celestial sphere, and astronomical photographic analysis. NOTE: If the student plans to apply AY 102 toward satisfaction of the N requirement of the University Core Curriculum, AY 101 must also be taken.

AY 203 Observational Astronomy. 2 hours.

Prerequisite: MATH 113 or MATH 115 (or equivalent) with a grade of "C-" or higher.

Corequisite: AY 204 or AY 206 or permission of the instructor.

Students learn to observe and photograph planets, stars, and galaxies using several kinds of telescopes. On cloudy nights, astronomical photographs and material obtained at other observatories are studied. One lecture and one laboratory. NOTE: If the student plans to apply AY 203 toward satisfaction of the N requirement of the University Core Curriculum, AY 204 must also be taken.

AY 204 Solar System Astronomy. 3 hours.

Prerequisite: MATH 113 or MATH 115 or equivalent.

Discussion of orbital mechanics and of the interior structure, surface features, atmosphere, and origin of the sun, planets, and solar system.

AY 206 Astronomy beyond the Solar System. 3 hours.

Prerequisite: MATH 113 or MATH 115 (or equivalent) with a grade of "C-" or higher.

Study of the evolution of stars, relativity and black holes, the structure of galaxies, and the formation and evolution of the universe.

AY 401 Celestial Mechanics. 3 hours.

Prerequisite: PH 301 or PH 302.

Review of the two-body problem, Kepler's equation, planetary orbits, gravitational potential, perturbations, and motions of rockets; discussion of the three-body and n-body problems. Star cluster and galaxy dynamics.

AY 421 Theoretical Astrophysics. 3 hours.

Prerequisite: PH 253.

Prerequisite or corequisite: PH 332.

Introduction to astrophysical processes in stellar atmospheres, stellar structure, stellar evolution, galactic structure, the interstellar medium, active galaxies, and quasars.

AY 433 Astronomical Techniques. 3 hours.

Survey of current experimental problems in astronomy and the methods used in solving them. Techniques discussed include photography, photometry, and spectroscopy.

AY 491 Independent Study I. 1 to 3 hours.

AY 492 Independent Study II. 1 to 3 hours.

ATHLETIC TRAINING (ATR)

Professor Deidre Leaver-Dunn, Director

Office: 106 East Annex

ATR 257 Introduction to Athletic Training. 3 hours.

The study of current principles in clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses.

ATR 258 Clinical Fundamentals in Athletic Training. 1 hour.

NOTE: Students must be enrolled in this course during the semester of ATEP application.

The study and practice of clinical skills in clinical evaluation, diagnosis, immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Directed observations under the supervision of clinical instructors. Offered spring semester.

ATR 272 First Aid, Safety, and CPR. 2 hours.

Discussion and practice of skills and techniques in the emergency response to injuries and illnesses. Includes emergency assessment, first aid, cardiopulmonary resuscitation for infants, children, and adults; and AED use.

ATR 300 Foundations in Athletic Training. 3 hours.

Prerequisites: Admission to the ATEP.

Corequisites: ATR 310, BSC 215 and NHM 315.

Study and discussion of topics related to the prevention, clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Introduction to the organization and administration of athletic training programs.

ATR 310 Integration of Clinical Skills in Athletic Training I. 1 hour.

Prerequisites: Admission to the ATEP.

Corequisites: ATR 300, BSC 215 and NHM 315.

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers. Offered fall semester.

ATR 357 Clinical Evaluation and Diagnosis I. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, BSC 215, and NHM 315.

Corequisites: ATR 320, BSC 216 and KIN 365.

Three lecture hours and one two-hour laboratory per week. Study of the lower extremity as it relates to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Offered spring semester.

ATR 320 Integration of Clinical Skills in Athletic Training II. 1 hour.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, BSC 215 and NHM 315.

Corequisites: ATR 357, BSC 216 and KIN 365.

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the lower extremity. Clinical experiences under the direct supervision of BOC Certified Athletic Trainers. Offered spring semester.

ATR 358 Clinical Evaluation and Diagnosis II. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, BSC 215, BSC 216, KIN 365, and NHM 315.

Corequisites: ATR 410, ATR 457 and PH 101.

Three lecture hours and one two-hour laboratory per week. Study of the upper extremity as it relates to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Offered fall semester.

ATR 453 Applied Clinical and Research Skills in Athletic Training. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 410, ATR 420, ATR 456, ATR 457, KIN 365, KIN 492, BSC 215, BSC 216, PH 101, and NHM 315.

Acquisition, evaluation, synthesis and application of clinical, research and teaching skills in athletic training with an emphasis on clinical question development and the incorporation of evidence based practice in resolving clinical questions and developing and implementing patient care plans. Clinical experiences under the direct supervision of allied medical and medical professionals in a range of patient care settings. Offered summer semester.

ATR 360 Clinical Evaluation and Diagnosis III. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 410, ATR 457, KIN 365, BSC 215, BSC 216, PH 101, and NHM 315.

Corequisites: ATR 420, ATR 456 and KIN 492.

The study of the head, neck, face, abdomen, thorax, and thoracic and lumbar spines as they relate to the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses. Discussion of issues related to research. Offered spring semester.

ATR 410 Integration of Clinical Skills in Athletic Training III. 1 hour.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, BSC 215, BSC 216, KIN 365 and NHM 315.

Corequisites: ATR 358, ATR 457 and PH 101.

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the upper extremity and the use of therapeutic modalities in the comprehensive patient care plan. Clinical experiences under the direct supervision of clinical instructors. Offered fall semester.

ATR 420 Integration of Clinical Skills in Athletic Training IV. 1 hour.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 410, ATR 457, BSC 215, BSC 216, KIN 365, NHM 315 and PH 101.

Corequisites: ATR 360, ATR 456 and KIN 492.

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on the head, neck, face, thorax, abdomen and spine and the use of therapeutic exercises in the comprehensive patient care plan. Clinical experiences under the direct supervision of clinical instructors. Offered spring semester.

ATR 430 Integration of Clinical Skills in Athletic Training V. 1 hour.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 360, ATR 410, ATR 420, ATR 453, ATR 456, ATR 457, BSC 215, BSC 216, KIN 365, KIN 492, NHM 315 and PH 101.

Corequisites: ATR 454 and ATR 455.

Acquisition, evaluation, synthesis and application of clinical skills in the prevention; clinical evaluation and diagnosis; immediate care and treatment; and rehabilitation and reconditioning of injuries and illnesses with an emphasis on acute and chronic medical conditions and their pharmacologic management within a well-organized athletic training program. Clinical experiences under the direct supervision of clinical instructors. Offered fall semester.

ATR 454 Organization and Administration in Athletic Training.

3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 453, ATR 360, ATR 410, ATR 420, ATR 456, ATR 457, KIN 365, KIN 492, BSC 215, BSC 216, PH 101, and NHM 315.

Corequisites: ATR 430 and ATR 455.

Current theories, methods and techniques in the organization and administration of athletic training programs.

ATR 455 Pharmacology and Pathology in Athletic Training. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 410, ATR 420, ATR 453, ATR 456, ATR 457, KIN 365, KIN 492, BSC 215, BSC 216, PH 101, and NHM 315.

Corequisites: ATR 430 and ATR 454.

The study of acute and chronic illnesses and their response to, and impact on, physical activity. Discussion of pharmacological agents. Offered fall semester.

ATR 456 Rehabilitation Techniques in Athletic Training. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 357, ATR 358, ATR 410, ATR 457, KIN 365, BSC 215, BSC 216, PH 101, and NHM 315.

Corequisites: ATR 360, ATR 420, and KIN 492.

Three lecture hours and one two-hour laboratory per week. Methods, theories, and techniques in the rehabilitation and reconditioning of injuries. The evaluation of injuries relative to rehabilitation. Offered spring semester.

ATR 457 Therapeutic Modalities in Athletic Training. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR 358, KIN 365, BSC 215, BSC 216, and NHM 315.

Corequisites: ATR 358, ATR 410, and PH 101.

Three lecture hours and one two-hour laboratory per week. Current theories, methods, and techniques in the application of therapeutic modalities during the treatment, rehabilitation, and reconditioning of injuries. The evaluation of injuries relative to therapeutic modalities. Offered fall semester.

ATR 458 Seminar in Athletic Training. 3 hours.

Prerequisites: Admission to the ATEP, ATR 300, ATR 310, ATR 320, ATR

357, ATR 358, ATR 410, ATR 420, ATR 430, ATR 453, ATR 454, ATR 455, ATR 456, ATR 457, KIN 365, KIN 492, BSC 215, BSC 216, PH 101, and NHM 315.

Discussion of issues in research in athletic training. Review of specific competencies in athletic training. Offered spring semester.

ATR 488 Internship in Athletic Training. 1 to 12 hours.

Directed internship in a health care facility.

ATR 496 Independent Study in Athletic Training. 1 to 12 hours.

Individualized didactic and clinical experiences focusing on specific domains within the scope of practice of athletic training.

BIOLOGICAL SCIENCES (BSC)

Office: 1324 Science and Engineering Complex

BSC 108 Introductory Biology for Non-Majors I. 4 hours.

Lecture and laboratory. Not open to biology majors or minors, pre-health professions students, or students with credit for BSC 114:115 and BSC 116:117 (or the honors equivalents, BSC 118 and BSC 120). Survey of the basic principles of cellular biology, genetics, plant and animal diversity, and evolution. Usually offered fall, spring, and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 109 Introductory Biology for Non-Majors II. 4 hours.

Lecture and laboratory. Not open to biology majors or minors, or to pre-health professions students. Study of the physiology of living organisms, with emphasis on the physiology of humans. Includes an overview of general ecology and animal behavior. Usually offered fall, spring, and summer. BSC 108 and BSC 109 may be taken in either order.

BSC 114 Principles of Biology I. 3 hours.

For biology majors, biology minors, and pre-health professions students. Study of general biological principles, including the chemical basis of life; cellular biology, including cell structure and metabolism, genetics, evolution; and a survey of simple organisms, including viruses, bacteria, protista, and fungi. Offered fall, spring, and summer. NOTE: A student must take both BSC 114 and BSC 115 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 115 Biology I Laboratory. 1 hour.

Prerequisite or corequisite: BSC 114.

NOTE: A student must take both BSC 114 and BSC 115 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 116 Principles of Biology II. 3 hours.

Prerequisite: BSC 114 or BSC 118.

For biology majors, biology minors, and pre-health professions students. Study of the structure, function, and ecology of organisms, including bryophytes, vascular plants, invertebrate animals, and vertebrate animals. Offered fall, spring, and summer. NOTE: A student must take both BSC 116 and BSC 117 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 117 Biology II Laboratory. 1 hour.

Prerequisite: BSC 115.

NOTE: A student must take both BSC 116 and BSC 117 in order to use either one of the courses to satisfy a portion of the natural science (N) requirement of the University Core Curriculum.

BSC 118 Honors General Biology I. 4 hours.

Prerequisites: Membership in the University Honors Program (or equivalent placement scores) or 3.3 college/university grade point average.

Prerequisite or corequisite: CH 101 or CH 117 (or high-school chemistry).

Lecture, discussion period, and laboratory. Thorough study of general biological principles, including the chemical basis of life, cellular biology, genetics, evolution, and a survey of prokaryotic organisms.

BSC 120 Honors General Biology II. 4 hours.

Prerequisites: Membership in the University Honors Program (or equivalent placement scores) or 3.3 college/university grade point average; and BSC 118 or BSC 114.

Prerequisite or corequisite: CH 101 or CH 117 (or high-school chemistry). Lecture, discussion period, and laboratory. Thorough study of the structure, function, physiology, and ecology of organisms, including higher and lower plants and vertebrates and invertebrate animals.

A maximum of 12 hours of 100-level biology courses (BSC 108, BSC 109, BSC 114:115, BSC 116:117, BSC 118, BSC 120) may be applied to degree requirements.

BSC 215 Human Anatomy and Physiology I. 4 hours.

Prerequisite: One semester of biology (BSC 108, BSC 109, BSC 114:115, BSC 116:117, BSC 118, or BSC 120) or two semesters of chemistry (CH 101 and CH 102, CH 104 and CH 105, or CH 117 and CH 118) or permission of the instructor.

Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes cellular aspects; tissues and skin; the skeletal, muscular, nervous and endocrine systems; and the special senses of sight, hearing, taste, and smell.

BSC 216 Human Anatomy and Physiology II. 4 hours.

Prerequisite: One semester of biology (BSC 108, BSC 109, BSC 114:115, BSC 116:117, BSC 118, or BSC 120) or two semesters of chemistry (CH 101 and CH 102, CH 104 and CH 105, or CH 117 and CH 118) or permission of the instructor.

Lecture, laboratory, and laboratory lecture. Integrated survey of human anatomy and physiology that includes the respiratory, circulatory, digestive, urinary, and reproductive systems.

BSC 242 Microbiology and Man. 4 hours.

Prerequisites: One semester of biology and two semesters of chemistry. For students majoring in nursing, education, and human environmental sciences. Lecture and laboratory. Introduction to microbiology with an emphasis on the relationships between man and protozoa, bacteria, viruses, and fungi. NOTE: Credit will not be granted for both BSC 242 and BSC 310.

BSC 300 Cell Biology. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, and CH 101 or CH 117, and CH 102 or CH 118.

The course is designed to provide an understanding of the molecular basis of cell function. Topics include metabolism, gene control, cell membranes, and cell-to-cell signaling.

BSC 303 Field Zoology. 3 hours.

Prerequisites: BSC 116:117 or BSC 120.

A field-based course with lecture and lab combined. A survey of the taxonomy, ecology, and identification of local biota. Offered irregularly.

BSC 305 Biology, Environment, and Resource Development. 3 hours.

Prerequisite: Freshman biology course or high-school biology.

Introduction to the biological implications of human population growth and activity.

BSC 310 Microbiology. 5 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and CH 231; or permission of the instructor.

Lecture and laboratory. Survey course on microorganisms, including protozoa, bacteria, viruses, fungi, and algae. Credit will not be granted for both BSC 310 and BSC 242.

BSC 311 General Bacteriology and Bacterial Physiology. 3 hours.

Prerequisites: BSC 310 and CH 232, or permission of the instructor.

Fundamental course in bacteriology with emphasis on bacterial morphology, physiology, nutrition, and genetics.

BSC 313 General Bacteriology Laboratory. 3 hours.

Prerequisite or corequisite: BSC 311.

Lecture and laboratory. Course presents methods for the isolation, microscopic observation, enumeration, and determination of the biochemical characteristics of bacteria.

BSC 315 Genetics. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, and CH 101:102 or CH 117 and CH 118.

Study of transmission and function of genes, gene organization, regulation of prokaryotic and eukaryotic genes, and applications of genetics. NOTE: Credit will not be granted for both BSC 309 and BSC 315.

BSC 320 Freshwater Studies (same as GY 320 and GEO 320). 4 hours.

Prerequisites: BSC 114:115 (or BSC 118) and either BSC 116:117, BSC 120, GEO 101, or GY 101.

Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.

BSC 345 Economic Botany. 3 hours.

A consideration of plants that are of economic significance to humans in both primitive and modern cultures. Offered irregularly.

BSC 350 Introduction to Inquiry. 3 hours.

Prerequisites: BSC 114:115, BSC 116:117 (or BSC 118 and BSC 120), and CH 101 and CH 102 (or CH 117 and CH 118).

A discovery-based laboratory/recitation experience in which teams of students use a variety of sources to explore real-world problems focused on a unifying theme and plan experiments to test hypotheses. Utilizing skills in ecological and molecular techniques, experiments will be conducted to address the problem, and results will be presented as a scientific report and oral presentation.

BSC 360 Plant Biology. 4 hours.

Prerequisites: BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120, or permission of the instructor.

Lecture and laboratory. Introduction to the biology of embryophytes with emphasis on their development, evolution, and ecology.

BSC 371 Biology of the Lower Plants. 4 hours.

Prerequisites: BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120.

Lecture and laboratory.

BSC 373 Vertebrate Zoology. 4 hours.

Prerequisites: BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120.

Lecture and laboratory. Introductory course in the study of vertebrate zoology. Subjects included are principles of systematics and nomenclature, a survey of vertebrate taxa, the species concept, analysis of taxonomic characters, and an introduction to zoogeography and behavior.

BSC 376 Invertebrate Zoology. 4 hours.

Prerequisites: BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120.

Lecture and laboratory. The classification, morphology, evolution, and ecology of invertebrate animals.

BSC 385 General Ecology. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and MATH 112.

A study of the general principles of ecology, covering evolution, autoecology, energetics, nutrient cycling, population dynamics, competition, predation, and community analysis.

BSC 386 General Ecology Laboratory. 2 hours.

Prerequisite or corequisite: BSC 385.

Offered irregularly.

BSC 390 Honors Thesis Research in Biological Sciences. 1 to 4 hours.

Prerequisite: Acceptance in the Biological Sciences Honors Program.

Individual research conducted under the direction of an advisor and reported in an acceptable thesis. May be repeated over two to four semesters for a maximum 8 hours.

BSC 391 Tutorial in Biological Sciences. 1 to 2 hours.

Prerequisites: Junior or senior standing and permission of the instructor prior to registration.

Survey of the literature relating to a topic approved by the supervising faculty member; not to include laboratory or field research. A formal paper and/or examination is required. May be taken for one credit hour in each of two consecutive semesters, or for one or two credit hours in any one semester. Offered according to demand.

BSC 393 Biology Outreach. 2 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and permission of the instructor.

Service learning. Survey of literature, design of active learning projects and teaching science concepts to elementary students to encourage and enrich young children's interest in science.

BSC 396 Resident Study at an Approved Biological Station.

1 to 6 hours.

Prerequisite: Written approval from the department office prior to registration. Credit awarded is determined by the extent of the student's participation but may not exceed 6 hours.

BSC 398 Undergraduate Research in Biological Sciences.

1 to 4 hours.

Prerequisites: Permission of a supervising faculty member and the department chairperson; written synopsis of proposed project and method of attack.

Independent research or research participation. A maximum of 4 hours credit for BSC 398 may be applied to the requirements of the biology and microbiology majors; an additional 4 hours may be taken as elective credit and applied to the 120-hour requirement.

BSC 399 Presentation of Undergraduate Research. 2 hours.

Prerequisite: BSC 398 (2 semesters).

Exploration of the process of presenting research results in different written formats including: abstract, poster, and full journal article. How the needs for clear presentation and response to peer review can inform the experimental process will also be covered.

BSC 400 Vertebrate Functional Morphology. 4 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, BSC 300, and junior standing or permission of the instructor.

Recommended for pre-health professions students. Lecture and laboratory. The comparative anatomy of the vertebrates with emphasis on functional features of several vertebrate species. Laboratory work deals mainly with identifying anatomical features of several vertebrate species.

BSC 403:404 Introduction to Biological Instruction. 2 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior or senior standing, formal application, and a satisfactory interview.

BSC 407 Honors Seminar in Biological Sciences. 1 hour.

Prerequisite: Admission to the Biological Sciences Honors Program.

Seminar and discussion. In the first semester, students present seminars based on the current literature. In the second semester, students present seminars derived from their honors theses. A maximum of 4 hours of credit for BSC 407 may be applied to the requirements of the biology or microbiology major. Offered according to demand.

BSC 409 Hospital Apprenticeship I. 2 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and senior premedical student standing.

A one-semester apprenticeship at Northport Hospital–DCH. Students are assigned to or may select departments in which they will be given special tasks that contribute to the operation of these departments. This course is open only to senior premedical students. It does not count as applicable hours for the biology major or minor.

BSC 410 Hospital Apprenticeship II. 2 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and senior premedical student standing.

A continuation of BSC 409. A one-semester apprenticeship at Northport Hospital–DCH. Students are assigned to or may select departments in which they will be given special tasks that contribute to the operation of these departments. This course is open only to senior premedical students. It does not count as applicable hours for the biology major or minor.

BSC 412 Limnology. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120.

Study of freshwater environments and the organisms that live in lakes, ponds, and streams. May be taken with BSC 413 or separately.

BSC 413 Limnology Laboratory. 2 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120.

An optional laboratory accompanying BSC 412.

BSC 414 Dendrology. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120.

Lecture and laboratory. Identification, classification, characteristics, and distribution of the principal forest trees of the United States. Two weekend field trips are required. Offered in alternate years.

BSC 415 Wetland Plant Ecology. 3 hours.

Prerequisites: BSC 385 or permission of the instructor.

An in-depth analysis of wetland ecology emphasizing the biology and ecology of vascular plants, including plant adaptations to anaerobic soils, reproductive adaptations, habitat and plant zonation, and the role of plants in ecosystem function. Offered in alternate years.

BSC 416 Aquatic Vascular Plants. 4 hours.

Prerequisite: BSC 434.

Lecture and laboratory period. Identification, classification, characteristics, and distribution of aquatic plant species. One weekend field trip is required.

Offered in alternate years.

BSC 417 Environmental Modeling. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, CH 101 or CH 117, CH 102 or CH 118, and MATH 125 or MATH 145 (or equivalents). An integrated study of quantitative principles and computer-based solution techniques important for understanding environmental systems and for environmental problem solving.

BSC 420 Principles of Systematics. 3 hours.

Prerequisites: BSC 483 and BSC 360, BSC 373, or BSC 376 or permission of the instructor.

Introduction to the principles, methods, and applications of systematics to analysis of morphological and molecular data. Includes introduction to biological classifications and nomenclature.

BSC 424 Human Physiology. 3 hours.

Prerequisite: BSC 300.

Topics covered are the digestive, nervous, reproductive, immune, muscular, blood, cardiovascular, respiratory, urinary, and body-fluid systems. May be taken with BSC 425 or separately.

BSC 425 Human Physiology Laboratory. 2 hours.

Prerequisite or corequisite: BSC 424.

Hands-on experience for understanding the principles and mechanisms of physiological processes of the human body. Major emphases on organ system performance, whole-body metabolism, and energetics.

BSC 428 Biology of Fishes. 4 hours.

Prerequisites: BSC 373 and BSC 385 or permission of the instructor.

Lecture and laboratory. Survey of the structure, function, ecology, and classification of fishes. Offered in alternate years.

BSC 431 Pathogenic Microbiology. 3 hours.

Prerequisite: BSC 310 or permission of the instructor.

Study of microorganisms related to health and disease with emphasis on molecular mechanism of pathogenesis. Offered in alternate years.

BSC 432 Pathogenic Microbiology Laboratory. 3 hours.

Prerequisite or corequisite: BSC 431 or permission of the instructor.

Practical experience in the isolation, characterization, and identification of pathogenic microorganisms. Offered in alternate years.

BSC 433 Microbial Diversity. 3 hours.

Prerequisites: BSC 310 or permission of the instructor.

In-depth survey of the diversity of microbial life forms. Offered alternative years.

BSC 434 Plant Systematics. 4 hours.

Lecture and laboratory. Characteristics and distribution of the major families of vascular plants as well as practice in the collection and identification of flowering plants. One weekend field trip required. Offered in alternate years.

BSC 435 Immunology. 4 hours.

Prerequisite: BSC 310 or permission of the instructor.

Thorough exploration of various aspects of modern immunology at the molecular and cellular levels.

BSC 436 Immunology Laboratory. 3 hours.

Prerequisite: BSC 435 or permission of the instructor.

Practical experience in modern immunological techniques. Offered in alternate years.

BSC 439 Molecular Biology Laboratory. 3 hours.

Prerequisite: BSC 450 or permission of the instructor.

Students participate in the generation of new knowledge, thus the experiments vary. Techniques taught include agarose gel electrophoresis, cycle sequencing, sequence analysis, plasmid purification, restriction endonuclease digestion, gel purification of DNA, ligation, transformation, primer design, PCR, gene knockouts, protein fusions, and enzyme assays.

BSC 441 Developmental Biology. 3 hours.

Prerequisites: BSC 300 and BSC 315, or permission of the instructor.

The course provides basic information about events in developing animal systems, emphasizing cellular, molecular, and genetic research approaches to the study of development.

BSC 442 Integrated Genomics. 4 hours.

Prerequisite: BSC 300; prerequisite or corequisite: BSC 315.

An advanced discovery-based laboratory course designed to introduce the process of gene discovery and integrate modern genomics techniques and bioinformatic database usage.

BSC 444 General Virology. 3 hours.

Prerequisite: BSC 300 or BSC 310, or permission of the instructor.

A survey of viruses, viral replication, and viral pathogenesis, including bacterial, animal, and plant viruses. The role of viruses in molecular biology is emphasized.

BSC 448 Animal Behavior. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and BSC 300.

This course is designed to provide modern perspectives on the study of animal behavior, pulling from fields as diverse as evolutionary biology, ecology, neurobiology, and economics. Through the course, however, there will be an historical undercurrent which will illustrate the roots of this truly interdisciplinary field.

BSC 449 Endocrinology. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and BSC 300.

A detailed examination of the vertebrate endocrine system that uses a comprehensive approach to explore intricate relationships between the brain, endocrine glands, hormones, and target organs.

BSC 450 Fundamentals of Biochemistry. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and CH 232.

A one-semester survey of protein structure, enzymes, bioenergetics, metabolism and its regulation. Designed for advanced undergraduate students.

BSC 451 Molecular Biology. 3 hours.

Prerequisites: BSC 450 and BSC 311 or BSC 315 or CH 462.

A one-semester survey of molecular biology that emphasizes gene structure, function, and regulation of expression. Offered spring semester.

BSC 456 Microbial Ecology. 3 hours.

Prerequisite: BSC 310 or permission of the instructor.

Study of microorganisms in the environment, with emphasis on their roles in energy transformations, biogeochemical cycles, and biotic interactions.

BSC 457 Microbial Ecology Laboratory. 2 hours.

Prerequisite: BSC 310 or permission of the instructor.

A laboratory course that provides training in techniques for examination of the abundance, diversity, and activity of microorganisms in natural water, soil, and sediment environments. Offered alternate years.

BSC 460 Human Developmental Biology. 4 hours.

Prerequisites: BSC 300 and BSC 400 are recommended.

Lecture and laboratory. Development of the human embryo and fetus, including molecular, physiological, and structural aspects of morphogenesis, and functional development. Offered in alternate years.

BSC 464 Biology of Algae. 4 hours.

Prerequisites: BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120.

Lecture and laboratory. Freshwater and marine algae—their structure, development, taxonomy, and distribution.

BSC 465 Principles of Toxicology. 3 hours.

Prerequisite: BSC 300.

The study of adverse effects of chemicals on living organisms and methods for predicting the likelihood of such effects, including descriptive, mechanistic, and regulatory aspects.

BSC 469 Histology of Vertebrates. 4 hours.

Prerequisites: BSC 114:115 or BSC 118 and BSC 116:117 or BSC 120.

Lecture and laboratory. Identification of tissue types and components, histogenesis and function of tissues.

BSC 471 Plant Physiology. 3 hours.

Prerequisite: BSC 300.

A general survey for upper-level undergraduate students covering all aspects of plant physiology including plant transport, translocation of sugars in plants, plant biochemistry, plant metabolism, plant growth and development, photosynthesis, nitrogen fixation, flowering and plant hormones. The course will consist of lectures, in-class experiments, group discussions, presentations and other activities relating to course material.

BSC 472 Mycology. 4 hours.

Prerequisite: BSC 310 or permission of the instructor.

Lecture and laboratory. Introduction to the fungi and their biology, including aspects of their structure and function, taxonomy, genetics, and ecology. Offered in alternate years.

BSC 475 General Entomology. 4 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120.

Lecture and laboratory. Survey of the structure, function, classification, and habits of insects.

BSC 476 Aquatic Insects. 4 hours.

Prerequisite: BSC 475 or permission of the instructor.

Lecture and laboratory. Survey of aquatic insects with emphasis on their identification, life histories, and ecology. Offered in alternate years.

BSC 480 Plant Ecology. 3 hours.

Prerequisite: BSC 385.

Lecture. Examination of the ecology of plants at different levels: individual, population, and community.

BSC 482 Conservation Biology. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and junior standing or permission of instructor.

A thorough examination of the principles of conservation biology.

BSC 483 Evolution. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and BSC 315.

Thorough investigation of evolution, including population genetics, molecular evolution, adaptation, and speciation. Offered in the spring semester.

BSC 484 Aquatic Biology Seminar. 1 hour.

Prerequisites: BSC 320, BSC 385, and BSC 412 or BSC 490.

Review and discussion of current topics in aquatic biology.

BSC 487 Biogeography. 3 hours.

Prerequisite: BSC 385 or permission of the instructor.

Examination of the ecological and historical factors influencing the geographic distribution of plants and animals. Offered alternate years.

BSC 489 Forest Ecology and Vegetation Analysis (same as GY 489).

4 hours.

Prerequisites: BSC 116:117, GY 101, and GY 102.

Three hours lecture and required field work. Study of the nature of forest communities and the interrelationship of organisms that compose them.

BSC 490 Stream Ecology. 4 hours.

Prerequisite: BSC 385.

Lecture and laboratory. Thorough study of the structural (physical and biological) and functional attributes (energy flow, nutrient cycling, community structure) characteristic of stream and river ecosystems. Offered in alternate years.

BSC 493 Cell Cycle Regulation. 3 hours.

Prerequisites: BSC 300, BSC 315, and BSC 441.

In-depth review and discussion of recent scientific research literature dealing with mechanisms of eukaryotic cell cycle regulation and their significance in human cancers. Provides a foundation for further studies in the cell cycle field, which impacts many areas of cell, molecular, and developmental biology.

BSC 494 Signal Transduction in Neurobiology. 3 hours.

Prerequisites: BSC 300, BSC 315, and BSC 441.

An advanced undergraduate seminar on current topics related to signal transduction as it pertains to the molecular basis of neurobiology and development. Offered in alternate years.

BSC 495 Advanced Cell Biology. 3 hours.

Prerequisite: BSC 300 or permission of the instructor.

The course presents the structures, functions, and relationships of cellular organelles and the cytoskeleton.

BSC 496 Bioremediation. 3 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and permission of the instructor.

Study of the biological degradation of toxic chemicals in the environment.

BSC 497 Special Topics. 1 to 4 hours.

Prerequisites: BSC 114:115 or BSC 118, BSC 116:117 or BSC 120, and permission of the instructor.

A biological sciences topic not covered in other courses. The credit hours and format are determined as appropriate to the topic, and a course title is added to the schedule of classes. Offered according to demand.

BLOUNT UNDERGRADUATE INITIATIVE (BUI)

Office: 202 Oliver-Barnard Hall

BUI 100 Blount Undergraduate Initiative Convocation. 1 hour, pass/fail.

Prerequisite: Admission to the Blount Undergraduate Initiative.

Corequisite: BUI 101 or BUI 102.

Experiences to extend and complement the Blount Undergraduate Initiative foundation courses. May be repeated once for credit.

BUI 101 Blount Undergraduate Initiative Foundation: Origins. 3 hours.

Prerequisite: Admission to the Blount Undergraduate Initiative.

Corequisite: BUI 100.

A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on origins of the natural world, human culture, and human understanding.

BUI 102 Blount Undergraduate Initiative Foundation: Possibilities.

3 hours.

Prerequisite: BUI 101.

Corequisite: BUI 100.

A text-centered exploration of major questions that integrate liberal arts education and form the basis of the Blount Undergraduate Initiative. Emphasis is on significant issues in the discourse on human possibilities.

BUI 301 Thematic Seminar. 3 hours.

Prerequisites: BUI 101 and BUI 102.

A text-centered study of one of the core problems that define the history of ideas in the liberal arts. May be repeated for a maximum of 12 hours.

BUI 401 Capstone Seminar. 3 hours.

An examination of the “worldviews” of various epochs and the completion of a senior project. Students learn how individual beliefs about what is *actual*, what is *possible*, and what is *desirable* can be combined into a single unified understanding of the world and how such a worldview has implications for what we should do and how we should live.

BOOK ARTS (BA)

Office: 513 Main Library

BA 441 Papermaking. 3 hours.

Provides hands-on experience in the fundamentals of making both Western and oriental paper using a variety of fibers. The objective is to produce a large number of reference samples rather than to mass-produce sheets of paper or one-of-a-kind paperworks.

BA 490 Book Design and Printing. 3 hours.

Studies the theoretical and practical aspects of book design and production. Emphasis is on the aesthetic principles of bookmaking, the preparation of layouts, and the selection of typefaces, papers, and binding materials.

CAPSTONE INTERNATIONAL PROGRAMS (CIP)

Dr. Jane Stanfield

Assistant Vice President for

International Education and Global Outreach

Office: 135 B.B. Comer Hall

CIP 200 Introduction to Global Studies. 3 hours.

Designed as the first course to be taken in the Global Studies Certificate Program (15 hours) to introduce the undergraduate student to the cultural, economic, physical, and political aspects of being a world citizen in the 21st century. The emphasis of this course is the contemporary rather than the historical and will set the philosophy for the students' approach to the entire Global Studies Certificate curriculum, both core and emphasis-area courses.

CIP 401–412 Exchange (various). (12-0) 12 hours.

CIP 413 Independent Overseas Study. (6-0) 6 hours.

CHEMICAL AND BIOLOGICAL ENGINEERING (CHE) (CHBE)

Professor Viola Acoff
Department Head

Office: 116-E Houser Hall

CHE 125 Introduction to Chemical Engineering. 1 hour.

An introduction to the chemical engineering profession, its history, and its career-enabling potential. The course contains selected topics, plant visits, and alumni seminars covering the full range of career opportunities from emerging areas (nanotechnology, biochemical, multifunctional materials) to those found in the more traditional positions within the chemical, petrochemical, and petroleum industries. Offered fall semester only.

CHE 225 Chemical Honors Forum. 1 hour.

Prerequisite: Member of the Chemical Engineering Honors Program.

Corequisite: Sophomore or higher standing.

Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 254 Chemical Engineering Calculations. 4 hours.

Prerequisites: CH 101 and MATH 125.

Corequisite: CHE 125.

Study of physical and chemical processes and chemical reactions; material and energy balance calculations for single-phase and multiphase systems; simultaneous energy and material balances.

CHE 255 Chemical Engineering Thermodynamics. 4 hours.

Prerequisites: CHE 254 and MATH 126.

Chemical calculations using the first and second laws of thermodynamics, including chemical and phase equilibria, multiphase reacting systems, steady-state and non-steady-state material and energy balances. Computer proficiency is required for a passing grade in this course.

CHE 304 Fluid Flow Operations. 3 hours.

Prerequisite: MATH 126.

Corequisite: CHE 254 or permission of the instructor.

Equations of momentum and energy transport and their applications to the analysis of fluid process behavior, filtration, fluidization, and metering of fluids. Offered fall semester only.

CHE 305 Separation Processes. 3 hours.

Prerequisite: CHE 255.

Unified approach to the basic calculations and fundamental concepts involved in the design of equilibrium-stage separations processes and continuous contacting equipment. Computer proficiency is required for a passing grade in this course. Offered spring semester only.

CHE 306 Heat Transfer Operations. 3 hours.

Prerequisite: CHE 254.

Corequisite: CHE 304.

Study of heat transfer and its application in the design of specific processes and process equipment. Offered fall semester only.

CHE 319 Basic Chemical Engineering Laboratory. 2 hours.

Prerequisites: CHE 255.

Basic chemical engineering measurements and calculations: temperature, pressure, thermal transport rates, fluid flow rates and energy losses, material properties, and specifications. Offered spring semester only.

CHE 320 Operations Laboratory. 6 hours.

Prerequisite: CHE 319, CHE 305 and CHE 306.

Operations of chemical engineering. Course includes problems and reports

based on performance tests; writing proficiency is required for a passing grade. Offered summer semester only.

CHE 324 Transport Phenomena. 3 hours.

Corequisites: CHE 255 and MATH 238, or permission of the instructor. Development of the conservation equations for mass, momentum, and energy, with application to steady-state and transient chemical processes. Computer proficiency is required for a passing grade in this course. Offered fall semester only.

CHE 325 Chemical Honors Forum. 1 hour.

Prerequisite: Member of the Chemical Engineering Honors Program.

Corequisite: Sophomore or higher standing.

Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 354 Chemical Reactor Design. 3 hours.

Prerequisites: CHE 255 and MATH 238.

Reaction rate equations and comparisons with experimental data; use of rate information for the design of chemical reactors. Offered spring semester only.

CHE 412 Polymer Materials Engineering. 3 hours.

Prerequisites: CH 102 and junior standing.

Introduction to the manufacture, processing, and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers.

CHE 425 Chemical Honors Forum. 1 hour.

Prerequisite: Member of the Chemical Engineering Honors Program.

Corequisite: Sophomore or higher standing.

Designed to expose students to the rich array of resources, ideas, and experiences of chemical engineering. Emphasis and content based on faculty member's area of expertise.

CHE 438 Electronic Materials. 3 hours.

Prerequisite: MATH 238.

Introduction to the unit processes used during the fabrication of computer chips, including silicon oxidation, thin film deposition, photolithography, diffusion, and ion implantation. Quantitative and qualitative analysis is employed. Design of the fabrication sequence complete with process time and temperatures for making solid-state electronic devices. Microelectromechanical systems and the special processing techniques used to manufacture these exciting new devices.

CHE 440 Health & Safety. 3 hours.

Prerequisite: CH 102 and junior standing.

Health & safety in the chemical process industry that will introduce chemical engineering students to the health and safety regulations, and the designs and procedures to meet them in the chemical process. Advanced topics will also be introduced, including current relevant topics such as recent accidents and ways and means of preventing a reoccurrence, advanced models of spills and advanced safety analysis.

CHE 445 Introduction to Biochemical Engineering. 3 hours.

Prerequisite: CH 231.

Study of biological processes, application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth, and metabolic processes.

CHE 481 Chemical Process Design I. 3 hours.

Prerequisite: CHE 255 and senior standing or permission of instructor.

Technical and economic design of chemical processes and plants. Offered fall semester only.

CHE 482 Chemical Process Design II. 3 hours.

Prerequisite: CHE 481.

Optimal design of chemical processes and plants. Writing proficiency is required for a passing grade in this class. Offered spring semester only.

CHE 491 and CHE 492 Special Problems. 1 to 3 hours.

Research combined with practical application and testing. Credit is based on the amount of work undertaken.

CHE 493 Process Dynamics and Control. 3 hours.

Prerequisites: CHE 255 and MATH 238.

Development of model equations that describe the unsteady-state behavior of chemical processes; automatic control design and analysis emphasizing time-domain methods; introduction to digital computer control. Offered fall semester only.

CHE 495 and CHE 496 Undergraduate Honors Seminar. 1 hour each.

Prerequisites: Senior honors student and 3.3 or higher grade point average.

Presentation of research/practical study results before a group of peers (graduate students, other honors students, faculty, and invited guests).

CHE 498 and CHE 499 Honors Special Problems. 1 to 3 hours.

Prerequisites: Junior honors student and 3.3 or higher grade point average.

Credit is based on the amount of work undertaken. Research or practical study in a chemical engineering area, the outcome of which is a definite result presented in a report, paper, or manuscript.

CHE 593 Chemical and Biological Engineering Practicum.

1 to 3 hours.

This course allows graduate students to gain classroom and lab experience under supervised conditions. Tasks may include grading for a selected course, structured lecturing, lab monitoring, and other related pedagogical exercises.

CHE 693 Chemical and Biological Engineering Practicum.

1 to 3 hours.

This course allows graduate students to gain classroom and lab experience under supervised conditions. Tasks may include grading for a selected course, structured lecturing, lab monitoring, and other related pedagogical exercises.

ADVANCED UNDERGRADUATE/ENTRY-LEVEL GRADUATE COURSES

CHE 512 Polymer Materials Engineering. 3 hours.

Prerequisite: CH 102, senior standing, and 3.0 or higher GPA.

Introduction to the manufacture, processing, and applications of organic polymeric materials. This course covers the chemistry of polymer manufacture, the molecular structures of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers.

CHE 525 Polymer Processing and Rheology. 3 hours.

Prerequisite: Senior standing.

Basic and advanced concepts in rheology and polymer processing. Polymer properties and morphology, rheology of non-Newtonian fluids, polymer processing, and polymer processing design.

CHE 535 Chemodynamics. 3 hours.

Prerequisites: CH 102, GES 132, AEM 311 (or CHE 304), or permission of the instructor.

A study of the movement and fate of man-made chemicals in the environment.

CHE 538 Electronic Materials. 3 hours.

Prerequisite: MATH 238.

Introduction to the unit processes used during the fabrication of computer chips, including silicon oxidation, thin film deposition, photolithography, diffusion, and ion implantation. Quantitative and qualitative analysis is employed. Design of the fabrication sequence complete with process time and temperatures for making solid-state electronic devices. Microelectromechanical systems and the special processing techniques used to manufacture these exciting new devices.

CHE 545 Introduction to Biochemical Engineering. 3 hours.

Prerequisite: CH 231.

Study of biological processes, application of chemical engineering skills to areas including enzyme kinetics, fermentation, cell growth, and metabolic processes.

CHEMISTRY (CH)

Office: 2004 Shelby Hall

General Chemistry

CH 101 General Chemistry I. 4 hours.

Prerequisite: Grade of "C-" or higher in MATH 100 or math placement in MATH 112 or higher.

Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 101 and CH 107 or for both CH 101 and CH 117. A survey of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall, spring, and summer semesters.

CH 102 General Chemistry II. 4 hours.

Prerequisite: CH 101 or permission of instructor.

Three lectures and one three-hour laboratory. Degree credit is not awarded for both CH 102 and CH 105 or both CH 102 and CH 108. Continuation of CH 101, with basic inorganic chemistry. Includes a systematic study of the elements and the structures, properties, and reactions of their compounds. Usually offered in the fall, spring, and summer semesters.

CH 104 Introductory Chemistry. 4 hours.

Three lectures and one three-hour laboratory. The course is primarily for students in the Capstone College of Nursing and the College of Human Environmental Sciences; it may not be substituted for CH 101 except with departmental permission. Degree credit is not awarded for both CH 104 and CH 107. An introductory survey of the facts, principles, and theories of chemistry. Usually offered in the fall and summer semesters.

CH 105 Introductory Organic Chemistry. 4 hours.

Prerequisite: CH 101 or CH 104.

Three lectures and one three-hour laboratory. Not open to chemistry majors or minors or to students who have earned credit for CH 102. Degree credit is not awarded for both CH 105 and CH 102 or both CH 105 and CH 108. The course may not be substituted for CH 101 or CH 102. Brief survey of organic and biochemistry. Usually offered in the spring and summer semesters.

CH 107 Introductory Chemistry for Non-Majors I. 4 hours.

Prerequisite or corequisite: MATH 100.

Three lectures and one three-hour laboratory. Survey course to teach basic scientific literacy and chemical principles. Includes environmental chemistry, household chemicals, and other subjects pertinent to non-majors. Not open to students who have earned credit in CH 101, CH 104, or CH 117.

CH 108 Introductory Chemistry for Non-Majors II. 4 hours.

Prerequisite: CH 107.

Three lectures and one three-hour laboratory. Survey course to teach basic scientific literacy and chemical principles. Includes environmental chemistry, household chemicals, and other subjects pertinent to non-majors. Not open to students who have earned credit in CH 102, CH 105, or CH 118.

CH 117 Honors General Chemistry I. 4 hours.

Prerequisites: Membership in the University Honors Program or math placement in MATH 125 or higher. High school chemistry is recommended. Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 101. Degree credit is not awarded for both CH 117 and CH 101 or both CH 117 and CH 107. A comprehensive study of the fundamental facts, principles, and theories of general chemistry. Usually offered in the fall semester.

CH 118 Honors General Chemistry II. 4 hours.

Prerequisite: CH 117.

Three lectures and one three-hour laboratory. Not open to students who have earned credit for CH 102. Degree credit is not awarded for both CH 118 and CH 102, both CH 118 and CH 105, or both CH 118 and CH 108. Continuation of CH 117 with basic inorganic chemistry. Includes a systematic study of the elements and of the structures, properties, and reactions of their compounds. Usually offered in the spring semester.

ANALYTICAL CHEMISTRY

CH 223 Chemical Equilibria and Analyses. 4 hours.

Prerequisite: CH 102 or CH 118.

Two lectures and one three-hour laboratory. Comprehensive course covering classical methods of quantitative analysis as well as an introduction to spectroscopic and chromatographic methods. Usually offered in the fall, spring, and summer semesters.

CH 424 Instrumental Analysis. 4 hours.

Prerequisites: CH 223 and CH 341.

Prerequisite or corequisite: CH 348.

Two lectures and one five-hour laboratory. The course covers the general operating principles of the commonly used analytical instruments with an emphasis on theory. Wherever possible, mathematical interpretations and derivations are given. Usually offered in the spring semester.

BIOCHEMISTRY

CH 461 Biochemistry I. 3 hours.

Prerequisites: CH 223, CH 232, and CH 237.

Three lectures. Survey of the physical and chemical properties of the molecular components and methods of isolating and analyzing them. Usually offered in the fall semester.

CH 462 Biochemistry II. 3 hours.

Prerequisite: CH 461, BSC 300, or permission of instructor.

Three lectures. Survey of the principal pathways of carbon, nitrogen, and energy metabolism and clinical and forensic chemistry. Usually offered in the spring semester.

CH 463 Biochemistry Laboratory. 3 hours.

Prerequisite: CH 461

Corequisite: CH 462.

One lecture and one six-hour laboratory. Biochemical techniques within the structure of a semester-long research project. Topics include protein purification and chromatography, spectroscopy, electrophoresis, kinetics, and DNA manipulation.

INORGANIC CHEMISTRY**CH 402 Structural Methods in Inorganic Chemistry.** 3 hours.

Prerequisite: CH 342 or permission of instructor.

Three lectures. The principles and spectroscopic application of group theory and common inorganic reaction mechanisms. Usually offered in the spring semester.

CH 409 Organometallic Chemistry. 3 hours.

Prerequisite: CH 341 and CH 413

Survey of the typical reactions of organotransition metal complexes with a focus on the fundamental mechanisms of these reactions and the application of organometallic catalysts.

CH 413 Inorganic Chemistry. 4 hours.

Prerequisite: CH 338.

Three lectures and one three-hour laboratory. Survey in areas of coordination, main-group, and organometallic chemistry. Laboratory experiments involve the preparation, purification, and identification of inorganic compounds. Usually offered in the fall semester.

CH 447 Materials Science. 3 hours.

Prerequisite: CH 341.

A systematic overview of the chemical and physical principles underlying modern materials science.

ORGANIC CHEMISTRY**CH 231 Elementary Organic Chemistry I.** 3 hours.

Prerequisite: CH 102 or CH 118.

Three lectures. The course is an introduction to the theory and principles of organic chemistry. Topics include organic structure, syntheses, and analyses. Usually offered in the fall, spring, and summer semesters.

CH 232 Elementary Organic Chemistry II. 3 hours.

Prerequisite: CH 231.

Three lectures. This course is a continuation of CH 231. Usually offered in the fall, spring, and summer semesters.

CH 237 Organic Chemistry Laboratory I. 2 hours.

Prerequisite: CH 231.

Corequisite or prerequisite: CH 232.

A one-hour lecture and five-hour laboratory. Designed for chemistry majors and chemistry minors to take concurrently with CH 232. Usually offered in the fall, spring, and summer sessions.

CH 338 Organic Chemistry Laboratory II. 2 hours.

Prerequisite: CH 232 and CH 237.

A one-hour lecture and five-hour laboratory. The course is designed for chemistry majors. Usually offered in the fall semester.

CH 405 Medicinal Chemistry. 3 hours.

Prerequisites: CH 232 and CH 461 or BSC 300 or consent of instructor.

Fundamental considerations in drug design. Includes lead discovery, target identification and validation, pharmacodynamics, pharmacokinetics and metabolism, and formulations/drug delivery systems. Chemical modifications to improve efficacy and pharmacokinetics will be emphasized.

CH 435 Intermediate Organic Chemistry. 3 hours.

Prerequisites: CH 232 and CH 342.

Three lectures. The course is designed to familiarize the student with mechanistic and synthetic organic chemistry. Usually offered in the fall semester.

CH 437 Spectroscopic Techniques in Organic Chemistry. 3 hours.

Prerequisites: CH 232, CH 338, CH 342, and CH 348.

Three lectures. Thorough training in the identification of organic compounds from the complementary information afforded by four spectroscopic techniques: mass, infrared, nuclear magnetic resonance, and ultraviolet.

PHYSICAL CHEMISTRY**CH 340 Elementary Physical Chemistry.** 3 hours.

Prerequisites: CH 223 and either PH 102, PH 106, or PH 126; MATH 125 or MATH 145 is recommended.

Three lectures. This course is designed for students in the pre-health professional degree or pursuing the chemistry minor and is a study of the application of physical chemical concepts in biological systems. It is a general course not requiring extensive mathematical preparation. Usually offered in the fall semester.

CH 341 Physical Chemistry I. 3 hours.

Prerequisites: CH 223, PH 106 or PH 126, and MATH 126 or MATH 146.

Corequisite: MATH 227 or MATH 247.

Three lectures. The course is designed for chemistry majors and is a study of the structure and properties of matter with emphasis on theoretical principles and their mathematical interpretation. Usually offered in the fall semester.

CH 342 Physical Chemistry II. 3 hours.

Prerequisite: CH 341.

Three lectures. The course is designed for chemistry majors. Continuation of CH 341. Usually offered in the spring semester.

CH 343 Elementary Physical Chemistry Laboratory. 1 hour.

Corequisite: CH 340.

One three-hour laboratory. The course is designed to be taken concurrently with CH 340. Usually offered in the fall semester.

CH 348 Physical Chemistry Laboratory. 2 hours.

Prerequisite: CH 341.

Corequisite: CH 342.

6 hours of laboratory. The course is designed to be taken concurrently with CH 342. Usually offered in the spring semester.

CH 449 Atomic and Molecular Structures. 3 hours.

Prerequisites: CH 338, CH 342, and CH 348.

Three lectures. Introduction to quantum mechanics and statistical thermodynamics. Usually offered in the fall semester.

MISCELLANEOUS

A maximum of 3 hours of the 12-hour residency requirement for the chemistry major may be met with research credits.

CH 396:398:399 Undergraduate Research. 1 to 3 hours per course.

3 hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. CH 396 is offered in the fall, CH 398 is offered in the spring, and CH 399 is offered in the summer.

CH 410 Scientific Glassblowing. 3 hours.

The course introduces students to the fundamentals of scientific glassblowing through hands-on training. Usually offered during Interim.

CH 491:492:493:494 Honors Research Seminars. 1 hour per course.

Prerequisite: Junior standing.

The course is designed for students in the Chemistry Department Honors Program. CH 491 and CH 493 are offered in the fall semester; CH 492 and CH 494 are offered in the spring semester.

CH 497:498:499 Introduction to Research. 1 to 3 hours per course.

Prerequisites: Junior standing, CH 232:338, CH 342:348, and permission of the department chairperson.

Three hours laboratory per credit hour. The student works on a research project under the direction of a chemistry faculty member. A final research report is required. CH 497 is offered in the fall; CH 498 is offered in the spring; and CH 499 is offered in the summer.

CHINESE (CHI)

Office: 200-D B.B. Comer Hall

CHI 101 Elementary Chinese I. 4 hours.

Contemporary National Language (Mandarin)—speaking, reading, and writing. The class meets five hours per week.

CHI 102 Elementary Chinese II. 4 hours.

Prerequisite: CHI 101 or consent of instructor.

This is a continuation of Chinese language on the elementary level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension.

CHI 201 Intermediate Chinese I. 3 hours.

Prerequisite: CHI 102 or consent of instructor.

This is a continuation of Chinese language on the intermediate level. Course goals include stress on reading and writing Chinese and a continuation of speaking with listening comprehension. Offered in the fall semester.

CHI 202 Intermediate Chinese II. 3 hours.

Prerequisite: CHI 201 or consent of instructor.

This is the second semester of intermediate Chinese. Offered in the spring semester.

CHI 301 Advanced Chinese. 3 hours.

Prerequisite: CHI 202.

Study of contemporary Chinese language and literature. Offered according to demand.

CHI 302 Advanced Chinese. 3 hours.

Prerequisite: CHI 202.

Study of contemporary Chinese language and literature. Offered according to demand.

CHI 350 Traditional Chinese Literature in Translation (same as WL 350). 3 hours.

Introduction to Chinese literature from the earliest times to the 20th century. No knowledge of Chinese is required.

CHI 351 Modern Chinese Literature in Translation (same as WL 351). 3 hours.

Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

CHI 353 Chinese Conversation and Composition. 1 to 4 hours.

Prerequisite: CHI 202.

Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.

CHI 354 Chinese Conversation and Composition. 1 to 4 hours.

Prerequisite: CHI 202.

Oral drills, pronunciation exercises, simple oral reports, calligraphic exercises, and composition of letters and reports.

CHI 401 Literary Chinese Language. 3 hours.

Prerequisite: CHI 202.

Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.

CHI 402 Literary Chinese Language. 3 hours.

Prerequisite: CHI 202.

Study of classical Chinese, including dictionary, reference works, and research aids. Offered according to demand.

CIVIL, CONSTRUCTION, AND ENVIRONMENTAL ENGINEERING (CE)

Professor Kenneth Fridley
Department Head

Office: 260 H.M. Comer Hall (MIB)

CE 121 Introduction to Civil, Construction and Environmental Engineering. (1) 1 hour.

Introduces the student to the areas of professional civil and environmental engineering practice, with exposure to faculty members specializing in each area, solving typical problems in each professional area, learning of the activities of service organizations, and the responsibilities of professional practice.

CE 220 Infrastructure in the Environment. (3-0) 3 hours.

Permitting, environmental impact statements, and other environmental issues associated with human activities and engineering projects.

CE 260 Civil and Construction Surveying. (2) 2 hours.

Prerequisite: DR 133 and MATH 112.

Precise measurement of lengths, angles, areas, and elevations in geodetic systems; computation of construction control, including highway alignment and land areas.

CE 262 Civil, and Construction Engineering Materials. (2) 2 hours.

Prerequisite: AEM 201

Corequisite: AEM 250

Introduction to the engineering properties of steel, wood, aggregate, concrete and asphalt, including testing procedures and interpretation of results.

CE 320 Introduction to Environmental Engineering. (W) (3) 3 hours.

Prerequisite: CH 101

Corequisite: MA 238.

Introduction to the scientific and engineering principles needed to analyze and solve environmental engineering problems.

CE 331 Introduction to Structural Engineering. (C) (3) 3 hours.

Prerequisite: AEM 250; AEM 264 and CE 262.

Analysis of the structural response of civil engineering structures to typical loads using both hand-calculation methods and computer analysis programs.

CE 340 Geotechnical Engineering I. (3-3) 4 hours.

Prerequisites: AEM 250, and CE 262.

Static and dynamic interaction of soil and water; theories of stress distribution, consolidation, strength, and failures; stability of soil structures.

CE 350. Introduction to Transportation Engineering. (3-0) 3 hours.

Prerequisite: CE 260.

Introduction to highway geometric design, drainage, traffic-control devices, pavements, economic analysis, and construction.

CE 366 Introduction to Construction Engineering. (3-0) 3 hours.

Prerequisite: CE 262.

Engineering economics applied to problems in construction. Topics include the time value of money, equipment costs and selection, and estimating construction costs from plans and specifications.

CE 378 Water Resources Engineering. (3) 3 hours.

Prerequisites: AEM 264, GES 132 and AEM 311.

Mechanics of steady and unsteady flow in closed and open conduits, hydrology; water supply and wastewater disposal.

CE 401 Civil Engineering Project – Site Development. (C & W) (1-3) 4 hours.

Prerequisites: Senior standing, CE 320, CE 350, CE 366, and CE 378 and at least one of the following CE 424, CE 427, CE 485, CE 451, CE 454, CE 458, CE 461 or CE 475.

Use of software to design projects in teams, prepare construction drawings, and deliver engineering reports. This class is normally taken during the last term on campus.

CE 402 Construction Engineering Project – Site Development. (C & W) (1-3) 4 hours.

Prerequisites: Senior standing in construction engineering, CE 340, CE 366, CE 461, CE 463 and at least one of the following: CE 350 or CE 378. Use of software to design projects in teams, prepare construction drawings, and deliver engineering reports. This class is normally taken during the last term on campus.

CE 403 Civil Engineering Project – Building Design. (C & W) (1-3) 4 hours.

Prerequisites: Senior standing in Civil Engineering, CE 331, CE 340, CE 366, either CE 433 or CE 434 and one of the following: CE 432, CE 436, CE 437, CE 438, CE 439, CE 444, or CE 462.

Use software to design building projects in teams, prepare construction drawings, and deliver engineering reports. This class is normally taken during the last term on campus.

CE 404 Construction Engineering Project – Building Design (C & W) (1-3) 4 hours.

Prerequisites: Senior standing in Construction Engineering. CE 331, CE 340, CE 366, CE 462, and CE 463. This class is normally taken during the last term on campus.

CE 411 Rock Mechanics. (3-0) 3 hours.

Prerequisites: AEM 250 and CE 340.

Theories of rock failure and ground movement; stability analysis and design of underground openings; rock testing methods.

CE 414 Information Systems. (3-0) 3 hours.

Prerequisites: CE 366

An overview of Management Information Systems (MIS). Focus on the practical aspects, applications, and methodology of MIS, particularly from the construction engineer's perspective. Information systems design methodology will be covered in detail.

CE 415 Advanced Engineering Economics. (3-0) 3 hours.

Prerequisites: IE 203 or CE 366; and GES 255 or GES 400 or GES 500. Capital budgeting, decision making under risk and uncertainty, utility theory, cost estimation, and design of financial control through management simulation.

CE 416 Advanced Information System Design. (3-0) 3 hours

Prerequisites: IE 414 or equivalent

Current concepts in information systems architecture and applications, including decision support systems and expert systems. Emphasis placed on expanded use of systems design methodology.

CE 417 Advanced Project Management. (3-0) 3 hours.

Prerequisites: IE 203 or CE 366; and GES 255 or equivalent.

This is an engineering management course designed to introduce students to the functions of project engineering and managers. It details the processes of planning and controlling project scope time and cost.

CE 418 Engineering Management. (3-0) 3 hours.

Prerequisites: CE 366

An introduction to management principles, and the management functions of planning, organizing, motivating, and controlling. Management of engineers in research, design, manufacturing/construction, and quality will be studied.

CE 422 Solid and Hazardous Waste Management. (3-0) 3 hours.

Prerequisite: CE 320 or BS degree in a compatible field.

Engineering design and regulatory requirements for the collection, storage, recycling, treatment, and disposal of solid wastes

CE 424 Water and Wastewater Treatment. (3) 3 hours.

Prerequisite: CE 320

Physical, chemical, and biological principles and design of municipal water and wastewater treatment units.

CE 425 Air Pollution Engineering. (3-0) 3 hours.

Prerequisites: AEM 311 or CHE 304, and CE 320

Introduction to the source, characteristics and effects of air pollution and to air pollution control technology and design.

CE 427 Stormwater Management. (3) 3 hours.

Prerequisites: CE 378 and CE 475

Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics; selection and design of controls; regulations.

CE 432 Advanced Structural Analysis. (3-0) 3 hours.

Prerequisite: CE 331.

Introduction to the matrix-displacement method of analysis for framed structures, including computer implementation of analysis. An introduction to finite-element analysis is also included.

CE 433 Reinforced Concrete Structures I. (3-0) 3 hours.

Prerequisite: CE 331.

Concrete materials; placement of concrete; and theory and design of reinforced beams, girders, slabs, columns, and footings.

CE 434 Structural Steel Design I. (3-0) 3 hours.

Prerequisite: CE 331.

Theory and design of structural steel members and their connections.

CE 436 Wood Structural Design. (3-0) 3 hours.

Prerequisite: CE 331.

Modern timber engineering: design of beams, columns, trusses, and floor systems.

CE 437 Reinforced Concrete Structures II. (3-0) 3 hours.

Prerequisite: CE 433.

Design of reinforced concrete building components including two-way slabs, slender columns, prestressed beams, slab-on-grade, and retaining walls.

CE 438 Structural Steel Design II. (3-0) 3 hours.

Prerequisite: CE 434.

Basic and elementary design procedures for steel structures such as plate girders, mill buildings, multistory buildings, highway bridges, and light-gauge steel structures.

CE 439 Design of Masonry Structures. (3) 3 hours.

Prerequisites: CE 331

Design of un-reinforced and reinforced masonry walls, columns, pilasters, beams and lintels.

CE 442 Waste Containment Facilities. (3-0) 3 hours.

Prerequisite: CE 320 and CE 340.

Introduction to the fundamentals of soil behavior as they relate to environmental engineering. Topics include soil behavior, soil compaction, conduction phenomena, geosynthetics, and aspects of landfill design.

CE 444 Foundation Engineering. (3-0) 3 hours.

Prerequisite: CE 340.

Analysis and design of soil foundation systems.

CE 446 Slopes and Retaining Structures. (3-0) 3 hours.

Prerequisite: CE 340.

Analysis and design of slopes and earth retaining structures.

CE 451 Geometric Design of Roadways. (3-0) 3 hours.

Prerequisite: CE 350.

Application of the principles of geometric design: alignment, vertical control, drainage, traffic control, interchanges, and intersections. Design projects will be prepared to illustrate standard techniques.

CE 452 Traffic Safety and Transportation Security. (3-0) 3 hours.

Prerequisite: CE 350.

Introduction to traffic safety techniques: site identification, data gathering and analysis, accident reconstruction, safety treatment selection, resource prioritization, and design projects.

CE 453 Intelligent Transportation Systems (3) 3 hours.

Prerequisite: CE 350

Introduction to the key components and definitions of intelligent transportation systems; advanced user services; legal, institutional and planning issues; system architecture, and system design/construction.

CE 454 Urban Transportation Planning (3) 3 hours.

Prerequisite: CE 350

The course will provide a foundation in urban transportation planning including an introduction to the planning process, software associated with transportation modeling, and conducting transportation planning and traffic impact studies.

CE 457 Pavement Design and Construction. (3-0) 3 hours.

Prerequisite: CE 350.

The thickness design of base, subbase, asphalt, and concrete layers for highway pavements, including both design and construction aspects.

CE 458 Traffic Engineering. (3-0) 3 hours.

Prerequisite: CE 350.

Vehicle operating characteristics, traffic flow, geometric design of road and intersections, and methods of traffic control.

CE 459 Pavement Rehabilitation. (3-0) 3 hours.

Prerequisite: CE 350.

This course covers two areas concerning care of existing highway asphalt and concrete pavements. Major maintenance includes overlay design, additional drainage, recycling, and slab repair. Routine maintenance includes distress surveys, pothole repair, and crack and joint sealing.

CE 460 Front End Planning (3) 3 hours.

Prerequisite: CE 366

Principles and applications for effective early planning of capital facilities including: finance, economics decision making, risk management, team alignment, and front end planning processes and tools.

CE 461 Horizontal Construction Methods (3) 3 hours.

Prerequisite: CE 366

Introduction to horizontal construction equipment and methods; design of horizontal construction systems; and construction operation analysis and simulation.

CE 462 Vertical Construction Methods (3) 3 hours.

Prerequisite: CE 366

Construction of buildings, including mechanical, electrical plumbing and controls systems, design of temporary structures, and planning and design of lifts.

CE 463 Construction Cost Estimating (3) 3 hours.

Prerequisite: CE 366

Addresses the estimating and cost control function from conceptual planning through project execution. Topics include productivity analysis, organization of estimates, cost forecasting, estimating tools and techniques, contingency planning, and relationship to contract types and project execution strategies.

CE 464 Safety Engineering (3-0) 3 hours.

Prerequisites: GES 255 or equivalent or permission of instructor.

An introduction to safety management and accident prevention including state and federal laws related to general and construction projects. Topics include accident theories, safety regulations. Construction Safety act, hazards and their control, human behavior and safety, and safety management.

CE 465 Blasting Engineering. (3-0) 3 hours.

Prerequisite: CE 340 or permission of the instructor.

Behavior of rock under dynamic loads intended to fragment or penetrate; theories of drilling, blasting, and blasting damage criteria; and communication; and application of theory.

CE 467 Construction Accounting and Finance. (3-0) 3 hours.

Prerequisite: CE 366.

Financial management of construction projects. Topics include alternative selection, life-cycle analysis, applied financial management techniques, insurance/indegnification, risk management, and tax implications.

CE 468 Construction Management. (3-0) 3 hours.

Prerequisite: CE 366.

The management structure of construction companies and the laws, regulations, practices, tools, and processes used in planning, scheduling, and monitoring construction projects.

CE 469 Construction Internship. (3-0) 3 hours.

Prerequisite: CE 366.

Practical field experience working with management of construction.

CE 475 Hydrology. (3-0) 3 hours.

Prerequisite: CE 378.

Hydrologic cycle, rainfall-runoff relations, unit hydrograph, statistical hydrology, and hydrologic simulation. Includes a class project with application to flood control, water supply, and multipurpose projects.

CE 480 Forensic Engineering (3) 3 hours.

Prerequisite: AEM 250

When failures in the built environment occur, whether during design, construction or in-service, a thorough examination of the causes is essential to both the evolution sound engineering practices and to dispute resolution through the legal system. The role of the engineer in this process is examined.

CE 481 Legal Aspects of Engineering (3) 3 hours (W)

Prerequisite: CE 262 and (CE 320 or CE 331 or CE 340 or CE 350 or CE 366 or CE 378)

Legal aspects of engineering and construction contracts and specifications; contract formation, interpretation, rights and duties, and changes; legal liabilities and professional ethics of architects, engineers and contractors.

CE 482 Geological Engineering (3-0) 3 hours.

Prerequisite: GEO 101, CE 340 or permission of the instructor.

Methods of surface and subsurface exploration to determine geological and hydrological conditions; engineering properties of rocks in applied engineering practices.

CE 484 Experimental Design & Field Sampling (3) 3 hours.

Prerequisite: CE 320 and GES 255 or permission of instructor.

Experimental design, sensitivity analyses, water sampling, and flow monitoring. Receiving water chemical reactions. Field investigations.

CE 485 Construction Site Erosion (3-0) 3 hours.

Prerequisite: CE 378

Nature and magnitude of erosion problems. Erosion plan development. Rainfall energy and erosion predictions. Sediment transport in urban areas. Channel and slope stability, and sedimentation and other controls.

CE 491 and CE 492 Special Problems (Area). Variable credit.

Prerequisite: Written permission of the instructor.

Credit is based on the amount of work undertaken. Analysis and/or design in any phase of civil engineering. The course is intended to take care of needs not covered by regularly offered courses.

Advanced Undergraduate/Entry-level Graduate Courses**CE 514 Information Systems** (3-0) 3 hours.

Prerequisites: CE 366

An overview of Management Information Systems (MIS). Focus on the practical aspects, applications, and methodology of MIS, particularly from the construction engineer's perspective. Information systems design methodology will be covered in detail.

CE 515 Advanced Engineering Economics (3-0) 3 hours.

Prerequisites: IE 203 or CE 366; and GES 255 or GES 400 or GES 500.

Capital budgeting, decision making under risk and uncertainty, utility theory, cost estimation, and design of financial control through management simulation.

CE 516 Advanced Information System Design (3-0) 3 hours

Prerequisites: IE 414 or equivalent

Current concepts in information systems architecture and applications, including decision support systems and expert systems. Emphasis placed on expanded use of systems design methodology.

CE 517 Advanced Project Management (3-0) 3 hours.

Prerequisites: IE 203 or CE 366; and GES 255 or equivalent.

This is an engineering management course designed to introduce students to the functions of project engineering and managers. It details the processes of planning and controlling project scope time and cost.

CE 518 Engineering Management (3-0) 3 hours.

Prerequisites: CE 366

Not open to student who have credit for CE 418.

An introduction to management principles, and the management functions of planning, organizing, motivating, and controlling. Management of engineers in research, design, manufacturing/construction, and quality will be studied.

CE 522 Solid and Hazardous Waste Management. (3-0) 3 hours.

Prerequisite: CE 320 or BS degree in a compatible field.

Engineering design and regulatory requirements for the collection, storage, recycling, treatment, and disposal of solid wastes.

CE 525 Air Pollution. (3-0) 3 hours.

Prerequisite: AEM 311 or CE 320.

Introduction to the source, characteristics, and effects of air pollution and to air pollution control technology and design.

CE 526 Physical/Chemical Processes in Water and Wastewater Treatment. (3-0) 3 hours.

Prerequisites: Graduate standing and course in differential equations; or permission of the instructor.

Discussion of fundamentals of physical/chemical processes as they relate to environmental quality and water and wastewater treatment. Reactor principle, chemical processes, and particle removal process will be discussed from fundamental theory.

CE 527 Storm Water Management (3) 3 hours.

Prerequisites: CE 378 and CE 475

Quality and quantity of urban storm water. Receiving water problems and sources of pollutants. Runoff quality and quantity characteristics; selection and design of controls; regulations.

CE 528 Environmental Aqueous Chemistry. (3-0) 3 hours.

Prerequisite: CH 102 or CE 320.

Introduction to chemical principles as they apply to environmental aqueous systems. Chemical kinetics, equilibria, precipitation, redox reactions, and microbiological/chemical interaction in environmental systems are among topics covered.

CE 529 Environmental Systems Analysis. (3-0) 3 hours.

Prerequisites: MATH 238 and CE 320; or BS degree in a compatible field.

Systems modeling, systems optimization, and economics are applied to the analysis and solution of environmental engineering problems. Example applications are used extensively throughout the course.

CE 532 Advanced Structural Analysis. (3-0) 3 hours.

Prerequisites: CE 331.

Introduction to the matrix-displacement method of analysis for framed structures, including computer implementation of analysis. An introduction to finite-element analysis is also included.

CE 533 Prestressed Concrete Structures. (3-0) 3 hours.

Prerequisites: CE 433.

Methods and materials for prestressing concrete members and structures. Analysis and design of determinate and indeterminate structures, including high-strength materials, relaxation, and time effects.

CE 534 Advanced Structural Mechanics (3-0) 3 hours.

Prerequisites: CE 331

Introduction to advanced structural mechanics topics, including elementary elasticity, elementary beam theories, beams on elastic foundations, energy methods, buckling and free vibration of beams, and elementary thin-plate theory.

CE 535 Bridge Design and Construction. (3-0) 3 hours.

Prerequisites: CE 433 and CE 434.

Design of highway bridges, including: bridge layout, estimated construction costs, design of reinforced concrete bridge deck, and design of prestressed concrete bridge girders.

CE 536 Wood Structural Design. (3-0) 3 hours.

Prerequisite: CE 331.

Modern timber engineering: design of beams, columns, trusses, and floor systems.

CE 537 Reinforced Concrete Structures II. (3-0) 3 hours.

Prerequisites: CE 433.

Design of reinforced concrete building components including: two-way slabs, slender columns, prestressed beams, slab-on-grade, and retaining walls.

CE 538 Structural Steel Design II. (3-0) 3 hours.

Prerequisite: CE 434.

Basic and elementary design procedures for steel structures such as plate girders, mill buildings, multi-story buildings, highway bridges, and light-gauge steel structures.

CE 539 Design of Masonry Structures (3) 3 hours.

Prerequisites: CE 331

Design of un-reinforced and reinforced masonry walls, columns, pilasters, beams and lintels.

CE 542 Waste Containment Facilities. (3-0) 3 hours.

Prerequisite: CE 340.

Introduction to the fundamentals of soil behavior as they relate to environmental engineering. Topics include soil behavior, soil compaction, conduction phenomena, geosynthetics, and aspects of landfill design.

CE 544 Foundation Engineering. (3-0) 3 hours.

Prerequisite: CE 340.

Analysis and design of soil foundation systems.

CE 546 Slopes and Retaining Structures. (3-0) 3 hours.

Prerequisite: CE 340.

Analysis and design of slopes and earth retaining structures.

CE 551 Geometric Design of Roadways. (3-0) 3 hours.

Prerequisite: CE 350.

Application of the principles of geometric design: alignment, vertical control, drainage, traffic control, interchanges, and intersections. Design projects will be prepared to illustrate standard techniques.

CE 552 Traffic Safety and Transportation Security. (3-0) 3 hours.

Prerequisite: CE 350.

Introduction to traffic safety techniques: site identification, data gathering and analysis, accident reconstruction, safety treatment selection, resource prioritization, and design projects.

CE 553 Intelligent Transportation Systems (3) 3 hours.

Prerequisite: CE 350

Introduction to the key components and definitions of intelligent transportation systems; advanced user services; legal, institutional and planning issues; system architecture, and system design/construction.

CE 554 Urban Transportation Planning (3) 3 hours.

Prerequisite: CE 350

The course will provide a foundation in urban transportation planning including an introduction to the planning process, software associated with transportation modeling, and conducting transportation planning and traffic impact studies.

CE 555 Planning and Design of Airport Facilities. (3-0) 3 hours.

Prerequisite: CE 350.

A planning and designing course that includes the air transportation system, airport facilities, and regulatory requirements for airport certification.

CE 557 Pavement Design and Construction. (3-0) 3 hours.

Prerequisite: CE 350.

The thickness design of base, subbase, asphalt, and concrete layers for highway pavements, including both design and construction aspects.

CE 558 Traffic Engineering. (3-0) 3 hours.

Prerequisite: CE 350.

Vehicle operating characteristics, traffic flow, geometric design of road and intersections, and methods of traffic control.

CE 559 Pavement Rehabilitation. (3-0) 3 hours.

Prerequisite: CE 350.

This course covers two areas concerning care of existing highway asphalt and concrete pavements. Major maintenance includes overlay design, additional drainage, recycling, and slab repair. Routine maintenance includes distress surveys, pothole repair, and crack and joint sealing.

CE 560 Front End Planning (3) 3 hours.

Prerequisite: CE 366

Principles and applications for effective early planning of capital facilities including: finance, economics decision making, risk management, team alignment, and front end planning processes and tools.

CE 561 Horizontal Construction Methods (3) 3 hours.

Prerequisite: CE 366

Introduction to horizontal construction equipment and methods; design of horizontal construction systems; and construction operation analysis and simulation.

CE 562 Vertical Construction Methods (3) 3 hours.

Prerequisite: CE 366

Construction of buildings, including mechanical, electrical plumbing and controls systems, design of temporary structures, and planning and design of lifts.

CE 563 Construction Cost Estimating (3) 3 hours.

Prerequisite: CE 366

Addresses the estimating and cost control function from conceptual planning through project execution. Topics include productivity analysis, organization of estimates, cost forecasting, estimating tools and techniques, contingency planning, and relationship to contract types and project execution strategies.

CE 565 Advanced Blasting Engineering. (3-0) 3 hours.

Prerequisites: CE 340 or permission of the instructor.

Behavior of rock under dynamic loads intended to fragment or penetrate; theories of drilling, blasting, and communication; and application of theory.

CE 567 Construction Accounting and Finance (3) 3 hours.

Prerequisite: CE 366.

Financial management of construction projects. Topics include alternative

selection, life-cycle analysis, applied financial management techniques, insurance/indemnification, risk management, and tax implications.

CE 568 Construction Scheduling (3-0) 3 hours.

Prerequisite: CE 366.

The management structure of construction companies and the laws, regulations, practices, tools, and processes used in planning, scheduling, and monitoring construction projects.

CE 569 Construction Internship (3) 3 hours.

Prerequisite: CE 366.

Practical field experience working with management of construction

CE 570 Open Channel Flow. (3-0) 3 hours.

Prerequisite: CE 378.

Basic concepts of fluid flow, energy and momentum principles, flow resistance in non-uniform sections, channel controls and transitions, and non-uniform flow computations.

CE 571 Groundwater Hydraulics. (3-0) 3 hours.

Prerequisite: CE 378.

Occurrence and uses of groundwater; saturated and unsaturated groundwater flow; quantitative treatment of water flow; groundwater-surface water interactions; regional groundwater flow; flow-nets; well hydraulics; and containment transport and dispersion in groundwater.

CE 573 Statistical Applications in Civil Engineering. (3-0) 3 hours.

Prerequisite: MATH 238.

Applications of statistical and probabilistic methodologies for analysis and solution of practical civil engineering problems, including frequency and risk analysis, analyses of experimental data, and systems simulation and optimization.

CE 575 Hydrology. (3-0) 3 hours.

Prerequisite: CE 378

Hydrologic cycle, rainfall-runoff relations, unit hydrograph, statistical hydrology, and hydrologic simulation. Includes a class project with application to flood control, water supply, and multipurpose projects.

CE 580 Forensic Engineering (3) 3 hours.

Prerequisite: AEM 250

When failures in the built environment occur, whether during design, construction or in-service, a thorough examination of the causes is essential to both the evolution sound engineering practices and to dispute resolution through the legal system. The role of the engineer in this process is examined.

CE 581 Legal Aspects of Engineering (3) 3 hours. (W)

Prerequisite: CE 262 and (CE 320 or CE 331 or CE 340 or CE 350 or CE 366 or CE 378)

Legal aspects of engineering and construction contracts and specifications; contract formation, interpretation, rights and duties, and changes; legal liabilities and professional ethics of architects, engineers and contractors.

CE 582 Advanced Geological Engineering. (3-0) 3 hours.

Prerequisite: GEO 101, CE 340, or permission of instructor.

Engineering properties of rocks and soils; surface and subsurface exploration; ground water; land subsidence; earthquakes; geophysical techniques; and application of geology to civil, mining, and environmental engineering.

CE 591 and CE 592 Special Problems. 1 to 3 hours.

Prerequisite: Written permission of the instructor.

Independent study. Credit is based on the amount of work undertaken.

CLASSICS (CL)**(SEE ALSO GREEK AND LATIN)**

Office: 239 B.B. Comer Hall

*CL 130 through CL 386 require no knowledge of Greek or Latin.***CL 130 The Roman Heritage.** 3 hours.

Introductory survey of the Roman contribution to Western civilization.

CL 222 Greek and Roman Mythology. 3 hours.

Introduction to classical mythology itself and the principal Greek and Roman myths. Offered each semester.

CL 235 History of the Christian Church to 1500 (same as HY 235). 3 hours.**CL 236 History of the Christian Church since 1500** (same as HY 236). 3 hours.

CL 345 Women in Ancient Greece. 3 hours.

A study of the origins of patriarchal attitudes and ideas in Western civilization through an examination of classical literature, laws, artistic expressions, philosophical treatises, and medical works relating to the biological constitution, social status, and life of women in ancient Greece. Also investigated are the factual realities of women's life, as these can be reconstructed on the basis of the remains of female writings such as those of Sappho.

CL 350 Roman Religion. 3 hours.

Survey of the rites and structure of ancient Roman cult with special emphasis on the Roman religious calendar and the clash between paganism and Christianity.

CL 375 Family in Ancient Rome. 3 hours.

Study of the structure of the Roman family, the social role of its individual members, and the civic laws and the traditions that governed them.

CL 380 Special Topics. 3–6 hours.

Detailed investigations of specific aspects of Greco-Roman civilization such as ancient drama, women's lives, ancient religion, and technological achievements.

CL 384 Ancient Egypt and the Near East. 3 hours.

Introduction to Egypt's ancient history (from the pyramids to the Ptolemies), with emphasis on the civilization's contributions to Western heritage.

CL 385 History of Greece. 3 hours.

Survey of the history of Greece from earliest times to the death of Alexander the Great, with emphasis on the Golden Age.

CL 386 History of Rome. 3 hours.

Introduction to the ancient history of Rome, with emphasis on the Republic from its Etruscan beginnings to the Second Punic War, and on the golden age of Caesar Augustus at the beginning of the Roman Empire.

CLOTHING, TEXTILES, AND INTERIOR DESIGN (CTD)

Professor Shirley Foster, Interim Department Head

Office: 307 Doster Hall

CTD 102 Applied Design. 3 hours.

Basic concepts in organization and evaluation of design, and its contribution to the enrichment of living. Usually offered in summer school. Two lectures, one laboratory.

CTD 121 Introduction to Interior Design. 3 hours.

Introduction to the functional and aesthetic requirements of lifespaces, with emphasis on user needs and the home environment. Usually offered in summer school. Two lectures, one laboratory.

CTD 216 Beginning Weaving. 3 hours.

Study of original design in loom weaving techniques; dressing the loom; drafting designs; and weaving and finishing procedures. Offered irregularly. Two laboratories.

CTD 217 Fashion Illustration. 3 hours.

Prerequisites: CTD 102 and ART 110.

Emphasis is on the development of the fashion figure, design details, fabric rendering, flats, customer profile analysis, and collection development. In addition, students using advanced computer design software, create original digital design layouts of their work. Two lectures, one laboratory.

CTD 219 Textile Design. 3 hours.

Using the latest computerized design systems, students create original designs, repeats, colorways, and coordinates targeting specific markets. Emphasis is on the creative use of advanced software, awareness of industry trends, and the development of an original portfolio of digitally produced designs. Two lectures, one laboratory.

CTD 221 Materials and Sources for Interior Design. 3 hours.

Corequisite: CTD 225.

Study of manufacturers' products for residential and nonresidential interior design; construction materials, finishes, furniture, and furnishings. Offered in the fall semester.

CTD 225 Residential Design/Graphic Communication. 3 hours.

Prerequisite: CTD 121.

Corequisites: CTD 102 or studio art, CTD 221, and DR 135.

Fundamentals of residential interior design with emphasis on presentation graphics. Exploration of programming, universal access, and lighting for the residential environment. Offered in the fall semester. Two laboratories.

CTD 226 Nonresidential Design/Graphic Communication. 3 hours.

Prerequisite: CTD 225.

Corequisites: DR 131, and CTD 102 or studio art.

Fundamentals of nonresidential interior design with emphasis on presentation graphics. Exploration of programming, spatial organization, and codes and standards for the business environment. Offered in the spring semester. Two laboratories.

CTD 231 Sewn Products Analysis. 3 hours.

Prerequisite: CTD 261.

Structural analysis of textile products for apparel and household use. Focus on products, standards, specifications, and relationships among performance, quality, and price.

CTD 241 Apparel Construction. 3 hours.

Introduction to apparel producer-retailer relationships. Emphasis on quality control and time management in meeting apparel specifications through application of apparel construction, fitting, and pattern alteration principles. Two laboratories.

CTD 245 Apparel Production. 3 hours.

Prerequisite: CTD 241.

Corequisite: CTD 261.

Team approach to apparel product development including market research, design concepts, garment specification writing, sourcing, costing, production, quality control, and promotional materials. Offered in the spring semester. Two laboratories.

CTD 261 Textiles. 3 hours.

Characteristics of the textile industry, fibers, yarns, fabric construction, and finishes. Selection, care, and performance characteristics.

CTD 281 Fashion Retailing I. 3 hours.

Organization, promotion methods, and interrelationship of the textiles, apparel, and retailing industries. Includes consumer demand and diffusion of fashion. Offered in the fall semester.

CTD 320 Visual Merchandising. 3 hours.

Prerequisite: CTD 102.

Introduces contemporary display techniques, equipment, and materials for designing three-dimensional product presentations within the retail environment. Using advanced computer software, students create and execute original visual programs and storewide promotions. Two lectures, one laboratory.

CTD 323 Interior Design Internship Seminar. 1 hour.

Exploration of internship possibilities and requirements, development of job-search skills and internship placement. Enrollment open to students applying for interior design internships and registration in CTD 423 the following summer. Offered in the spring semester.

CTD 325 Design for Special Populations. 3 hours.

Prerequisite: CTD 226.

Design of interior environments for persons with special needs such as health care, rehabilitation, education, and congregate-care interiors. Cabinet and millwork design. Offered in the fall semester. One lecture, two laboratories.

CTD 326 Design for Hospitality Interiors. 3 hours.

Prerequisite: CTD 325.

Planning and design of interior spaces; project management; design and specification of interior architectural materials and furnishings. Offered in the spring semester. One lecture, two laboratories.

CTD 328 Professional Procedures in Interior Design. 3 hours.

Philosophy and organization of professional practice; studio management, contracts, budgets, specifications, and professional organizations. Offered in the spring semester.

CTD 330 Intermediate AutoCAD. 3 hours.

Prerequisites: CTD 121, CTD 225, CTD 226, DR 135, and DR 250.

Principles, terminology, command sequencing and execution, and equipment use for computer-aided design applications within the field of interior design. Review of basic commands with emphasis on intermediate and advanced applications.

CTD 335 Interior Design Media. 3 hours.

Prerequisites: CTD 225, CTD 226, or approval of instructor.

Emphasis is on developing rendering techniques and improving some portfolio pieces as time allows. Freehand perspective methods will be demonstrated, practiced, and applied.

CTD 349 Computer-Aided Apparel Design. 3 hours.

Prerequisite: CTD 350.

Application of computer technology to fashion illustration, apparel design, marker making, pattern making, and pattern grading. Offered in the spring semester. Two laboratories.

CTD 350 Flat Pattern Design. 3 hours.

Prerequisites: CTD 102, CTD 217, and CTD 245.

Principles and procedures governing development and use of master patterns. Application of flat pattern principles to the execution of original

designs. Offered in the fall semester. Two laboratories.

CTD 351 Apparel Design through Draping. 3 hours.

Prerequisite: CTD 350.

Techniques of draping on a dress form are applied in the execution of original designs. Offered in the spring semester. Two laboratories.

CTD 371 Lighting for Interiors. 3 hours.

Prerequisites: CTD 226, DR 131, and DR 135.

Integration of the theory, techniques, and art of lighting design; principles, terminology, and equipment used in light distribution systems in the interior environment. Two lectures, one laboratory.

CTD 381 Fashion Retailing Seminar. 3 hours.

Focus on professional development and profit analysis. Exploration of internship possibilities and requirements, development of job-search skills, and internship placement. Enrollment open to students applying for fashion retailing internships. Offered in the spring semester.

CTD 415 History of Textile Design. 3 hours.

Study of the history of textiles emphasizing the influence of cultural factors. Writing proficiency must be demonstrated to receive credit for this course. Offered in the spring semester.

CTD 421 History of Interiors and Furnishings I. 3 hours.

Study of the furnishings, interior treatments, and lifespaces characteristic of selected styles up to 1790. Offered in the fall semester.

CTD 422 History of Interiors and Furnishings II. 3 hours.

Study of American, 19th-century, and 20th-century furnishings, interior treatments, and lifespaces. Writing proficiency must be demonstrated to receive credit for this course. Offered in the spring semester.

CTD 423 Internship in Interior Design. 3 hours.

Prerequisites: CTD 325, CTD 326, and CTD 328.

Experience in interior design or related business under supervision of advisor and the business management. Offered during the summer session.

CTD 424 Architectural Study for Interior Design. 3 hours.

An exploration of the material culture of architectural style for interior design students utilizing lecture, directed reading, field study, and written analysis. The Tuscaloosa, Alabama, historical districts, the Alabama Black Belt towns of Demopolis and Greensboro, and the contrast of historic and modern in Florence, Alabama, will provide hands-on study of architectural history and style.

CTD 425 Advanced Residential Design/Historic Documentation.

4 hours.

Prerequisite: CTD 326.

Problems in design of the home environment; individual and group problem solving. Emphasis is on historic preservation principles and practices for interior designers. Offered in the fall semester. One lecture, two laboratories.

CTD 426 Advanced Nonresidential Design. 4 hours.

Prerequisite: CTD 425.

Problems in design of business and professional interiors; construction drawings using computer-assisted design; individual and group problem solving. Requires senior thesis. Offered in the spring semester. One lecture, two laboratories.

CTD 446 Cultural Dynamics of Apparel and Textiles. 3 hours.

Impact of cultural dynamics on apparel and textile production and marketing. Offered in the spring semester.

CTD 447 Textiles and Apparel in International Trade. 3 hours.

Prerequisites: EC 111 or EC 110, and CTD 281.

Study of the evolution of the textile industry and its products, emphasizing multinational characteristics and contemporary issues. Writing proficiency must be demonstrated to receive credit for this course.

CTD 448 History of Costume. 3 hours.

Costume development from prehistoric to modern times. Study of cultural forces in relation to the evolution of costume. Offered in the fall semester.

CTD 449 Sociopsychological Aspects of Clothing. 3 hours.

Application of behavioral-science theories to clothing. Offered irregularly.

CTD 450 Advanced Apparel Design. 3 hours.

Prerequisite: CTD 351.

Synthesis and application of design theories; procedures and processes used in the apparel industry. Development of portfolio of original design work is required. Two laboratories. Offered in the fall semester.

CTD 455 Textile/Apparel Production/Design Internship. 3 to 6 hours.

Prerequisite: CTD 351.

Supervised internship with a textile or apparel manufacturer. Open only to AT majors with an apparel design concentration, on a competitive basis.

CTD 461 Quality Control for Textile Products. 3 hours.

Prerequisite: CTD 261.

Use of standard laboratory test methods and computerized statistical data

analysis to evaluate the quality of textile products. Block course. Offered in the fall semester.

CTD 481 Fashion Retailing II. 3 hours.

Prerequisite: CTD 381.

Merchandise planning and control; techniques of merchandising, including unit and dollar assortment planning, inventory control, and procurement. Block course. Offered in the fall semester.

CTD 485 Internship in Fashion Retailing. 6 hours.

Prerequisites: CTD 381, CTD 461, and CTD 481.

To participate, students must make application to the department by the first day of classes during the spring semester of the junior year. A grade point average of 2.5 or higher is required for the professional courses specified under "Fashion retailing concentration for AT majors" in this catalog. The course involves supervised work experience in a business related to the major field of study.

CTD 498:499 Directed Individual Studies. 1 to 6 hours.

Prerequisite: Permission of department head.

COMMUNICATION STUDIES (COM)

Dr. Beth S. Bennett, Chairperson

Office: 203 Phifer Hall

A student majoring in communication studies must make a "C-" or higher in all courses required in the major. Students who enroll in 300- or 400-level COM courses must have grade point averages of 2.0 or higher.

COM 100 Rhetoric and Society. 3 hours.

The impact of public discourse on the ideas and issues of culture and history. Offered in the fall semester. HU designation for university core curriculum.

COM 101 Principles of Human Communication. 3 hours.

General introduction to communication studies as a way of understanding how humans coordinate social meaning and achieve communicative goals. The focus is on identifying the foundation of human communication and the functions of communication in everyday situations. Offered in the spring semester. SB designation for university core curriculum.

COM 104 Forensics. 1 hour per semester (may earn up to 6 hours).

Prerequisite: Membership in the Alabama Debate Squad or the Alabama Individual Events Program. The debate program focuses on the study of oral argument. The individual events program focuses on the preparation and presentation of various kinds of speeches and on the oral interpretation of literature.

COM 121 Honors Critical Decision Making. 3 hours.

Prerequisite: Enrollment in the University Honors College.

Introductory course in thinking critically for the purpose of participating in the process of public decision making and understanding how discussion, argumentation, and persuasion function as communication forms for that process. HU designation for university core curriculum.

COM 122 Critical Decision Making. 3 hours.

Theory and practice of basic principles of the decision making process, providing a general introduction to persuasion, argument, and small-group communication. HU designation for University core curriculum.

COM 123 Public Speaking. 3 hours.

Theory and practice of basic principles of public speaking, with emphasis on the compositional and presentational aspects of communication in formal speaking situations. HU designation for University core curriculum.

COM 210 Oral Interpretation. 3 hours.

Beginning course in the oral interpretation of literature. The course covers principles and techniques of analyzing and presenting poetry, prose, and dramatic literature orally. HU designation for University core curriculum.

COM 220 Interpersonal Communication. 3 hours.

Study of verbal and nonverbal communication in the evolution of human relationships. SB designation for University core curriculum.

COM 225 Small Group Communication. 3 hours.

Survey and application of basic group communication principles as related to task-oriented interpersonal, small-group, and large-group dynamics, within the context of complex organizations.

COM 295 Special Topics. 3 hours.

Reading and discussion in areas of significance. Topics vary.

COM 300 Human Communication Research. 3 hours.

Prerequisite: COM 101.

Focus on how communication research can be used to answer practical questions related to human communication and the media. Emphasis is given to critical analysis and empirical or social scientific research.

COM 301 Introduction to Rhetorical Theory. 3 hours.

Survey of the historical development of rhetorical theory from the classical period to the present.

COM 310 Rhetorical Criticism. 3 hours.

Prerequisite: COM 100. Survey of critical approaches to rhetorical analyses of discourse. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.

COM 323 Advanced Public Speaking. 3 hours.

Prerequisite: COM 104, COM 121, COM 122, or 123. Advanced exploration of principles and models of contemporary public address.

COM 340 Communication and Social Identity. 3 hours.

Investigation of selected issues such as gender and minority group membership and their relationships to communicative strategies used by persons who seek to achieve identity and participation in the larger community. (This is an approved course for the minor in women's studies.)

COM 341 Rhetoric and American Politics. 3 hours.

Introduction to the structures and functions of written, spoken, and electronically mass-mediated political discourse in contemporary society. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.

COM 342 Rhetoric of Social Protest. 3 hours.

Study of social protest discourse and how it functions rhetorically. Writing proficiency is a requirement for passing the course. W designation for university core curriculum.

COM 348 Argumentation. 3 hours.

Theory and practice of argumentation, applying basic principles to both oral and written discourse.

COM 349 Practicum in Forensics. 3 hours.

Practical experience in establishing and administering forensic programs, preparing students for competitive forensics events, rendering critical judgments, and conducting forensics tournaments.

COM 350 Organizational Communication. 3 hours.

Theoretical approach to the study of human communication in the organization context. Emphasis is on predominant organizational communication theories and communication networks, as well as dyadic, small group, and public communication processes.

COM 352 Business and Professional Communication. 3 hours.

Application of self-presentation and interaction concepts and skills to the transition from undergraduate studies to professional life, including resume preparation and presentation, interviewing, and interaction management in business and professional settings.

COM 366 Visual Culture and Communication. 3 hours.

Introduction to the critical understanding of visual images and their uses in a variety of rhetorical actions that humans perform in persuasion: informing, governing, remembering, and authorizing public life and culture.

COM 395 Special Topics. 3 hours.

Reading, research, and discussion in areas of significance. Topics vary.

COM 413 Communication and Diversity (also MC 413). 3 hours.

Prerequisite: COM 100, COM 101, or permission of the instructor.

Study and analysis of issues of diversity as they relate to groups in society and in communication fields. Emphasis is on the media's treatment of various groups in society. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.

COM 415 African American Rhetoric. 3 hours.

Prerequisite: COM 100 or permission of the instructor.

A historical-critical investigation of African American public discourse from the Revolutionary era to the present, exploring rhetorical strategies for social change and building community. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.

COM 425 Gender and Political Communication. 3 hours.

Prerequisite: COM 100, COM 101, or permission of the instructor.

Study of the impact of gender on political communication activities. Topics include gender differences in political messages and voter orientation, masculine ideals of leadership, women's roles and advancement in the political sphere, and media representations.

COM 436 Independent Study. 3 to 9 hours.

Prerequisite: permission of the department chairperson (submit the form linked to the course title to secure permission).

Those permitted to do independent study will be required to participate in an undergraduate research colloquium as necessary to completing the work for academic credit.

COM 450 Advanced Organizational Communication. 3 hours.

Prerequisite: COM 350.

Advanced course focusing on current trends and issues in organizational communication. Course content will center on a variety of topics designated

important to the conceptualization and successful operation of organizations.

Writing proficiency is a requirement for passing the course. W designation for University core curriculum.

COM 451 Instructional Communication. 3 hours.

Principles and strategies for teaching communication studies at the high-school and community-college level.

COM 460 Group Leadership. 3 hours.

Prerequisite: COM 100, COM 101, or permission of the instructor. Advanced study of small-group behavior. Theories of leadership are examined in detail as they relate to problem solving in group situations.

COM 462 Theories of Persuasion. 3 hours.

Prerequisite: COM 101, or permission of the instructor.

Critical review of social influence theories and practice in the area of persuasion and human action. Special emphasis is given to the application of the theories in interpersonal and organizational communication contexts.

COM 463 Relational Communication. 3 hours.

Focused investigation of communication in close personal relationships, with primary emphasis on contemporary concepts and theories of romantic relationships and friendships. Writing proficiency is a requirement for passing the course. W designation for University core curriculum.

COM 467 Seminar in Public Address. 3 hours.

A topical consideration of individual case studies from public discourse, designed to probe problems of the nature of the audience, the ethics of persuasion, and the power of public advocacy in mass society.

COM 469 Communication and Gender. 3 hours.

Prerequisite: COM 100, COM 101, or permission of the instructor. Explores the role of communication in the construction of gender. Covers theories of gender construction, as well as the roles of gender and communication in various relational contexts. (This is an approved course for the minor in women's studies.)

COM 490 Communication Studies Internship for Majors. 1 to 3 hours.

Prerequisites: COM 100 or COM 101, 6 hours of COM courses at the 300/400 level, junior or senior standing, and written permission of the department (use the form linked to the course title).

Supervised field experience in communication studies.

COM 495 Special Topics. 3 to 6 hours.

Reading, research, and discussion in areas of significance. Topics vary.

COM 499 Capstone Seminar. 3 hours.

Prerequisites: COM 100 or COM 101, COM 300 or COM 310, and junior or senior standing.

Gives advanced students an opportunity to integrate and synthesize what they have learned in the communication studies major. Topics will vary.

COMMUNICATIVE DISORDERS (CD)

Office: 700 University Boulevard East, Suite 145

CD 201 Exceptional People. 3 hours.

A practical introduction to human exceptionality with an emphasis on expanding one's knowledge, insight, awareness, and individual comfort level.

CD 225 Introduction to Communicative Disorders. 3 hours.

Prerequisite: Minimum 2.5 GPA and sophomore standing.

Study of the types of speech, language, and hearing disorders; an introduction to the principles of rehabilitation of communicative disorders; and consideration of employment settings.

CD 226 Language and Speech Development. 3 hours.

Prerequisite: Minimum 2.5 GPA and sophomore standing.

Theory and practice of normal speech and language processes and sequences.

CD 244 Phonetics. 3 hours.

Prerequisite: Minimum 2.5 GPA and sophomore standing.

Study of the principles of phonetics and their application to speech. The International Phonetic Alphabet is used for study and transcription.

CD 275 Anatomy and Physiology of the Speech and Hearing Mechanism. 3 hours.

Prerequisite: Minimum 2.5 GPA and sophomore standing.

Detailed study of the bases of speech and hearing, including anatomy, physiology, and neurology.

CD 277 Preprofessional Laboratory Experience. 1 hour, pass/fail.

Structured observational activities for students prior to their enrollment in a practicum course in speech-language pathology. Open to CD majors only.

CD 308 Speech and Language Disorders I. 3 hours.

Prerequisites: CD 225, CD 226, CD 244, CD 275, and minimum 2.8 GPA. An introduction to articulation, phonology, language disorders in children, and literacy.

CD 309 Speech and Language Disorders II. 3 hours.

Prerequisites: CD 225, CD 226, CD 244, CD 275 and minimum 2.8 GPA. An introduction to aphasia, traumatic brain injury, dementia, dysarthria, and apraxia.

CD 350 Independent Study in Communicative Disorders. 1 to 3 hours.

Prerequisites: 18 hours in the department, 3.0 grade point average, and permission of the instructor.

Directed readings in an area of communicative disorders. Open to CD majors only.

CD 351 Hearing Science. 3 hours.

Prerequisites: CD 225, CD 226, CD 244, CD 275 and minimum 2.8 GPA.

This course will provide the student with an understanding of the physical aspects of sound and how it is processed both physiologically through the human auditory system. In addition, the student will become familiar with the anatomy of the hearing mechanism.

CD 377 Clinical Practicum I, Speech. 3 hours.

Prerequisites: CD 225, CD 226, CD 244, CD 275, CD 277, CD 308, admission to clinical practicum, and minimum 3.3 overall GPA and 3.0 major GPA. Supervised clinical practice in speech therapy with children. Open to CD majors only.

CD 378 Clinical Practicum II, Speech. 1-3 hours.

Prerequisites: CD 377, minimum overall 3.3 GPA, minimum 3.0 major GPA, and permission of the clinical coordinator and instructor.

Supervised clinical practice in speech therapy with children.

CD 411 Speech Science. 3 hours.

Prerequisite: CD 225, CD 226, CD 244, CD 275, and minimum 2.8 GPA.

A study of speech physiology, basic electronics, basic acoustics, speech acoustics, auditory perception, and neuroanatomy. Class work and laboratory sessions cover speech spectrographic analysis, basic sound measurement, and selected other instrumentation used in the speech and hearing science laboratory.

CD 416 Multicultural Issues in Speech and Hearing. 3 hours.

Prerequisite: CD 225, CD 226, CD 244, CD 275, CD 308, and minimum 2.8 GPA.

A framework for systematically analyzing cultural similarities and differences will be provided and will serve as a model to examine cultural differences in the clinical setting.

CD 443 Basic Audiology. 3 hours.

Prerequisite: CD 225, CD 226, CD 244, CD 275, and minimum 2.8 GPA.

Introduction to hearing evaluation, conservation, and impairment. Also considers the auditory system: anatomy, physiology, and pathology. Includes three laboratory sessions.

CD 444 Aural Rehabilitation. 3 hours.

Prerequisite: CD 225, CD 226, CD 244, CD 275, and minimum 2.8 GPA.

The rehabilitation of hearing-impaired people primarily through auditory and visual training is addressed. Other sensory training, language development, speech production, and guidance are also considered. Open to CD majors only.

CD 445 Audiology Laboratory Experience. 1 to 3 hours.

Prerequisite: CD 225, CD 226, CD 244, CD 275, CD 443, minimum 2.8 GPA, and permission of the instructor.

Supervised laboratory or clinical experience in hearing evaluation and rehabilitation. Open to CD majors only.

CD 454 Fluency Disorders. 3 hours.

Prerequisite: CD 225, CD 226, CD 244, CD 275, CD 308, and minimum 2.8 GPA.

The study of the nature, assessment, and treatment of stuttering. Emphasis on understanding the different onset and developmental theories and different approaches to treatment.

CD 455 Voice Disorders.

Prerequisite: CD 225, CD 226, CD 244, CD 275, CD 308, and minimum 2.8 GPA.

This course is designed to provide basic knowledge and skills needed for the evaluation and treatment of voiced language disorders.

COMMUNITY HEALTH SCIENCES (CHS)

College of Community Health Sciences

CHS 320 Rural Health Scholars Field Work/Seminars. 3 hours.

Field work opportunities available only to students who have completed rural health scholar seminars or agrimedicine research in the Department of Behavioral and Community Medicine.

CHS 321 Rural Health Scholars II. 3 hours.

Prerequisite: CHS 320.

Advanced field work for students who have completed CHS 320. Weekly seminars enhance the learning experience.

CHS 330 Issues in Contemporary Medicine (also UH 330). 3 hours.

Course is designed in lecture format to acquaint students engaged in premedical studies with the major patterns of illness in the U.S. and with the medical disciplines that treat those diseases. Enrollment limited to junior and senior premed students.

CHS 400 Rural Environmental/Occupational Health. 3 hours.

Prerequisite: Permission of the Rural Medical Scholars Program director.

Designed to help the student recognize environmental and occupational health hazards in the rural setting, the effects of exposure to these hazards, and preventive measures that should be taken to avoid them.

CHS 420 Basic Epidemiology. 3 hours.

Prerequisite: Permission of the instructor.

A basic course in epidemiology designed for students in health or related fields which points out the population-oriented approach to epidemiology and shows how the methodology can be used to develop knowledge of disease etiology with application to the entire spectrum of health service.

CHS 422 Community Clinical Process. 3 hours.

Prerequisite: Permission of the Rural Medical Scholars Program director.

A combination of scheduled sessions and field work. Field work includes visiting with assigned rural advisor, completing a rural community assessment, and assisting with community health screenings and education programs.

CHS 423 Independent Study in Preventive/Community Medicine.

3-6 hours.

An individual learning experience that involves the student in documentation of, evaluation of, and/or strategic planning for solving a community health problem.

CHS 425 Biostatistics. 3 hours.

Prerequisite: Permission of the instructor.

Statistical methods and concepts particularly appropriate for biomedical research and health-related subjects.

CHS 427 Health Policy and Planning. 3 hours.

Prerequisite: Advanced standing in a program preparing for a career in the human management, life, or social sciences and/or permission of the instructor.

A problem-based learning seminar that introduces the student to the field of health policy and planning.

CHS 432 Community Clinical Process II. 3 hours.

Prerequisite: CHS 422.

Continuation of studies from CHS 422, including introduction to basic physical assessment techniques and continuation of a community project.

COMPUTER-BASED HONORS (CBH)

Dr. Shane Sharpe, Director

Office: 271 Nott Hall

CBH 101 and CBH 102 Freshman Seminar. 4 hours each semester.

Taken by first-year students in the Computer-Based Honors Program, this course provides an accelerated introduction to computer hardware and software. Open only to students admitted to the Computer-Based Honors Program.

CBH 201 and CBH 202 Sophomore Seminar. 3 hours each semester.

Prerequisites: CBH 101 and CBH 102.

In the sophomore, junior, and senior CBH seminars, students work as undergraduate research assistants with faculty members on computer-oriented research projects.

CBH 301 and CBH 302 Junior Seminar. 3 hours each semester.**CBH 451 and CBH 452 Senior Seminar.** 3 hours each semester.

COMPUTER SCIENCE (CS)

Professor David W. Cordes

Office: 101 Houser Hall

Department Head

CS 102 Microcomputer Applications. (3-0) 3 hours.

Familiarization with Windows, fundamental and intermediate word processing commands, spreadsheet applications, and database management. (Credit for this course will not be applied to the requirements for a computer science degree.)

CS 104 The Science of Programming. (3-0) 3 hours.

This course is designed for students who wish to have some programming experience before entering CS114. Topics include: literals, variables, expressions, functions, curried functions, objects, writing and saving programs, organizing programs and data.

CS 120 Business Programming I (3-0) 3 hours.

Prerequisite: MATH 112.

An introduction to programming. The topics include procedural information enabled problem formulation, design and development of business computer solutions. This course concentrates on the construction and testing of individual programs.

CS 121 The Discipline of Computing (1-0) 1 hour.

Prerequisite: None.

An introduction to the discipline of computing designed for students who are planning to pursue a major in computer science.

CS 150 Programming I. (2-0) 2 hours.

Prerequisites: MATH 112

An introductory course on programming. Language concepts: primitives, variables, sequences, functions, selection, iteration, and recursion. Software engineering concepts: testing and debugging. System concepts: directories, paths, files, and text editing.

CS 160 Computer Science Concepts. (0-2) 1 hour.

An introduction to Computer Science concepts using Alice and robots.

CS 202 Introduction to the Information Highway. (3-0) 3 hours.

Prerequisite: CS 102 or equivalent.

Introduces the student to the basic principles of the information highway. Students will be exposed to different network information tools such as electronic mail, network news, gophers, the World Wide Web, Mosaic, and commercial information services.

CS 205 Web Site Design. (3-0) 3 hours.

Prerequisite: CS 202 or equivalent.

A course designed to teach Web site design principles and implementation techniques. This class is not cross-listed as a graduate course.

CS 220 Business Programming II (3-0) 3 hours.

Prerequisite: CS 120.

This course builds on the concepts and expertise gained in data driven problem solving and computer programming. It explores problem formulation, solution designing and object-oriented construction of business applications. This course concentrates on problem decomposition, design, construction and testing of individual programs.

CS 250 Programming II. (2-0) 2 hours.

Prerequisites: CS 150

A continuation of CS 150. Language concepts: modules, encapsulation, classes and objects, and inheritance.

Software engineering concepts: unit tests and using a dedicated debugger.

System concepts: scripting and compiling.

CS 260 Foundations of Computer Science. (3-0) 3 hours.

Prerequisites: CS 150, CS 160

An introduction to the science of Computer Science. Topics include: introduction to complexity, O(n) searching, sorting, design strategies, problem solving, arrays, singly-linked lists, stacks, and creating and searching binary search trees.

CS 285 Microcomputer Applications II. (3-0) 3 hours.

Prerequisite: CS 102 or equivalent.

Use of spreadsheets and other environments to build business and scientific applications. Course includes development of problem-solving skills and an introduction to the object-oriented paradigm.

CS 302 Computerized Database Systems. (3-0) 3 hours.

Prerequisite: CS 102 or equivalent.

An introduction to commercial database packages. Students will gain familiarity with both creating and using standard database software packages to solve real-world problems.

CS 315 Software Engineering (3-0) 3 hours.

Prerequisites: CS 260 and (CS 250 or ECE 285)

Introduction to software engineering, the software crisis, program life cycle, software systems analysis techniques, software modeling, theory and practice of design, program testing methodologies, programmer team organization, and program verification and synthesis.

CS 340 Legal and Ethical Issues in Computing. (3-0) 3 hours.

Prerequisites: CS 102

By way of case study, the course finds and frames issues related to legal and ethical issues in computing. Topics include privacy, free speech, intellectual property, security, and software reliability and liability issues.

CS 350 Programming III Java. (2-0) 2 hours.

Prerequisites: CS 250

Programming using a production language. Language concepts: Object-oriented programming and design. Software engineering concepts: managing multi-module projects and automated program testing.

CS 351 Programming III C++. (2-0) 2 hours.

Prerequisites: CS 250

Programming using a production language. Language concepts: Object-oriented programming and design. Software engineering concepts: managing multi-module projects and automated program testing.

CS 352 Programming III C. (2-0) 2 hours.

Prerequisites: CS 250

Programming using a production language. Language concepts: Object-oriented programming and design. Software engineering concepts: managing multi-module projects and automated program testing.

CS 357 Data Structures. (3-0) 3 hours.

Prerequisite: CS 260, CS 250 or CBH 102, MATH 125

Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching, and dynamic storage allocation.

CS 360 Data Structures and Algorithms (4-0) 4 hours.

Prerequisite: CS 250 and CS 260 and MATH 301.

Prerequisite with concurrency: CS 350 or CS 351 or CS 352

Basic concepts of data, linear lists, strings, arrays, trees, graphs, and the related storage of representations and structures. Applications include expression conversion, sorting, searching, and dynamic storage allocation.

CS 375 Programming Using a Visual Environment. (3-0) 3 hours.

Prerequisite: CS 250.

Design and construction of programs using the Visual Basic programming environment. This course is designed for students majoring in MIS.

CS 385 Prototyping Interfaces Using a Visual Programming Environment. (3-0) 3 hours.

Prerequisite: CS 150, CS 202, CS 226, CS 285, or CS 302.

Design and construction of standard user interfaces using a visual programming environment. Course includes the prototyping of several standard user interface mechanisms.

CS 403 Programming Languages. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352 and CS 360.

Formal study of programming language specification, analysis, implementation, and run-time support structures; organization of programming languages with emphasis on language constructs and mechanisms; and study of non-procedural programming paradigms.

CS 407 Software Interface Design. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 and CS 360, or MIS 320.

Basic concepts of the human-computer interface, including human diversity, user mental models, menus, command languages, documentation, error messages, anthropomorphisms, and software psychology.

CS 415 Software Design and Development. (2-3) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352 and CS 360 or MIS 320.

Introduction to software engineering: the software crisis, program life-cycle, software systems analysis techniques, theory and practice of design, structured techniques, program testing methodologies, programmer team organization, and program verification and synthesis.*

CS 425 Systems Programming. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

Study of the basic concepts of systems programming with an emphasis on techniques utilized in the management of Unix-based operating systems.

CS 426 Introduction to Operating Systems. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

Study of basic operating system concepts with an emphasis on memory, processor, device, and information management.

CS 434 Compiler Construction. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

Syntax and semantics of procedure-oriented languages and translation techniques used in their compilation; includes computer implementation.

CS 435 Computer Graphics. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

Fundamental concepts dealing with the display of graphic information on semi-interactive storage tube displays. The course includes techniques for hidden line display, hidden line removal, and two- and three-dimensional transformation.

CS 438 Computer Communications and Networks (also ECE 406). (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

The study of the issues related to computer communications. Topics include

physical topologies, switching, error detection and correction, routing, congestion control, and connection management for global networks (such as the Internet) and local area networks (such as Ethernet). In addition, network programming and applications will be considered.

CS 440 Ethical and Societal Issues in Computer Science. (3-0)

3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, ECE 383, and (COM 123 or GES 131).

The course looks at social, legal, and ethical aspects of computing, and presents the student with an overall framework of computing-related disciplines and culture. Includes computer crime issues (hackers, viruses, worms); other legal issues (software patents, copyrights, product liability, etc.); and computing risks and privacy implications.*

CS 457 Database Management Systems. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

Constituent parts of database management (design, creation, and manipulation of databases), client-server, relational, and object-oriented data models.*

CS 460 Introduction to Autonomous Robotics. (3-0) 3 hours.

Prerequisites: CS 426 and CS 360.

Presents and addresses issues involved in implementing robot control software including motion, kinematics, simulation testing, sensor incorporation, and unmodeled factors.

CS 465 Artificial Intelligence. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

Introduction to the theory of games and to artificial intelligence, with emphasis on heuristic programming. Design of games, recognition of patterns, and proving of theorems.

CS 466 Information Systems. (3-0) 3 hours.

Prerequisites: Two courses chosen from CS 150, CS 202, CS 205, CS 226, CS 285, CS 302, CS 313, CS 326, and CS 385.

Design and implementation of information systems, and analysis of data- and information-processing concepts. Includes information systems developing methodology. (Credit for this course will not be applied to the requirements for a computer science degree.)

CS 470 Introduction to Computer Algorithms. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, ECE 383, and MATH 301.

Construction of efficient algorithms for computer implementation.

CS 475 Formal Languages and Machines. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, ECE 383, and MATH 301.

Regular expressions and finite automata. Context-free grammars and pushdown automata. Recursively enumerable languages and Turing machines. The Chomsky hierarchy.

CS 480 Computer Simulations. (3-0) 3 hours.

Prerequisites: CS 350 or CS 351 or CS 352, CS 360, and ECE 383.

Introduction to simulation and use of computer simulation models; simulation methodology, including generation of random numbers and variates, model design, and analysis of data generated by simulation experiments.

CS 491 Special Topics. Variable credit.

Research course designed to meet the needs of individual students.

CS 492 Special Problems (Area). (3-0) 3 hours.

Reading and research course designed to meet the needs of individual students. This course cannot be used as a required 400-level computer science elective.

CS 495 Capstone Computing (1-5) 3 hours.

Prerequisites: CS 315 and CS 360 and (CS 350 or CS 351)

A culminating capstone project course that integrates the skills and abilities throughout the curriculum into a comprehensive design and development experience for computer science majors.*

CS 499 Research (0-0-0) 3 hours.*

*Writing proficiency is required for a passing grade in this course.

COMPUTERS AND APPLIED TECHNOLOGY (CAT)

Professor Margaret Rice, Coordinator

Office: 315F Graves Hall

CAT 100 Computer Concepts and Applications. 3 hours.

Fundamentals of computer use in education, including software applications, keyboard functions, peripherals, utilities, and software.

CAT 200 Computer Education Applications. 3 hours.

Introduces computer applications relating to problem solving, critical thinking, instruction, data management, and Web page development.

CAT 250 Computer Education: Curriculum Development. 3 hours.

Prerequisite: CAT 200.

Utilizing computer technology and computer applications in instruction.

CONSUMER SCIENCES (CSM)

Professor Milla D. Boschung, Department Head

Office: 212 Adams Hall

CSM 101 Consumers and Technology. 3 hours.

The course features the use of basic applications of the computer, including word processing, database, electronic presentation, Internet searching, and fundamental computer maintenance. Students may not receive credit for both CSM 101 and CS 102.

CSM 201 Individual and Family Resource Management. 3 hours.

Management of human, material, and environmental resources to accomplish value-based goals. Highlights importance of decision making to achieve satisfaction and improve quality of life across the family life cycle. Offered in the fall semester.

CSM 204 Introduction to Personal Financial Planning. 3 hours.

The course presents financial planning within the context of the family life cycle and the consumer decision-making framework. It provides an overview of topics such as family financial goal setting, budgeting, risk management, savings, and investments.

CSM 240 Household Equipment. 3 hours.

Principles of selection, use, and care of household equipment. CSM 240 is a consumer-oriented course that emphasizes how to make wise purchasing decisions. Offered irregularly.

CSM 381 Consumer Marketing Management. 3 hours.

Principles of consumer-oriented marketing management with emphasis on consumer decision-making theory and practice.

CSM 390 Field Experience. 1 to 6 hours.

Prerequisites: Junior or senior standing in the department and/or permission of the department head. Supervised experiences in the areas of consumer affairs or family financial planning with government, business, or industry.

CSM 400 Personal Insurance Planning and Management. 3 hours.

Prerequisite: CSM 204 or permission of instructor.

Survey of myriad of personal risks facing consumers and families throughout the life cycle. Emphasis is placed on the fundamentals of risk management. Includes a comprehensive study of insurance products.

CSM 401 Consumer Protection. 3 hours.

For juniors and seniors only. Laws and agencies affecting the consumer's well-being, sources of consumer information, discussion of current consumer issues. Writing proficiency is required for a passing grade in this course.

CSM 403 Consumer Economics. 3 hours.

Prerequisites: EC 110 and EC 111.

The role of the consumer in the economy. Economic analysis of market and nonmarket consumption activities, incorporating relevant social, psychological, political, and ecological considerations. Offered in the spring semester.

CSM 404 Personal Investment Planning and Management. 3 hours.

Prerequisite: CSM 204 or permission of the instructor.

Concepts and techniques related to family financial investments.

CSM 405 Public Policy: Family and Community Resources. 3 hours.

Identification of resources available to families in and out of their immediate environment. The course includes an externship with a community service agency. Offered in the spring semester.

CSM 406 Consumer Management Quality Assurance. 3 hours.

Provides an in-depth coverage of the primary theories and methods necessary for quality assurance in a wide range of organizational settings.

CSM 407 Consumer Quality Management Facilitation Skills. 3 hours.

Provides a comprehensive study of facilitation skills necessary to lead an organization in continuous improvement.

CSM 408 Consumer Quality Management Skills. 3 hours.

Provides an in-depth analysis of management systems as a method for organizing and leading business, educational, and health care institutions. The course will cover the primary issues related to management systems.

CSM 410 Personal Retirement Planning and Employee Benefits. 3 hours.

Prerequisite: CSM 204 or permission of instructor.

Fundamentals for personal retirement planning and the selection of employee benefits.

CSM 415 Customer Service. 3 hours.

An in-depth study of the functions and structures of customer relations as it relates to business and government agencies. Analysis of consumer needs, complaints, and education.

CSM 420 Personal Estate Planning. 3 hours.

Prerequisite: CSM 204 or permission of instructor.

Techniques of personal estate planning within the family life cycle.

CSM 425 Consumer Conflict Resolution. 3 hours.

A study of the various techniques of conflict resolution in consumer affairs.

CSM 427 Consumer Mediation, Negotiation & Management. 3 hours.

Advanced I Prerequisite: CSM 425

An advanced exploration of the dynamics and impact of communication and difference on conflict mediation, negotiation, and management. Students will build on previous knowledge to expand understanding of human difference on the ability to work through conflict situations.

CSM 428 Consumer Conflict Mediation, Management, and Negotiation/Workplace Law. 3 hours.

Prerequisites: None

The course explores the fundamentals of workplace law as a component to mediating, managing, and negotiating conflict in the workplace. The intention of the course is not to prepare students to practice law. The intention of the course is to train students to maximize their effectiveness as employees, managers, and leaders in the workplace.

CSM 430 Family and Consumer Law. 3 hours.

The study of family and consumer law in specific issues of marriage, parent-child relationships, divorce, and the economic consequences of divorce, as well as consumerism and a general understanding of legal terms, resources, the legal system, and adversarial proceedings.

CSM 437 Developing the Leader Within. 3 hours.

An in-depth look at leadership principles, qualities, styles, and models with a focus on developing leadership skills and potential within the individual students. Designed to assist students in identifying opportunities for improvement.

CSM 441 Consumer Communications. 3 hours.

Prerequisite: CSM 101 or CS 102. Open only to students in the College of Human Environmental Sciences.

Principles, methods, techniques, and resources used in developing, presenting, and evaluating a complete consumer communication program. Writing proficiency and use of the computer are required for a passing grade in this course.

CSM 445 Microcomputers in Consumer Services. 3 hours.

Prerequisite: CSM 101 or CS 102. Open only to students in the College of Human Environmental Sciences.

Encompasses the collection of technical skills and scientific methodologies which can be used to create computer-based solutions to real problems encountered in consumer services.

CSM 447 Digital Tools. 3 hours.

Prerequisite: CSM 101 or CS 102. Competencies must be established by completing online modules.

Provides students with skills to live and work in a digital environment by developing technological skills in use and application of computers, Internet, and other digital tools.

CSM 454 Personal Income Tax Management and Planning. 3 hours.

Prerequisite: CSM 204 or permission of instructor.

An analysis of personal income tax management and planning as it relates to consumers and families throughout the life cycle.

CSM 458 Personal Financial Planning: Using Spreadsheets for Financial Decision Making. 3 hours.

Prerequisites: CSM 204 or RHM 474, or AC 210. Open only to students in the College of Human Environmental Sciences.

The focus of this course is to develop a working knowledge of Microsoft Excel® as it may be used to analyze problems related to personal financial planning. The course emphasizes life-cycle planning and computer literacy. The course is designed to help students in becoming better prepared for the actual workplace environment.

CSM 459 Techniques of Consumer Counseling. 3 hours.

Fundamentals of counseling, communication, and ethics.

CSM 460 Personal Financial Planning and Counseling Techniques.

3 hours.

Prerequisites: CSM 204, CSM 404, CSM 410, CSM 420, and CSM 454.

Focuses on the development of skills required to gather adequate and accurate financial information, to analyze financial situations, and to devise effective solutions for financial problems. Includes evaluation of the role and usefulness of computer software in financial advising. Offered in the spring semester.

CSM 462 Professionalism in Consumer Sciences. 1 hour.

This course takes an in-depth look at the professional side of careers in Consumer Sciences. Students may accumulate 1-6 credits in the course over a six-semester period. Experiential activities, guest speakers, rotating faculty lectures and student organization meetings and projects will provide students the opportunity to learn about and practice the traits, skills, and abilities needed for a successful career in the areas of consumer affairs and financial planning.

CSM 475 Entrepreneurship in Human Environmental Sciences.

3 hours.

A study of home-based businesses taught from the perspective of theory and application in family resource management.

CSM 480 E-Commerce at Human Environmental Sciences. 3 hours.

Offers sound advice and vital practical help on developing an idea into a business on the Internet, addressing areas of specialization in human environmental sciences.

CSM 486 Consumer/Employee Assistance Programs. 3 hours.

Survey of the theory and practice of the Employee Assistance Program (EAP). Six content areas will assist students in identifying their strengths and weaknesses in relation to the content areas.

CSM 490:491:492:493 Directed Individual Studies. 1 to 3 hours.

Prerequisite: Permission of the department chairperson.

Open to qualified undergraduates with a grade point average of 2.0 or higher. Individualized work may be selected in the areas of consumer affairs, consumer economics, and financial planning and counseling.

COUNSELOR EDUCATION (BCE)

Professor S. Allen Wilcoxon

Office: 315 Graves Hall

Program Coordinator

BCE 101 Freshman Seminar. 2 hours.

This course for first-year UA students provides an introduction to the nature of higher education and to the function, resources, and activities of The University of Alabama. This course is designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills. The ultimate goal of the course is to equip each student with the confidence and basic skills necessary for degree attainment.

BCE 300 Spring Break—Alternatives in Education of Service Learning.

3 hours.

Prerequisite: Permission of the instructor.

An academic service learning course focusing on critical thinking and problem solving, community responsibility, and multicultural awareness via direct service and classroom instruction. Offered only spring semester.

BCE 301 Introduction to Counseling. 3 hours.

A survey course featuring a comprehensive examination of the history, functions, and related issues for the practice of counseling in school, agency, and rehabilitation settings.

BCE 411 Guidance for Teachers. 3 hours.

Prerequisite: Junior or senior standing.

The sociological, psychological, and philosophical bases for guidance in schools are presented. The course is offered only through the Office of Independent Study in the College of Continuing Studies, and is appropriate for both elementary and secondary teachers. Students majoring in guidance may not receive credit for this course.

CRIMINAL JUSTICE (CJ)

Office: 432-C Farrah Hall

All upper-level courses in criminal justice (courses numbered at the 300 and 400 level) are open to criminal justice majors and minors only. CJ 100 is a prerequisite for all 300- and 400-level courses.

CJ 100 Introduction to Criminal Justice. 3 hours.

An overview of the criminal justice system with emphasis on the roles and problems of law enforcement, courts, and correctional components. CJ 100 is a prerequisite for all 300- and 400-level criminal justice courses.

CJ 220 Law Enforcement. 3 hours.

Development of law enforcement; organization and jurisdiction of local, state, and federal law enforcement agencies; and functions of police officers.

CJ 221 Private Security. 3 hours.

Organization and management of the security function in industry, business, and government. Exploration of methods to protect personnel, facilities, and other major assets: loss prevention, control, and risk management.

CJ 240 Juvenile Delinquency. 3 hours.

Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.

CJ 250 Judicial Process. 3 hours.

A general overview of U.S. judicial systems, including recent innovations and future trends.

CJ 270 Corrections. 3 hours.

A general overview of U.S. corrections, jails and prisons, institutional procedures, recent innovations, and the future of corrections.

All of the following criminal justice courses require CJ 100 Introduction to Criminal Justice in addition to other prerequisites specified.

CJ 300 Survey of Criminology Theories. 3 hours.

Study of traditional and modern explanations of crime and criminality.

CJ 303 Racial Minorities, Criminality, and Social Justice. 3 hours.

Study of the role played by racial minorities at each stage of the criminal justice system. Special attention is devoted to theories and measurement of minority crimes and race relations and to the treatment of minorities by law enforcement officers, courts, and corrections.

CJ 306 History of Crime and its Treatment. 3 hours.

Examination in historical sequence of the perspectives on and methods of crime control, from the traditional to the modern.

CJ 321 Criminal Investigation. 3 hours.

Fundamentals of criminal investigation from crime scene searches to follow-up investigations and case preparation.

CJ 330 Organization and Management Concepts of Criminal Justice. 3 hours.

Formal organization theory and personnel administration, with emphasis on law enforcement agencies.

CJ 380 Research Methods. 3 hours.

Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problem of research and policy dimensions of both direct and applied approaches.

CJ 381 Statistics (same as SOC 301). 3 hours.

Prerequisite: MATH 110 or MATH 112.

Statistical methods in criminal justice, including central tendency and dispersion, tests of significance, and measures of association.

CJ 395 Internship. 6–12 hours.

An opportunity for students to conduct career exploration and build a record of experience in the field.

CJ 404 Health and Crime (same as SOC 404). 3 hours.

The health consequences of social deviance and the impact of criminalization for individual and societal well-being. Seminar discussions cover the criminalization of mental and physical illness and illnesses arising from criminal behavior and incarceration.

CJ 410 Community-Based Corrections. 3 hours.

Study of intermediate punishments and alternatives to incarceration.

CJ 420 Seminar in Law Enforcement. 3 hours.

Prerequisite: CJ 220 or permission of the instructor.

Examines the philosophical basis of law enforcement and traces the development of the law enforcement function.

CJ 421 Crime Prevention and Control. 3 hours.

Survey of crime control models.

CJ 430 Criminal Justice Organizational Behavior. 3 hours.

Prerequisite: CJ 330 or permission of the instructor.

Study of criminal justice administration emphasizing theories of administrative behavior, aspects of organizational behavior, role and leadership theories, decision making, and communication models.

CJ 440 Seminar in Juvenile Justice. 3 hours.

Organization, functions, and jurisdiction of the juvenile justice system: processing and detention of juveniles, juvenile statutes, juvenile court procedure, and case disposition.

CJ 450 Seminar in the Judicial Process. 3 hours.

Prerequisite: CJ 250 or permission of the instructor.

Examines the philosophical basis of the American legal system and traces the development of the judicial process.

CJ 460 Criminal Law I. 3 hours.

Classification and analysis of selected areas of the substantive law of crimes, including basic principles of criminal law and crimes against the person and property.

CJ 461 Criminal Law II. 3 hours.

Prerequisite: CJ 460 or permission of the instructor.

General principles and theories of criminal procedure, including concepts of due process, arrest, search and seizure, wiretapping, lineups, and other recent developments.

CJ 462 Criminal Evidence. 3 hours.

Prerequisite: CJ 460 or permission of the instructor.

The law governing the proof of disputed issues of fact in trials and common law. Coverage includes burden of proof, presumptions, judicial notice, and the functions of the judge and jury.

CJ 470 Seminar in Corrections. 3 hours.

Prerequisite: CJ 270 or permission of the instructor.

History, analysis, and evaluation of American correctional institutions, including the sociology of confinement and reform movements within the system.

CJ 482 Criminal Justice Information Systems. 3 hours.

Critical study of and original research in data processing applications of use in criminal justice; technological and other developments, equipment and methods, and staff studies.

CJ 483 Law and Society (same as SOC 450). 3 hours.

Law as an instrument of social control, the functions and limitations of law, and the machinery of law as a part of the larger society.

CJ 490 Special Topics in Criminal Justice. 3 hours.

Examination of selected problems and issues in criminal justice. May be taken twice, provided the topic is different.

CJ 498 Honors Thesis. 3 hours.

Prerequisites: Consult the department.

The use of the scientific method of inquiry to study criminal justice and criminology issues.

CJ 499 Independent Study in Criminal Justice. 1 to 6 hours.

Prerequisite: Permission of the instructor.

Research under faculty supervision in any area of interest to the student.

CROATIAN (CROA)

Office: 200-D B.B. Comer Hall

CROA 101 Elementary Croatian I. 3 hours.

Contemporary Croatian—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

CROA 102 Elementary Croatian II. 3 hours.

Prerequisite: CROA 101 or consent of CLC director.

Contemporary Croatian—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audio visual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

CROA 201 Intermediate Croatian I. 3 hours.

Prerequisite: CROA 102 or consent of CLC director.

Continuation of Croatian language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

CROA 202 Intermediate Croatian II. 3 hours.

Prerequisite: CROA 201 or consent of CLC director.

Continuation of CROA 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

CURRICULUM AND INSTRUCTION (CIE)

Professor Miguel Mantero
Department Head

Office: 201 Graves Hall

CIE 420 Modern Middle-School Programs. 3 hours.

CIE 477 Second Language Acquisition. 3 hours.

Recent research and literature on how children and adults acquire a second language in natural as well as classroom settings; the role of learning in second language acquisition.

CIE 479 Teaching English as a Second Language. 3 hours.

Prerequisite: Permission of the instructor.

Theories of language learning, acquiring a second language, and current linguistic theories. Methods and techniques are presented and demonstrated.

CIE 480 Methods in Teaching Foreign Languages. 3 hours.

Prerequisite: Admission to TEP.

Corequisite: CSE 489.

Theories, methods, techniques, and essential media for teaching foreign languages effectively.

CIE 497 Internship in Foreign Language Education. 9–12 hours.

Prerequisites: Senior standing, admission to the teacher education program, teaching methods course in the major, and the minimum GPA as required by the certification program.

Observation and teaching of the major subject in an elementary and secondary school. Offered in the fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experiences. Formal application meetings are held and their times will be posted in Graves Hall and announced in the *Crimson White* prior to the meetings.

CZECH (CZE)

Office: 200-D B.B. Comer Hall

CZE 101 Elementary Czech I. 3 hours.

Contemporary Czech—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

CZE 102 Elementary Czech II. 3 hours.

Prerequisite: CZE 101 or equivalent.

Contemporary Czech—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.

CZE 201 Intermediate Czech I. 3 hours.

Prerequisite: CZE 102 or equivalent.

Continuation of Czech language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

CZE 202 Intermediate Czech II. 3 hours.

Prerequisite: CZE 201 or equivalent.

Continuation of Czech 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

DANCE (DN)

Office: 249 Rowand-Johnson Hall

Technique courses (T) may be repeated once for credit, with permission of the instructor.

DN 101 (T) Beginning Ballet. 2 hours.

A studio course in classical ballet at the beginning level.

DN 110 (T) Introduction to Dance Styles. 2 hours.

Introduction to ballet, modern, and jazz dance through theory and practice at the beginning level.

DN 111 (T) Modern Dance Technique I. 3 hours.

Prerequisite: Dance major.

This course will introduce the basics of modern dance techniques.

DN 121 (T) Ballet Technique I-A. 3 hours.

Prerequisite: Dance major.

A studio course in classical ballet for first year dance majors. Offered in the fall semester.

DN 122 (T) Ballet Technique I-B. 3 hours.

Prerequisite: Dance major.

The development of theory and practice of classical ballet for first-year dance majors. Offered spring semester.

DN 142 World Dance. 2 hours.

An introduction to dance movement as influenced by various cultures.

DN 151 (T) Jazz Technique I. 3 hours.

Prerequisite: Dance major.

Introduction to jazz dance technique and style through dance studio work.

DN 200 (T) Special Topics. 3 hours.

Prerequisite: Permission of instructor.

Investigation of dance theories and principles.

DN 210 (T) Dance Styles II. 3 hours.

Prerequisite: DN 110.

This course will include study of various dance styles at the intermediate level. The styles will represent dance forms from theatrical productions.

DN 211 (T) Modern Dance Technique II-A. 3 hours.

Prerequisite: Dance major.

A studio course in modern dance technique at the intermediate level.

DN 212 (T) Modern Dance Technique II-B. 3 hours.

Prerequisite: Dance major.

A studio course in modern dance technique at the advanced intermediate level.

DN 221 (T) Ballet Technique II-A. 3 hours.

Prerequisite: DN 101 or DN 121 or permission of instructor.

Development of classical ballet technique, and performance quality at the intermediate level.

DN 222 (T) Ballet Technique II-B. 3 hours.

Prerequisite: DN 221 or permission of instructor.

Development of the classical theory and practice of ballet, at the intermediate level.

DN 240 Choreography I. 3 hours.

Prerequisite: Dance major.

Basic exploration of the rhythmic and spatial elements in the development of movement phrases and choreographic dance studies.

DN 251 (T) Jazz Technique II-A. 3 hours.

Prerequisite: Dance major.

A studio course in jazz dance technique at the intermediate level.

DN 252 (T) Jazz Technique II-B. 3 hours.

Prerequisite: Dance major.

A studio course in jazz dance technique at a more advanced intermediate level.

DN 265 Anatomy/Kinesiology for Dance. 3 hours.

Prerequisite: Dance major.

Lecture/studio course covering the basics of the musculoskeletal system and dance kinesiology.

DN 300 (T) Special Topics. 1 to 3 hours.

Prerequisite: Dance major or permission of instructor.

Study of dance theories and principles for performance, choreography or pedagogy.

DN 310 (T) Dance Styles III. 3 hours.

Prerequisite: DN 110.

A studio course in various dance styles used for concert dance or theatrical productions.

DN 311 (T) Modern Dance Technique III-A. 3 hours.

Prerequisite: Dance major.

Development of modern dance technique at the advanced level.

DN 312 (T) Modern Dance Technique III-B. 3 hours.

Prerequisite: Dance major.

Development of advanced modern dance technique, preparing the student for professional work.

DN 321 (T) Ballet Technique III-A. 3 hours.

Prerequisite: Dance major.

Advanced ballet technique including ladies' pointe work and men's technique.

DN 322 (T) Ballet Technique III-B. 3 hours.

Prerequisite: Dance major.

Continuation of advanced ballet technique including ladies' pointe work and men's technique.

DN 340 Choreography II. 3 hours.

Prerequisite: DN 240 and dance major.

Exploration in more complex choreographic forms and compositions.

DN 352 (T) Jazz Technique III. 3 hours.

Prerequisite: DN 251 or DN 252 and dance major.

Development of advanced jazz dance technique preparing the student for professional work.

DN 380 Independent Study in Dance. 3 hours.

Prerequisite: Permission of the instructor.

DN 381 Independent Study in Dance. 3 hours.

Prerequisite: Permission of the instructor.

DN 400 (T) Special Topics. 3 hours.

Prerequisite: Audition only.

Prepare dancers for a professional career in dance performance through the rehearsal process of learning and performing, ballet, modern and jazz dance repertoire.

DN 403 Approaches to Dance Instruction. 3 hours.

Prerequisite: DN 265 and dance major.

A course developing techniques for teaching of ballet, modern, and jazz dance styles.

DN 411 (T) Modern Dance Technique IV-A. 3 hours.

Prerequisite: DN 311 or DN 312 and dance major.

Continued development of modern dance technique at the advanced level.

DN 412 (T) Modern Dance Technique IV-B. 3 hours.

Prerequisite: DN 311 or DN 312 and dance major.

Continued development of advanced modern dance technique, preparing the student for professional work.

DN 421 (T) Ballet Technique IV-A. 3 hours.

Prerequisite: DN 321 or DN 322 and dance major.

Advanced ballet technique including rehearsal and performance of ballet variations in preparation for professional work.

DN 422 (T) Ballet Technique IV-B. 3 hours.

Prerequisite: DN 321 or DN 322 and dance major.

Continued development of ballet technique and variations preparing the student for professional work.

DN 440 Choreography III. 3 hours.

Prerequisite: DN 340 and TH 324.

A study and practice of choreographic composition at the advanced level including all aspects of production. Offered on demand.

DN 452 (T) Jazz Technique IV. 3 hours.

Prerequisite: DN 352 and dance major.

Advanced jazz dance technique preparing the student for professional work.

DN 470 History of Dance I. 3 hours.

Prerequisite: Dance major.

The history of dance with an emphasis on the pre-classical and classical dance styles.

DN 471 History of Dance II. 3 hours.

Prerequisite: Dance major.

The history of dance with an emphasis on 20th century and contemporary dance styles.

DUTCH (DUT)

Office: 200 B.B Comer Hall

DUT 101 Elementary Dutch I. 3 hours.

Contemporary Dutch—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Native speakers

of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

DUT 102 Elementary Dutch II. 3 hours.

Prerequisite: DUT 101 or equivalent.

Contemporary Dutch—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.

DUT 201 Intermediate Dutch I. 3 hours.

Prerequisite: DUT 102 or equivalent.

Continuation of Dutch language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

DUT 202 Intermediate Dutch II. 3 hours.

Prerequisite: DUT 201 or equivalent.

Continuation of DUT 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

ECONOMICS (EC)

Dr. Billy P. Helms, Department Head

Office: 200 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours). A student enrolled in the College of Arts and Sciences who has declared a major or minor in economics may enroll in EC 308 and/or EC 309 prior to earning 61 hours.

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

EC 110 and EC 111 or their equivalents are prerequisites for all economics courses numbered 300 or higher.

A grade of "C-" or higher is required in EC 308 and EC 309 for all classes for which they serve as prerequisites.

Intermediate micro- and macroeconomic theory (EC 308 and EC 309 or their equivalents) are prerequisites for all graduate coursework in economics except MBA-designated courses.

EC 110 Principles of Microeconomics. 3 hours.

Prerequisite: MATH 100 or equivalent.

Introduction to microeconomic analysis concentrating on consumer and producer behavior, competitive and imperfect markets, public policy and regulation, and income distribution.

EC 111 Principles of Macroeconomics. 3 hours.

Prerequisite: EC 110 or equivalent.

Introduction to macroeconomic analysis concentrating on national income, price levels, employment, monetary and fiscal policies, and international trade and development.

EC 210 Microeconomic Policy Analysis. 3 hours.

Prerequisite: EC 110 or equivalent.

This course uses economic analysis to examine a range of public policy issues.

EC 211 Macroeconomic Policy Analysis. 3 hours.

Prerequisite: EC 111 or equivalent.

Building on the macroeconomics background of EC 111, students will consider current national and international economic problems and issues.

EC 308 Intermediate Microeconomics. 3 hours.

Prerequisite: MATH 121 or MATH 125 or equivalent.

Examination of the theory of price and the theory of resource allocation. Topics include demand theory, production and cost functions, pricing and output under competitive and noncompetitive conditions, resource markets, and rudiments of general equilibrium analysis.

EC 309 Intermediate Macroeconomics. 3 hours.

A study of the theoretical framework underlying income, employment, and growth analysis.

EC 389 Computerized Management Information Systems (also FI 389).

3 hours.

Prerequisites: AC 210, CS 102, FI 302, and ST 260.

Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Students may not receive credit for EC 389 and FI 389.

EC 400 Analysis of Economic Conditions at the Micro/Macro Levels.

3 hours.

Prerequisites: EC 110, EC 111, ST 260, OM 300, and FI 302.

Not open to majors in economics and finance.

Uses basic economic theory to assess real-world business and economic conditions at the micro and macro levels.

EC 410 Law and Economics. 3 hours.

Prerequisite: Permission of the instructor or EC 308 with a grade of "C-" or higher.

This course will use the tools of economic analysis to analyze public policy issues and to explore the intersections between the law and economics.

EC 412 Industrial Organization. 3 hours.

Prerequisite: EC 308 with a grade of "C-" or higher.

Study of the various types of industry structure, conduct, and performance; business strategies; and policy alternatives. Emphasizes case studies from the major types of industry.

EC 413 Economic Forecasting and Analysis. 3 hours.

Prerequisites: ST 260, EC 308, and EC 309 with grades of "C-" or higher.

Survey of the analytical techniques used by economists to forecast the macro and micro levels of economic activity and the effects of public policy on the economy.

EC 416 Monetary Theory and Policy (also FI 416). 3 hours.

Prerequisite: EC 309 with a grade of "C-" or higher.

Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.

EC 422 Urban Economics. 3 hours.

Analysis of the economics of community growth and the application of economic principles in solving problems and exploiting opportunities generated by the process of urban development.

EC 423 Public Finance (also FI 423). 3 hours.

Prerequisite: EC 308 with a grade of "C-" or higher.

Study of the principles of taxation, government expenditures, borrowing, and fiscal administration.

EC 430 International Trade. 3 hours.

Prerequisite: EC 308 with a grade of "C-" or higher.

Analysis of theoretical principles underlying international trade, with application of these principles to recent developments and to current national policies.

EC 431 International Finance (also FI 431). 3 hours.

Prerequisite: FI 301 or EC 309 with a grade of "C-" or higher, or EC 430.

Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.

EC 440 Economic Growth and Development. 3 hours.

A comparative analysis of economic strategies, problems, issues, and policy outcomes in low-income and newly industrialized countries.

EC 441 International Financial Management (also FI 441). 3 hours.

Prerequisites: FI 302 and EC/FI 431.

Study of the application of principles of financial management in an international setting, primarily from the perspective of nonfinancial, multinational firms.

EC 442 Economic Development in Latin America. 3 hours.

A comparative analysis of economic strategies, problems, issues, and policy outcomes with special attention given to Mexico, Costa Rica, Cuba, and Brazil.

EC 444 The Political Economy of Terrorism. 3 hours.

Prerequisites: Permission of the instructor or EC 308 with grades of "C-" or higher.

Rational actor models applied to the study of terrorism. Empirical examination of the economic impact of terrorism and of the effectiveness of anti-terrorism policies.

EC 450 History of Economic Concepts. 3 hours.

Prerequisites: EC 308 and EC 309 with grades of "C-" or higher.

Study of the development of economic theory from Adam Smith to the present day.

EC 453 Comparative Economic Systems. 3 hours.

Comparative analysis of contrasting economic systems based on the type of ownership (private versus state) and on the coordinating mechanism (market versus central command). Emphasis is given to fundamental changes in economic systems that are currently under way.

EC 461 Modern Finance Capitalism. 3 hours.

Study of the development of modern finance capitalism institutions.

EC 470 Introduction to Mathematical Economics. 3 hours.

Prerequisites: MATH 121 or MATH 125, EC 308, and EC 309 with grades of "C-" or higher.

Application of selected mathematical methods to the analysis of economic problems.

EC 471 Econometrics. 3 hours

Prerequisite: ST 260 and MATH 126, or equivalents.

This course emphasizes statistical methods for analyzing data used by social scientists. Topics include simple and multiple regression analyses and the various methods of detecting and correcting data problems such as autocorrelation and heteroscedasticity.

EC 480 Economics of the Environment and Natural Resources. 3 hours.

Prerequisite: Permission of the instructor or EC 308 with a grade of "C-" or higher. Survey of the techniques used to estimate benefits of environmental improvements, and an analysis of public policy relating to the environment and use of natural resources.

EC 481 Economics of the Public Sector. 3 hours.

Prerequisite: EC 308 with a grade of "C-" or higher.

Study of the provision of public goods and services introducing the theory of welfare economics, public choice, and cost-benefit analysis.

EC 482 Senior Seminar on Economic Issues. 3 hours.

Group discussion of current economic issues together with analysis and policy recommendations. Writing proficiency is required for a passing grade in this course.

EC 483 Health Care Economics. 3 hours.

Prerequisites: EC 110, EC 111, and EC 308 with grades of "C-" or higher.

An investigation of the microeconomics of the American health care delivery system. The course focuses on the demand for and supply of health care services and emphasizes the efficiency and equity characteristics of the system.

EC 491 Independent Study in Economics. 1-6 hours.

Students may earn degree credit for only one independent study course (491).

EC 492 Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.5 or higher. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.

EC 497 Special Topics in Economics. 3 hours.

EDUCATION (EDU)

EDU 200 Orientation to Teacher Education. 1 hour.

This course is admissible only to students in the College of Education. Through a guided sequence of exercises and experiences, this course is designed to prepare the prospective candidate in Teacher Education with some of the necessary prerequisite knowledge and skills required for success in the Teacher Education Program (TEP). Students are required to purchase a LiveText license with video streaming which will be utilized throughout the program of study in the College of Education.

EDUCATIONAL LEADERSHIP, POLICY AND TECHNOLOGY STUDIES

AHE 250 The American University. 3 hours.

This course is designed to increase understanding of how universities operate as social organizations. Students will explore the main issues, roles, constituencies, and functions of the modern American university.

EDUCATIONAL PSYCHOLOGY (BEP)

Professor Steve Thoma
Program Coordinator

Office: 305-A Carmichael Hall

Enrollment in specific courses in the College of Education may be restricted to students who clearly demonstrate the greatest potential for success as teachers. Factors such as general studies courses completed, GPA, scores on state and program tests, interviews, etc., may be considered.

BEP 110 Introduction to Learning Strategies and Skills. 3 hours.

Provides students with a theoretical and practical understanding of the importance and use of specific learning strategies. This course will also engage students in reflective decision making and critical evaluation of their learning process.

BEP 305 Educational Psychology. 3 hours.

Prerequisite: PY 101, HD 101, or equivalent.

Covers the psychological principles basic to an understanding of the learner, the learning process, and the learning situation.

BEP 360 Social and Psychological Foundations of Education. 3 hours.

Prerequisite: PY 101 or HD 101.

An examination of the social, psychological, philosophical, and historical foundations of education in a modern democratic society. Critical attention is paid to contrasting theories of human nature, the learner and the learning process that, when combined with judgments about the purpose and conduct of life, have shaped pedagogy.

BEP 410 Academic Mentoring. 1-6 hours.

Introduction to academic mentoring is a service learning and leadership course. Students mentor K-12 school students in academic subjects. Class readings and discussions support the mentoring relationship by focusing on learning, motivation, metacognition, listening, personality, and the social contexts of schooling.

EDUCATIONAL RESEARCH (BER)

Professor Rick Houser
Office: 306-C Carmichael hall

Program Coordinator

BER 345 Educational Statistics. 3 hours.

Prerequisite: MATH 100 or higher-numbered mathematics course.

Statistical methods in education; graphs, charts, frequency distributions, central tendencies, dispersion, correlation, sampling errors, estimation, and hypothesis testing.

BER 450 Assessment of Classroom Learning. 3 hours.

Prerequisites: Junior standing, BEP 305, MATH 100, and CEE 320/CSE 390.

Corequisite: CEE 495/CSE 489.

Survey of teacher-made and standardized instruments for understanding students' achievement and evaluating teaching. Field practicum in the schools is required.

ELECTRICAL AND COMPUTER ENGINEERING (ECE)

Professor Jeff Jackson
Department Head

Office: 101 Houser Hall

ECE 125 Fundamentals of Electrical and Computer Engineering.

2 hours.

Prerequisites: MATH 125.

Corequisites: DR 100.

Introduction to electrical and computer engineering, the mathematics required for these disciplines, and MatLab. Development of proficiency in DC circuit analysis and basic laboratory skills.

ECE 225 Electric Circuits. 3 hours.

Prerequisites: ECE 125 and PH 106.

Corequisites: MATH 238.

Physical concepts and mathematical techniques of circuit analysis; DC, transient, and sinusoidal steady-state analysis of circuits; Includes laboratory experiments.

ECE 285 Programming for Electrical and Computer Engineers.

3 hours.

Prerequisites: MATH 125.

Corequisites: CS 160.

Algorithm design, programming, test, and debugging skills using the C programming language. Applications to engineering problem solving in electrical and computer engineering.

ECE 320 Fundamentals of Electrical Engineering. 3 hours.

Prerequisites: PH 106.

Corequisites: MATH 238.

Introduction to circuit analysis, methods, resistive circuits, AC circuits, first-order transients, AC power, operational amplifiers, and machines. Not open to electrical engineering majors or to students who have earned credit for ECE 225.

ECE 326 Electric Networks. 3 hours.

Prerequisites: ECE 225 and MATH 238 and MATH 355.

Response of circuits to transient signals, both deterministic and random. Laplace transform solution techniques for circuits and differential equations. Relationship between Laplace and Fourier transforms. Frequency response and representation of circuits and systems. Modeling of uncertainty in circuit elements.

ECE 330 Introduction to Semiconductor Devices. 3 hours.

Prerequisites: PH 253.

Corequisites: ECE 225.

Semiconductor device physics, PN junction, Schottky diodes, BJT, MOS capacitor, MOSFET, and optoelectronic devices. Brief introduction of microelectronic fabrication.

ECE 332 Electronics I. 4 hours.

Prerequisites: ECE 225 and EN 102.

Semiconductor materials and properties, fundamentals of p-n junctions, diodes, diode circuits and operation, signal generators, rectifier and wave-shaping circuits, bipolar and field effect transistors, MOSFET, transistor DC circuit analysis, basic transistor amplifiers. Writing proficiency is required for a passing grade in this course.

ECE 333 Electronics II. 4 hours.

Prerequisites: ECE 332.

Operational amplifiers, BJTs, MOSFETs, integrated current biasing and active loads, differential and multistage amplifiers, frequency response, feedback and stability, power amplifiers, and introduction to digital circuits. The lab deals with experiments illustrating concepts in electronics. Writing proficiency is required for a passing grade in this course.

ECE 340 Electromagnetics. 4 hours.

Prerequisites: PH 106.

Corequisites: MATH 238.

Electrostatics, magnetostatics, Maxwell's equations, plane waves, guided waves, and radiation.

ECE 350 Electric Power and Machines. 3 hours.

Prerequisites: ECE 225 or ECE 320.

Single- and three-phase power system analysis. Theory and operation of electromechanical devices, including magnetic circuits, transformers, as well as DC and AC rotating machines. Fundamentals of power electronics.

ECE 370 Signals and Systems. 3 hours.

Prerequisites: ECE 225.

Time domain and frequency domain analysis of continuous and discrete signals and systems; Fourier integral, Fourier series, Z-transform. Numerical implementation using MatLab.

ECE 380 Digital Logic. 4 hours.

Prerequisites: (CS 150 or ECE 285) and CS 160 and MATH 125.

Number systems, Boolean algebra, logic functions and gates, design of combinational logic systems, flip-flops, design of synchronous sequential systems, and iterative networks. Includes laboratory experiments.

ECE 383 Microcomputers. 4 hours.

Prerequisites: ECE 380.

Microprocessors, microcontrollers, assembly-language programming, interrupts, polling, and hardware interfaces.

ECE 404 Sensor Networks. 3 hours.

Prerequisites: ECE 383.

Basic architecture and applications of wireless sensor networks (WSN). Hardware components of WSN, WSN operating systems, transport layer, routing layer, MAC layer, and data link layer of WSN.

ECE 406 Computer Communications and Networks (also CS 438).

3 hours.

Prerequisites: CS 357 and ECE 383, or permission of the instructor.

Introduction to computer communications and networks. Topics include physical topologies, various protocols, the OSI and TCP/IP Reference Models, error detection and correction, routing algorithms, congestion control, example networks, and network applications.

ECE 408 Communications. 3 hours.

Prerequisites: ECE 370 and MATH 355, or permission of the instructor.

Analog and digital communication systems, random signals, sampling, filtering, analog-to-digital encoding, advanced digital modulation/demodulation, source encoding/decoding, channel encoding/decoding, multiplexing, and system performance analysis.

ECE 409 Communications Laboratory. 1 hour.

Prerequisites: ECE 370 and MATH 355, or permission of the instructor.

Corequisites: ECE 408.

Modeling and design of communication systems. Familiarization with specialized communications equipment and techniques. Proper use of laboratory instruments.

ECE 430 Solid State Devices. 3 hours.

Prerequisites: ECE 330.

Solid-state physics for semiconductor devices, PN junction, metal-semiconductor junction, JFET/MESFET, MOSFET, BJT, and non-ideal behaviors of solid-state devices. Organic thin-film devices, including organic solar cells, thin-film transistors, light-emitting diodes, and their application for flexible displays.

ECE 432 VLSI Design. 3 hours.

Prerequisites: ECE 332 or permission of the instructor.

Digital design issues in the context of VLSI systems. Introduction to CMOS digital design methodology, layout techniques, behavioral models, circuit simulation and testing of complex systems.

ECE 434 Mixed-Signal Circuits. 3 hours.

Prerequisites: ECE 332 or permission of the instructor.

Design and testing issues in the context of mixed-signal embedded systems. Introduction to CMOS mixed-signal design methodology, layout techniques, analog-to-digital converters, digital-to-analog converters, circuit simulation, and testing and packaging of complex mixed-signal systems.

ECE 435 Microsystems Packaging. 3 hours.

Prerequisites: ECE 332 or permission of the instructor.

Microsystems packaging issues in the context of a variety of packaging technologies in system-on-package, system-in-package, package-on-package, system-on-chip, and wafer-level packaging.

ECE 438 Integrated Circuit Fabrication Principles (also CHE 438).

3 hours.

Prerequisites: ECE 333 or MTE 271, or permission of the instructor.

Study of the processing tools used in semiconductor device fabrication. Topics include semiconductor fundamentals, semiconductor device fabrication processes, interconnections and contacts, integrated circuit packaging, and chip yield.

ECE 439 Thin Film Technology. 3 hours.

Prerequisites: ECE 225 or PH 253 or permission of the instructor.

Crystal structure and defects, film nucleation and growth models, growth of polycrystalline and epitaxial films, vacuum science technology, physical and chemical vapor deposition, solution based methods, thin film characterization techniques.

ECE 440 Electromagnetic Waves. 3 hours.

Prerequisites: ECE 340.

Mathematics and physics of the radiation, propagation, and scattering of electromagnetic waves. Boundary value problems involving finite and infinite structures, waveguides, antennas, and media.

ECE 445 Antennas. 3 hours.

Prerequisites: ECE 340 or PH 332.

Transmission and reception of power and information in free space; antennas as interface elements; impedance and radiation characteristics of modern antennas.

ECE 451 Power Electronics. 3 hours.

Prerequisites: ECE 332 and ECE 350.

Detailed study on the theory and operation of power electronic converters and systems. Overview of enabling power semiconductor switching devices. Introduction to feedback control of converters. Machine drive fundamentals.

ECE 452 Power Electronics Laboratory. 1 hour.

Prerequisites: ECE 332 and ECE 350.

Corequisites: ECE 451.

Laboratory experience in three-phase power systems and electric

machinery. Laboratory experience on the theory and operation of power electronic converters, systems, and machine drives.

ECE 453 Power Systems. 3 hours.

Prerequisites: ECE 350.

Basic power system concepts and per-unit quantities; transmission line, transformer, and rotating machine modeling; power flow; symmetrical component of power systems; faulted power system analysis.

ECE 454 Power Systems Laboratory. 1 hour.

Prerequisites: ECE 350.

Corequisites: ECE 453.

Test and analysis of power systems and machine devices and the design of systems using these devices.

ECE 455 Electromechanical Systems. 3 hours.

Prerequisites: ECE 225 and MATH 238.

Static and dynamic modeling, analysis, and simulation of mechanical, electrical, hydraulic, and mixed systems. MatLab and Simulink model development and simulation.

ECE 461 Quantum Nano Electronics. 3 hours.

Prerequisites: ECE 330 or PH 253 or permission of the instructor.

Energy levels and wavefunctions of semiconductor microstructures; envelope function approximation; quantum wells; superlattices; excitons; optical and electrical properties; selection rules; quantum confined Stark effect; Wannier-Stark localization; field-effect transistors; tunneling devices; quantum well lasers; electro-optic modulators; quantum-well intersubband photodetectors.

ECE 462 Nanophotonics: Semiconductor Optoelectronics. 3 hours.

Prerequisites: PH 253 or permission of the instructor.

Elemental and compound semiconductors; fundamentals of semiconductor physical properties; solid state physics; optical recombination and absorption; light emitting diodes; quantum well lasers; quantum dots lasers; blue lasers; semiconductor modulators; photodetectors; semiconductor solar cells; semiconductor nanostructure devices.

ECE 463 Magnetic Materials and Devices. 3 hours.

Prerequisites: ECE 340 or permission of the instructor.

Diamagnetism and paramagnetism, ferromagnetism, antiferromagnetism, ferrimagnetism, magnetic anisotropy, domains and the magnetization process, fine particles and thin films, magnetization dynamics.

ECE 466 Fundamentals of Nanotechnology. 3 hours.

Prerequisites: ECE 330 or PH 253.

Nanofabrication with electron-beam lithography, focused-ion beam lithography, and nanoimprint; microscopies for nanostructures, including SEM, EDX, TEM, AFM, STM; nano-scale devices based on nanostructured materials (carbon nanotubes and metal-oxide nanomaterials).

ECE 475 Control Systems Analysis. 3 hours.

Prerequisites: ECE 326.

Classical and modern feedback control system methods; stability; Bode, root locus, state variables, and computer analysis.

ECE 476 Control Systems Laboratory. 1 hour.

Prerequisites: ECE 326.

Corequisites: ECE 475.

Practical analysis and design of feedback control systems and components; electrical, mechanical, and electromechanical systems.

ECE 479 Digital Control Systems. 3 hours.

Prerequisites: ECE 370 and ECE 475 and either GES 451 or MATH 237.

Frequency and time methods in discrete time control systems; sampling of continuous-time signals, stability, transform design techniques, and state variable analysis and design techniques.

ECE 480 Digital Systems Design. 3 hours.

Prerequisites: ECE 383.

Corequisites: ECE 481.

Digital systems design with hardware description languages, programmable implementation technologies, electronic design automation design flows, design considerations and constraints, design for test, system on a chip designs, IP cores, reconfigurable computing, digital system design examples and applications.

ECE 481 Digital Systems Design Laboratory. 1 hour.

Prerequisites: ECE 383.

Corequisites: ECE 480.

Logic design and simulation via hardware description languages, use of electronic design automation tools, and CPU design.

ECE 482 Computer Vision and Digital Image Processing. 3 hours.

Prerequisites: ECE 285 and MATH 355, or permission of the instructor.

Introduction to computer vision and digital image processing with an emphasis on image representation, transforms, filtering, compression, boundary detection, and pattern matching.

ECE 484 Computer Architecture. 3 hours.

Prerequisites: ECE 383.

Basic computer organization, computer arithmetic, assembly language, machine language, simple and pipelined central-processor organization, memory system hierarchy, and measuring computer performance.

ECE 485 Programmable Logic Controllers. 3 hours.

Prerequisites: ECE 383 or permission of the instructor.

Programmable Logic Controllers (PLC), fundamentals of ladder logic programming and PLC systems, advanced PLC operation and related topics including networking, control applications, and human-machine interface design.

ECE 486 Embedded Systems. 3 hours.

Prerequisites: ECE 383.

Corequisites: ECE 487.

Integration of microprocessors into digital systems. Includes hardware interfacing, bus protocols and peripheral systems, embedded and real-time operating systems, real-time constraints, networking, and memory system performance.

ECE 487 Embedded Systems Laboratory. 1 hour.

Prerequisites: ECE 383.

Corequisites: ECE 486.

Projects provide hands-on experience in hardware interfacing, system-level design, real-time concepts, and memory system performance.

ECE 491 Special Problems (Area). Variable credit.

Investigation of a problem or problems, usually involving research with a faculty member. Credit is based on the individual assignment.

ECE 492 Capstone Design I. 3 hours.

Corequisites: ECE 333 and 400-level electrical or computer engineering lecture-lab combination.

First of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project. Also, the first-semester course will include instruction in design methodology, engineering ethics, societal impacts, project economics, and management tools.

ECE 493 Selected Topics (Area). Variable credit.

Special courses in all areas of electrical or computer engineering, offered as the need arises. Credit is based on the course requirements.

ECE 494 Capstone Design II. 3 hours.

Prerequisites: ECE 492.

Second of a two-course sequence to provide design experience through capstone design, a team-based two-semester-long design project.

ECE 498 Honors Problems I. 1 to 3 hours.

Prerequisites: Senior honor student with 3.3 or higher GPA.

Investigation of an electrical or computer engineering research or design problem.

ECE 499 Honors Problems II. 1 to 3 hours.

Prerequisites: Senior honor student with 3.3 or higher GPA.

Investigation of an electrical or computer engineering research or design problem.

ELEMENTARY EDUCATION PROGRAMS (CEE)

Associate Professor Diane Carver Sekeres
Office: 208-B Graves Hall

Program Coordinator

Enrollment in specific courses in the College of Education may be restricted to students who clearly demonstrate the greatest potential for success as teachers. Factors such as general studies courses completed, GPA, scores on state and program tests, interviews, etc., may be considered.

CEE 304 Teaching Elementary School Science (K–6). 3 hours.Prerequisites: Admission to TEP and completion of all science requirements.
Corequisites: CEE 366, CEE 478, CEE 496, and KIN 364.

Teaching experiences related to K-6 children's learning of science, with emphasis on teaching strategies that use inquiry approaches.

CEE 320 Survey of Elementary Education. 3 hours.

Corequisites: BEP 305, BEF 362, CRD 369, MUE 385, and SPE 300.

Surveys elementary education as a professional career. Students become acquainted with factors affecting successful teaching in the elementary school.

CEE 365 Literature for Children (K–6). 3 hours.

Prerequisite: Admission to TEP.

Corequisites: BER 450, CEE 370, CEE 380, and CEE 495.

Selection and teaching of literature for elementary school children at various

developmental levels, according to interests, needs, and abilities. Intensive field experience.

CEE 366 Teaching the Social Sciences (K–6). 3 hours.

Prerequisites: Admission to TEP and completion of all social science/humanities requirements.

Corequisites: CEE 304, CEE 478, CEE 496, and KIN 364.

The nature of elementary school social studies, the resource unit, kinds of materials, teaching procedures, and the evaluation of learning. Intensive field experience.

CEE 370 Teaching Reading in the Elementary School. 3 hours.

Prerequisites: Admission to TEP and completion of all English/literature requirements.

Corequisites: BER 450, CEE 365, CEE 380, and CEE 495.

Materials and methods in the teaching of reading, with emphasis on assessment-based instruction and planning a balanced program. Intensive field experience.

CEE 380 Teaching Elementary Mathematics. 3 hours.

Prerequisites: Admission to TEP and completion of all mathematics requirements (12 semester hours of MATH 110 or higher. MATH 208, 209, and 210 are recommended.)

Corequisites: BER 450, CEE 365, CEE 370, and CEE 495.

Teaching experiences related to children's developmental learning of elementary mathematics, with emphasis on teaching strategies, manipulatives, and other materials useful in teaching content. Intensive field experience.

CEE 401 Managing Effective Classrooms. 3 hours.

Prerequisites: Admission to the TEP and completion of all Professional Semesters I, II, and III coursework.

Corequisites: CEE 497 or CEE 597.

This course is designed to teach students the principles and theory of classroom management. Emphasis will be placed on the design and implementation of classroom management methods and techniques.

CEE 478 Teaching Language Arts in the Elementary School. 3 hours.

Prerequisites: Admission to TEP and completion of all English/literature requirements.

Corequisites: CEE 304, CEE 366, CEE 496, and KIN 364.

Deepening understanding of the materials and methods for teaching of language arts with emphasis on planning and implementing a writing program. Intensive field experience.

CEE 491 Early Childhood Curriculum & Instruction. 6 hours.

Prerequisite: Admission to TEP and Early Childhood Cohort and completion of Professional Semester II courses.

A foundation in the materials and methods for teaching in early childhood (birth-8) classrooms with an emphasis on child development, assessment, and instruction. Intensive field experience.

CEE 495 Practicum. 4 hours.

Prerequisite: Admission to TEP and completion of all Professional Semester I courses.

Corequisites: BER 450, CEE 365, CEE 370, and CEE 380.

Open only to students in professional semester II of the elementary education program. This course offers students significant clinical experience and opportunities to plan and teach lessons.

CEE 496 Senior Practicum. 4 hours.

Prerequisites: Admission to the TEP and completion of all Professional Semesters I and II coursework.

Corequisites: CEE 304, CEE 366, CEE 478, KIN 364.

A field-based course providing opportunities to practice authentic classroom application of various subject areas in elementary education.

CEE 497 Internship in Elementary Schools (K–6). 9–12 hours.

Prerequisites: Permission of the department head, senior standing, admission to TEP, a minimum overall and UA GPA of 2.75 for all work attempted, and a minimum GPA of 2.75 in the major, and completion of all Professional Semesters I, II, and III coursework.

Observation, participation, and teaching experiences supervised by selected cooperating teachers in public elementary schools. Additional supervision is provided by College of Education personnel. Offered fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the *Crimson White* prior to the meetings.

ENGLISH (EN)

Office: 103 Morgan Hall

EN 099 Basic Writing. No credit awarded.

Fundamentals of expository writing. EN 099 is required for students who place into EN 101 but are judged, on the basis of an in-class expository writing assignment during the first week of class, to be insufficiently prepared for that course. A grade of "C-" or higher in EN 099 is required for eligibility to advance to EN 101. Students who do not earn grades of "C-" or higher in this course will be assigned grades of "NC" ("No Credit").

EN 101 English Composition I. 3 hours.

Introduction to college-level expository writing, critical reading, and preliminary research techniques, and the rhetorical tools needed to participate successfully in the University of Alabama discourse community. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). A grade of "C-" or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 101 does not apply as credit to the English major or minor.

EN 102 English Composition II. 3 hours.

Prerequisite: EN 101.

Intermediate college-level expository writing covering the principles of formal argumentation, advanced critical thinking and analysis, university-level research techniques, and research-paper writing. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). A grade of "C-" or higher is required as a prerequisite for advancing to another English course at The University of Alabama. Offered each semester and in summer school. EN 102 does not apply as credit to the English major or minor.

EN 103 Advanced English Composition. 3 hours.

This is an accelerated freshman composition course that is open to students with minimum composite scores of 28 ACT or 1240 SAT, or minimum ACT English scores of 30 or SAT verbal scores of 720. With the appropriate qualifying scores and the completion of EN 103 with a grade of "C-" or higher, placement credit is awarded for EN 101 and the general education requirement for freshman composition is completed. Expository writing. Topics to be determined by each instructor. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). A grade of "C-" is required as a prerequisite for advancing to another English course at The University of Alabama. EN 103 does not apply as credit to the English major or minor.

EN 104 Blount Freshman English. 3 hours.

Prerequisite: Admission to the Blount Undergraduate Initiative.

College-level expository writing, critical reading, and library research. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). This course substitutes for either EN 103 Advanced Composition or EN 101 Freshman Composition I. Students who qualify for EN 103 (a score of 28 or higher on the ACT or 1240 on the SAT) are awarded an additional 3 hours of composition credit with a grade of "pass" upon successful completion of EN 104. Other students receive the same credit if they earn a grade of "A-" or higher. Students who earn a grade lower than "A-" are required to take three additional hours of freshman composition, generally EN 102. Students who have credit for EN 101 and EN 102 either from another institution or through AP or IB placement do not take EN 104. EN 104 does not apply as credit to the English major or minor.

EN 120 English Composition I for Non-Native Speakers. 3 hours.

Prerequisite: Satisfactory performance on the departmental examination for non-native speakers of English.

Emphasis on writing and conversation. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). A grade of "C-" is required as a prerequisite for advancing to another English course at The University of Alabama. EN 120 does not apply as credit to the English major or minor.

EN 121 English Composition II for Non-Native Speakers. 3 hours.

Prerequisite: EN 120.

Emphasis on writing and research papers. Grades are reported as "A," "B," "C," or "NC" ("No Credit"). A grade of "C-" is required as a prerequisite for advancing to another English course at The University of Alabama. EN 121 does not apply as credit to the English major or minor.

EN 200 Introduction to Creative Writing. 3 hours.

Prerequisites: EN 101 and 102 (or EN 103 or EN 104).

Study of topics relating to all genres of creative writing; introduction of genre-specific principles. Required of all creative writing minors. Credit for this course is not applicable toward the requirements of the English major or minor.

EN 205 English Literature I. 3 hours.

Prerequisite: EN 101 and EN 102 (or EN 103 or EN 104).

Survey of English literature from the Anglo-Saxon period to 1800, including, for example, work by Chaucer, Shakespeare, and Milton.

EN 206 English Literature II. 3 hours.

Prerequisites: EN 101 and EN 102 (or EN 103 or EN 104).

Survey of English literature from 1800 to the present, including, for example, work by Wordsworth, Coleridge, Dickens, Eliot, and Yeats.

EN 207 World Literature I (same as WL 207). 3 hours.

Prerequisites: EN 101 and EN 102 (or EN 103 or EN 104).

Survey of world literature from the Classical period to the Renaissance.

EN 208 World Literature II (same as WL 208). 3 hours.

Prerequisites: EN 101 and EN 102 (or EN 103 or EN 104).

Survey of world literature from the Enlightenment to the Modern period.

EN 209 American Literature I. 3 hours.

Prerequisites: EN 101 and EN 102 (or EN 103 or EN 104).

Survey of American literature from its beginnings to 1865, including, for example, work by Poe, Thoreau, Emerson, Melville, and Whitman.

EN 210 American Literature II. 3 hours.

Prerequisites: EN 101 and EN 102 (or EN 103 or EN 104).

Survey of American literature from 1865 to the present, including, for example, work by Twain, Dickinson, Hemingway, Faulkner, and Morrison.

EN 215 Honors English Literature I. 3 hours.

Honors section of EN 205.

EN 216 Honors English Literature II. 3 hours.

Honors section of EN 206.

EN 219 Honors American Literature I. 3 hours.

Honors section of EN 209.

EN 220 Honors American Literature II. 3 hours.

Honors section of EN 210.

EN 249 African American Literature (same as AAST 249). 3 hours.

Prerequisites: EN 101 and EN 102 (or EN 103 or EN 104).

Survey of African American literature from its earliest expressions to the present. In order to identify the aesthetics of the African American literary tradition, the course material includes spirituals, slave narratives, poetry, drama, autobiography, fiction, and nonfiction.

Prerequisite for 300-level courses: 12 hours in English, including 6 hours at the 200-level.

The Department of English views 300-level courses as "bedrock reading" and, except in the case of major author courses—such as Chaucer or Milton—they will normally cover a variety of authors. Although secondary sources may be employed, in most cases reading lists will be based on primary sources and will concentrate on the writers and forms that represent the core history of literature in England and/or America. Courses at this level are designed to provide appropriate continuity between broad sophomore surveys and more specialized 400-level courses.

During every pre-registration period, students can obtain a list containing a detailed description for each 300- and 400-level course being offered. These descriptions, written by the course instructors, provide specific reading lists and course objectives not found here. The English department provides both a printed and online list of each semester's course descriptions.

EN 300 Introduction to English Studies. 3 hours.

Designed to provide English majors with an introduction to the methods employed in the discipline of English. Students will pursue an understanding of the fundamental issues of critical reading, interpretation, and writing, including the application of literary critical methods to the study of primary texts. Readings will include a selection of texts in the traditional literary categories of poetry, drama, and prose, as well as the genre of the literary critical essay. A discussion of the applicability of the class's investigations into other genres and media may occur as well.

EN 301 Prose Tour. 3 hours.

Prerequisite: EN 200.

Study of basic principles of composing creative prose. Reading and assigned writing experiments in a broad range of prose forms. Required of all creative writing minors.

EN 303 Poetry Tour. 3 hours.

Prerequisite: EN 200.

Study of basic principles of composing poetry. Reading and assigned writing experiments in a broad range of poetic forms. Required of all creative writing minors.

EN 308 Forms of Creative Writing. 3 hours.

Prerequisite: EN 200.

Special topics in Creative Writing. Sample topics: Memoir vs. Roman à Clef, Formal Verse, The Short-Short Story, Animated Alphabet, Experimental

Poetries. Students produce imaginative and critical writing related to topic. Required of creative writing minors. May be repeated for a maximum of 6 hours.

EN 309 Advanced Expository Writing. 3 hours.

Study and practice in methods of exposition, explanation and explication, logic and persuasion, definition and analogy, analysis and evaluation. Enrollment is limited to 15.

EN 310 Writing: Special Topics. 3 hours.

Topics vary from semester to semester; examples are legal writing, writing about the social sciences, and reading and writing in cyberspace. May be repeated for a maximum of 6 hours.

EN 311 Literature: Special Topics. 3 hours.

Topics vary from semester to semester and may include courses offered by other departments.

EN 319 Technical Writing. 3 hours.

Prerequisites: Junior standing.

Writing for the world of work. This course covers résumés, business correspondence, technical report writing, and other common forms of written communication.

EN 320 Introduction to Linguistics. 3 hours.

Introduction to the study of language, including subjects such as language acquisition, variation, and origins. The system of sounds, syntax, and meaning are illustrated in English and other languages. Prerequisite for EN 466.

EN 321 Linguistic Approaches to English Grammar. 3 hours.

A study of English grammar integrating principles from linguistic theory with structural approaches to grammar. The course includes a focus on the expectations of grammatical usage in different contexts and an understanding of how to apply this knowledge in a pedagogical setting.

EN 329 Directed Studies. 1 to 3 hours.

Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies.

EN 330 Chaucer and Medieval Literature. 3 hours.

Examines works of the Old and Middle English Periods, the formative years of British literature. Works from pre-conquest England may include *Beowulf*, Bede's *History of the English Church*, and poems from the Exeter and Vercelli manuscripts. The major works from the fourteenth and fifteenth centuries may include *Sir Gawain and the Green Knight*, William Langland's *Piers Plowman*, John Gower's *Confessio Amantis*, and Chaucer's *Troilus and Criseyde* and *Canterbury Tales*.

EN 331 Chaucer. 3 hours.

Introduction to the works of Chaucer. This course includes a study of Chaucer's language as well as the fourteenth-century milieu.

EN 332 Sixteenth-Century Literature. 3 hours.

A cross-genre survey of the literature of the Elizabethan period. Authors may include Sir Thomas More, Sir Thomas Wyatt, Sir Philip Sidney, Sir Walter Raleigh, Edmund Spenser, Aemilia Lanyer, Christopher Marlowe, and William Shakespeare.

EN 333 Shakespeare. 3 hours.

Introduction to Shakespeare's plays. Various aspects of Elizabethan life and customs, philosophy and politics, history and psychology are also examined as they relate to the drama.

EN 334 Seventeenth-Century Literature. 3 hours.

A cross-genre survey of literature in English from 1603 to 1660. Authors may include John Donne, Ben Jonson, Francis Bacon, John Webster, Lady Mary Wroth, William Bradford, Anne Bradstreet, and Andrew Marvell.

EN 335 Milton. 3 hours.

An introduction to Milton's English poetry and the complex history, politics, aesthetics, philosophy, and theology of seventeenth-century England. Typically devotes approximately half the semester to a close reading of *Paradise Lost*.

EN 340 American Literature to 1900. 3 hours.

A cross-genre survey of American literature from its beginnings to 1900. Authors may include Mary Rowlandson, Cotton Mather, Phillis Wheatley, Nathaniel Hawthorne, Frederick Douglass, Henry James, and Mark Twain.

EN 341 American Poetry to 1900. 3 hours.

A survey of American poetry from its beginnings to 1900. Authors may include Anne Bradstreet, Edward Taylor, Edgar Allan Poe, Walt Whitman, and Emily Dickinson.

EN 342 American Fiction to 1900. 3 hours.

A survey of the development of American fiction from its beginnings to 1900, with attention to both the novel and short story. Authors may include James Fenimore Cooper, Nathaniel Hawthorne, Harriet Beecher Stowe, Herman Melville, Mark Twain, and Kate Chopin.

EN 343 British Fiction to 1900. 3 hours.

A survey of developments in British fiction from its beginnings to 1900. Authors may include Aphra Behn, Samuel Richardson, Henry Fielding, Fanny Burney, Charles Dickens, and George Eliot.

EN 344 Major Authors, 1660–1900. 3 hours.

Limited to a maximum of three authors. Attention to the national literatures of Britain and America, and to different genres of prose, drama, and poetry, will vary from semester to semester. Authors may include Alexander Pope, Jane Austen, Thomas De Quincey, Ralph Waldo Emerson, Frederick Douglass, and Emily Dickinson.

EN 345 Nonfiction in English, 1660–1900. 3 hours.

A survey of essays and non-fiction prose by major British and American writers as they deal with a wide range of social and literary problems that arose in an increasingly scientific, democratic, and industrial age. Authors may include John Dryden, Mary Wollstonecraft, Walter Pater, Thomas Jefferson, Ralph Waldo Emerson, Olaudah Equiano, and Harriet Jacobs.

EN 346 Drama, 1660–1900. 3 hours.

A survey of British, American, and European drama during the period that extends from Molière, John Dryden, and Aphra Behn to Henrik Ibsen and Bernard Shaw.

EN 347 English Literature During the Enlightenment. 3 hours.

A cross-genre survey of English literature during the period 1660–1800. Authors may include John Locke, John Bunyan, Mary Astell, Jonathan Swift, Lady Mary Wortley Montagu, and Samuel Johnson.

EN 348 Romantic Literature. 3 hours.

A cross-genre survey of British Romantic writers such as William Blake, Jane Austen, William Wordsworth, Samuel Taylor Coleridge, Lord Byron, John Keats, Percy Bysshe Shelley, and Mary Shelley.

EN 349 Victorian Literature. 3 hours.

A survey of the genres, authors, and issues in British literature, 1832–1900. Authors may include Elizabeth Barrett Browning, Robert Browning, Alfred, Lord Tennyson, Matthew Arnold, Dante Gabriel Rossetti, Christina Rossetti, and Oscar Wilde.

EN 350 Topics in African American Literature (same as AAST 350). 3 hours.

A cross-genre survey of African American literature, historical events, and critical movements. Authors may include Frederick Douglass, Harriet Jacobs, Richard Wright, Zora Neale Hurston, Nella Larsen, Langston Hughes, and Toni Morrison.

EN 360 Topics in American Literature, 1900–1945. 3 hours.

A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in America. Authors may include Henry James, Edith Wharton, W.E.B. Du Bois, Gertrude Stein, Countee Cullen, Eugene O'Neill, and Wallace Stevens.

EN 361 Topics in American Literature, 1945 to Present. 3 hours.

A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in America. Authors may include Langston Hughes, Arthur Miller, James Baldwin, Norman Mailer, Toni Morrison, Sam Shepherd, Adrienne Rich, and John Ashbery.

EN 362 Topics in British Literature, 1900 to 1945. 3 hours.

A cross-genre survey of major literary figures, critical movements, historical events, and significant texts within the first half of the twentieth century in Britain. Authors may include Joseph Conrad, Bernard Shaw, W. B. Yeats, Virginia Woolf, James Joyce, Katherine Mansfield, and T. S. Eliot.

EN 363 Topics in British Literature, 1945 to Present. 3 hours.

A cross-genre survey of major literary figures, critical movements, historical events, and significant texts since the Second World War in England. Authors may include Samuel Beckett, W. H. Auden, Doris Lessing, Seamus Heaney, Harold Pinter, and Jeanette Winterson.

EN 364 Modern Drama. 3 hours.

A survey of the major American, British, European, and African plays from the nineteenth and twentieth centuries. Authors may include Eugene O'Neill, Tennessee Williams, Ntozake Shange, Oscar Wilde, Harold Pinter, Tom Stoppard, August Strindberg, Anton Chekhov, Wole Soyinka, and Athol Fugard.

EN 365 Modern American Fiction. 3 hours.

A survey of American fiction—novels and short stories—written in the twentieth century. Authors may include F. Scott Fitzgerald, Willa Cather, William Faulkner, Toni Morrison, N. Scott Momaday, and Leslie Marmon Silko.

EN 366 Twentieth-Century Poetry. 3 hours.

A survey of major authors and trends in modern poetry in America, Britain, and the anglophone world, as poetry in English became an international phenomenon. Attention will be paid to modernist and post-modernist poetry movements, American regionalisms, war poetry, and the poetry of neocolonial experiences.

EN 367 Post-Colonial Writing in English. 3 hours.

A survey of the history, culture, and literature of the Caribbean, Africa, and India. Authors may include V. S. Naipaul, Jamaica Kincaid, Michelle Cliff, Bessie Head, Chinua Achebe, Tsitsi Dangarembga, Bharati Mukherjee, and Salman Rushdie.

EN 368 Modern British Fiction. 3 hours.

A survey of the twentieth-century novels and short stories produced by leading British and Irish writers. Authors may include James Joyce, Virginia Woolf, George Orwell, Iris Murdoch, A.S. Byatt, and Martin Amis.

EN 370 Comedy. 3 hours.

A cross-genre survey of comic literature that may begin with classical models and proceed through the present. This course, like comedy itself, will focus on people as social beings, especially on the relation between the sexes. Sub-genres explored may include fabliaux or folk humor, romantic comedy, city comedy, black humor, and theatre of the absurd.

EN 371 Tragedy. 3 hours.

A cross-genre survey of tragic literature that may begin with the classical tragedians and proceed through the present. This course, like tragedy itself, will focus on the individual confronting the larger forces of society, god, or fate. Applying the concept of tragedy to fiction and poetry as well as to drama, this course will consider changing conceptions of the tragic and the tragic hero.

EN 373 Women in Literature. 3 hours.

A survey of British and American literature written by and/or about women. Authors may include a cross-genre range from Anne Bradstreet and Fanny Burney to Toni Morrison and Louise Erdrich.

EN 399 Honors Seminar in English. 3 hours.

Prerequisites: Admission to the English Honors Program, EN 215, and EN 216, EN 219, or EN 220.

Covers selected topics in English that vary from year to year. Topics are most likely to be thematic and to cut across conventional divisions of literary period and literary form.

Prerequisite for 400-level courses: 18 hours of English, including 6 hours at the 200 level and 6 hours at the 300 level.

The Department of English distinguishes 400-level courses from 300-level courses by the attention given at the 400 level to both specialization of focus and critical method(s). The 400-level courses will focus on both the literature and the way we study literature, so primary texts will be taught in conjunction with secondary and/or critical sources.

EN 401 Advanced Fiction Writing. 3 hours.

Prerequisite: EN 301.

Round table discussion and criticism of original student manuscripts. Reading of published fiction and assigned writing experiments will complement workshop activities.

EN 403 Advanced Poetry Writing. 3 hours.

Prerequisite: EN 303.

Round table discussion and criticism of original student manuscripts. Reading of published poetry and assigned writing experiments will complement workshop activities.

EN 405 The Forms of Fiction. 3 hours.

This is a special topics course whose content will be determined by its instructor, the chairholder of the Visiting Professorship in Creative Writing.

EN 406 The Forms of Poetry. 3 hours.

This is a special topics course whose content will be determined by its instructor, the chairholder of the Visiting Professorship in Creative Writing.

EN 408 Advanced Creative Writing. 3 hours.

Prerequisites: EN 301 and EN 303.

Special topics in imaginative writing. Focus may be on poetry writing, fiction writing, nonfiction writing, dramatic writing, or combinations of these. Students produce imaginative writing and read related texts. May be repeated for a maximum of 12 hours.

EN 409 Writing for Film. 3 hours.

Introduction to the craft of writing for film and television.

EN 410 Writing Creative Nonfiction. 3 hours.

Prerequisite: EN 301.

Study of imaginative prose engaged with factual subject matter. Reading

of published creative nonfiction and assigned writing experiments will complement round table discussion and criticism of original student manuscripts.

EN 411 Advanced Studies in Comparative or Multicultural Literature. 3 hours.

Designed for advanced English majors, a special topics course that focuses on issues involving comparative literatures and/or cultural studies.

EN 422 Advanced Studies in American Literature. 3 hours.

Designed for advanced English majors, a special topics course that focuses on issues in American literature.

EN 429 Directed Studies. 1 to 3 hours.

Prerequisite: Enrollment only by previous arrangement with a specific instructor and with the permission of the director of undergraduate English studies.

EN 430 English Internship. 3 hours.

Prerequisites: English major, 3.00 grade point average, and second-semester junior or senior standing in the semester in which the internship is held.

Credit for the internship is not applicable toward the requirements of the English major or minor.

An on- or off-campus training position in which students use the skills they have gained as English majors and enhance their employment opportunities after graduation. Interns work approximately 10 hours a week, holding responsible positions with, among others, *Alabama Heritage*, *Alabama Alumni Magazine*, and the Tuscaloosa Public Defender's Office. Apply to the director of undergraduate studies in the Department of English.

EN 433 Advanced Studies in British Literature. 3 hours.

Designed for advanced English majors, a special topics course that focuses on issues in British literature.

EN 444 Advanced Studies in Literary Criticism and Theory. 3 hours.

Designed for advanced English majors, a special topics course that focuses on issues involving literary criticism and critical theory.

EN 455 Advanced Studies in Writing. 3 hours.

Designed for advanced English majors, a special topics course that focuses on the process of writing. The forms this writing may take include, but are not limited to, film, creative non-fiction, autobiography, and local color. May be repeated a maximum of 9 hours.

EN 466 Advanced Studies in Linguistics. 3 hours.

Prerequisite: EN 320.

Designed for English majors, a special topics course that focuses on issues in linguistics. Typical topics are English grammar (structure of English) and American dialects (dialectology).

EN 477 Advanced Studies in Literary Genre. 3 hours.

Designed for advanced English majors, a special topics course that focuses on issues in genre criticism.

EN 488 Advanced Studies in African American Literature (same as AAST 488). 3 hours.

Designed for the advanced English major, a special topics course that focuses on issues in African American literature.

EN 499 Honors Seminar in Literature. 3 hours.

Prerequisites: Admission to the English Honors Program and EN 399.

Individualized directed readings course that culminates in a 30-50 page thesis. With the assistance of the honors coordinator, each student will select a faculty mentor who will guide the student's reading and direct his or her research. Each student will work with the faculty mentor to develop a topic suitable for the thesis. Students must earn a minimum grade of "B" on the thesis to graduate with "honors in English."

EXTERNAL DEGREE PROGRAM (EXD)

Office: 201 Lloyd Hall

EXD 101 Foundations of Adult Learning Seminar. 3 hours. Pass/fail.

Orientation to the EXD Program and introduction to the theories and principles of adult learning, learning styles, college degree planning, college writing, and selected issues relating to adult education. Mandatory for admission to the EXD Program.

EXD 102 Writing Skills and Strategies. 3 hours.

Required completion within the first six months of enrollment in the program. Helps students enhance their college writing skills.

EXD 300 Directed Study. 1 to 12 hours.

Out-of-class learning contracts designed by students in selected topics. Advisor approval required.

EXD 311-EXD 360 Contract Learning. 1 to 12 hours.

Out-of-class learning contracts designed by faculty members in selected topics.

EXD 395 Seminar. 1 to 6 hours.

Campus-based seminar on varying topics in natural sciences, humanities, social sciences, or other selected areas.

EXD 498 Senior Project. 1 to 8 hours.

Student-designed major project or research in approved area. Required of all EXD students before graduation.

FARSI (FRS)

Office: 200-D B.B. Comer Hall

FRS 101 Elementary Farsi I. 3 hours.

Contemporary Farsi (Persian)—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

FRS 102 Elementary Farsi II. 3 hours.

Prerequisite: FRS 101 or equivalent.

Contemporary Farsi (Persian)—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.

FRS 201 Intermediate Farsi I. 3 hours.

Prerequisite: FRS 102 or equivalent.

Continuation of Farsi (Persian) language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

FRS 202 Intermediate Farsi II. 3 hours.

Prerequisite: FRS 201 or equivalent.

Continuation of FRS 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

FINANCE (FI)

Dr. Billy P. Helms, Department Head

Office: 200 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

EC 110 and EC 111 or their equivalents are prerequisites for all courses in the finance program except FI 302.

FI 301 Introduction to Financial Institutions and Markets. 3 hours.

Overview of the financial systems in which business operates, with emphasis on financial institutions, instruments, and markets.

FI 302 Business Finance. 3 hours.

Prerequisite: EC 110 and AC 210 or equivalent.

Study of financial objectives of business enterprise, sources of capital, and financial management of business assets. Emphasis is on establishing a framework for making financing, investing, and dividend decisions.

FI 331 Principles of Real Estate. 3 hours.

Prerequisite: FI 302 or permission of instructor.

Survey of various aspects of real estate business and economics, including marketing, finance, development, law, appraising, etc.

FI 334 Introduction to Real Estate Property Management. 3 hours.

Prerequisite: FI 331.

Provides an introduction to the principles of real property management and covers all aspects of the property management process. Students are shown how to maximize the asset value of income-producing real estate for investors/owners through the use of finance, marketing, and management techniques.

FI 341 Fundamentals of Risk Management and Insurance. 3 hours.

Corequisite: FI 302.

Introductory study of life insurance and “personal lines” of property insurance, especially homeowners’ insurance and auto insurance. Economic environment of insurance and how to read and evaluate insurance contracts. Examines different types of life insurance contracts as well as savings and investment alternatives and their uses in estate planning.

FI 360 Personal Asset Management. 3 hours.

Prerequisites: AC 210.

To teach students about financial assets as vehicles for saving for the future. Students will also learn how to invest in a combination of assets to meet their objectives and how their objectives may change over their life span.

FI 389 Computerized Management Information Systems (also EC 389). 3 hours.

Prerequisites: AC 210, ST 260, and FI 302.

Introduction to the components of computerized management information systems and applications of computer-based systems to business decisions. Students may not receive credit for FI 389 and EC 389.

FI 400 Financial Institutions, Markets, and Investment. 3 hours.

Prerequisites: EC 110, EC 111, AC 210, ST 260, and FI 302.

Not open to majors in economics and finance.

Builds on the foundation laid in the business core to extend the student’s knowledge of basic finance into the areas of operation and management of financial institutions and financial markets and investments.

FI 410 Intermediate Financial Management. 3 hours.

Prerequisite: FI 302.

Development of advanced practices of financial management and their application to decision making in the business firm.

FI 411 Corporate Financial Policy. 3 hours.

Prerequisites: FI 301 and FI 302.

An integrative course designed to give the student experience in problem solving in finance. Cases will be used to permit students to apply what they know to specific business problems. Writing proficiency is required for a passing grade in this course.

FI 412 Money and Capital Markets. 3 hours.

Prerequisites: FI 301 and FI 302.

An overall view of the financing process and the role of financial markets. Areas covered are characteristics of instruments traded in money and capital markets; determinants of and the relationships between different asset prices; and international aspects of financial markets.

FI 413 Working Capital Management. 3 hours.

Prerequisite: FI 410.

FI 414 Investments. 3 hours.

Prerequisites: FI 301 and FI 302.

Study of the various investment media together with analysis models of investment management. Emphasis is on investment decision making and portfolio analysis.

FI 415 Advanced Investment Topics and Portfolio Management. 3 hours.

Prerequisite: FI 414.

Advanced models for investment management are developed and their application in decision making is discussed. Emphasis is on the use of models for portfolio selection.

FI 416 Monetary Theory and Policy (also EC 416). 3 hours.

Prerequisite: FI 301.

Analysis of the role of money in the economy and the conduct of monetary policy. Emphasis is given to the money supply process, the demand for money, and the choice of monetary-policy strategies and procedures.

FI 419 Financial Engineering. 3 hours.

Prerequisite: FI 302.

Corequisite: FI 414.

Addresses managing financial risks such as adverse stock price movements, adverse interest rate changes, and adverse commodity price changes, with specific attention given to employing futures, options, and swap contracts.

FI 421 Bank Administration. 3 hours.

Prerequisites: FI 301 and FI 302.

Survey of analytical methods in banking, including study of the powers of various government agencies. Emphasis is placed on managerial aspects of commercial banking.

FI 423 Public Finance (also EC 423). 3 hours.

Prerequisite: EC 308 with a grade of "C-" or higher.

Study of principles of taxation, government expenditures, borrowing, and fiscal administration.

FI 431 International Finance (also EC 431). 3 hours.

Prerequisite: FI 301 or EC 309 with a grade of "C-" or higher, or EC 430.

Introduction to the field of international finance. Course deals primarily with international financial markets and the macroeconomics of international financial flows. Topics include foreign exchange and international securities markets and international banking.

FI 432 Real Estate Appraisal. 3 hours.

Prerequisite: FI 302.

Study of the sources of real estate value and techniques for estimating property value; study of effective use of appraisal information.

FI 436 Real Estate Finance. 3 hours.

Prerequisites: FI 301 and FI 302.

Study of the institutions of real estate finance and of factors affecting the flow of funds; investment analysis and procedures involved in real estate financing.

FI 441 International Financial Management (also EC 441). 3 hours.

Prerequisites: FI 302 and EC/FI 431.

Study of the application of principles of financial management in an international setting, primarily from the perspective of nonfinancial, multinational firms.

FI 442 Business Risk Management. 3 hours.

Prerequisite: FI 302.

Analysis of risks facing business and governmental entities. Various methods of both controlling the risks and financing the risks, including both insurance and non-insurance alternatives. Writing proficiency is required for a passing grade in this course.

FI 443 Property and Liability Insurance. 3 hours.

Prerequisite: FI 302.

Current financial, legal, and social problems concerning the property-liability insurance industry. Role of government in providing insurance and topics in the management of property-liability insurance companies and agencies.

FI 444 Life and Health Insurance. 3 hours.

Prerequisite: FI 302.

Detailed analysis of life insurance and health insurance with emphasis on their role in employee-benefit planning. Specific provisions of qualified retirement plans. Current problems facing the life insurance industry and analysis of the distribution system for life and health insurance. Topics in management of life and health insurance companies and agencies.

FI 491 Independent Study in Finance. 1-6 hours.

Students may earn degree credit for only one independent study course (491). Individually directed research and reading.

FI 492 Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.5 or higher. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.

FI 497 Special Topics in Finance. 3 hours.**FINE ARTS (FA)**

Office: 201 Lloyd Hall

FA 200 Introduction to Fine Arts. 3 hours.

An introduction to the fine arts, drawing especially on campus and community cultural events. This course is usually open to incoming freshmen.

FINNISH (FIN)

Office: 200-D B.B. Comer Hall

FIN 101 Elementary Finnish I. 3 hours.

Contemporary Finnish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions

three hours per week with a language "trainer" who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

FIN 102 Elementary Finnish II. 3 hours.

Prerequisite: FIN 101 or consent of CLC director.

Contemporary Finnish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of the CLC director. Offered each semester.

FRENCH (FR)

Office: 228 B.B. Comer Hall

The course level at which students begin their study of French is determined by several factors. These factors include the following: the number of high-school units completed; language placement examination scores; or, for those with native or heritage competency, faculty evaluation.

Level Placement Criteria

FR 101 No prior instruction in French, fewer than two high-school units in French, instruction more than four years ago, or UA placement test

FR 102 UA credit for FR 101 or UA placement test

FR 103 Two high-school units of French or FR 101 at another institution

FR 201 Credit for FR 102 or FR 103 or UA placement test

FR 202 Credit for FR 201 or UA placement test

FR 300 Credit for FR 202 or UA placement test

FR 101 Introductory French I. 4 hours.

Introduction to basic linguistic skills and communication in French. Emphasis on discussion and writing activities. Five hours of instruction per week. This course is the first semester of college-level study in French. Offered each semester.

FR 102 Introductory French II. 4 hours.

Prerequisite: FR 101 with a grade of "C-" or higher at The University of Alabama, or permission of the department.

Second semester of introductory French. Enhanced knowledge of basic linguistic skills with a focus on communicative proficiency. Increased emphasis on discussion and writing activities that focus on current issues in the French and Francophone world. Five hours of instruction per week. Offered each semester.

FR 103 Intensive Review of Elementary French. 4 hours.

Prerequisite: Two or more high-school units of French or Elementary French I at another university.

Five hours of instruction per week. Intensive review and accelerated study of French at the first- and second-semester college level.

FR 201 Intermediate French I. 3 hours.

Prerequisite: FR 102, FR 103, or placement by the foreign language advisor.

Course goals include improvement of reading and writing proficiency, listening comprehension, and speaking skills. Offered each semester.

FR 202 Intermediate French II. 3 hours.

Prerequisite: FR 201 or placement by the foreign language advisor.

Continuation of FR 201. Offered each semester.

FR 205 Living in French House. 2 hours.

Prerequisite: Placement in FR 201 or above.

Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.

FR 206 Living in French House. 2 hours.

Prerequisite: Placement in FR 201 or above.

Students live in the French House with a native (or near native) speaker and agree to dedicate two hours per week to full language immersion with a view to increasing oral proficiency.

FR 321 Voices in French. 3 hours.

Prerequisite: FR 202 or placement examination.

Introduction to literary and cultural analysis through selected works of French cultural expression. Emphasis on expanding vocabulary and improving grammar in order to develop speaking, reading, and writing proficiency.

beyond the second year. Usually offered in the fall semester. Study abroad equivalent: FR 328.

FR 322 Advanced French Grammar. 3 hours.

Prerequisite: FR 202 or placement examination. Review of French grammar with emphasis on written exercises. Study abroad equivalent: FR 329.

FR 323 Text, Image, and Word. 3 hours.

Prerequisite: FR 202 or placement examination.

Contemporary French and Francophone society and culture. Continued work in literary and cultural analysis through selected works of recent cultural media (journalism, literature, music, film). Emphasis on written exposition, oral proficiency, critical thinking, grammar review. Usually offered in the spring semester.

FR 324 Commercial French. 3 hours.

Prerequisite: FR 202 or placement examination.

French business vocabulary and practices. Offered in the spring semester.

FR 331 French Civilization. 3 hours.

Prerequisite: FR 321, FR 322, or FR 323.

The course is also taught abroad as FR 339. Study of French artistic heritage and development of social and political institutions. Offered alternate spring semesters.

FR 341 Survey of French Literature I. 3 hours.

Prerequisite: FR 321, FR 322, or FR 323.

French literature from its origins through the 18th century. Readings from major authors, lectures, and reports. Offered alternate fall semesters.

FR 351 Survey of French Literature II. 3 hours.

Prerequisite: FR 321, FR 322, or FR 323.

French literature of the 19th and 20th centuries. Readings from major authors, lectures, and reports. Offered alternate fall semesters.

FR 361 Introduction to Romance Linguistics (same as IT 361 and SP 361). 3 hours.

Prerequisite: Any 202-level foreign language course, or equivalent proficiency and permission of the instructor.

Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

FR 380 Special Topics. 1 to 3 hours.

Directed reading, research, or French Immersion Retreat. Offered according to demand, topic to be determined in consultation with the instructor. Recent topics have included: *The French Short Story*, *The Art of Lascaux*, and *Franco-American relations*. May be repeated for a maximum of 6 hours.

FR 421 Pronunciation and Phonetics. 3 hours.

Prerequisite: FR 321, FR 322, or FR 323.

Introduction to phonetic theory and corrective phonetics through auditory discrimination exercises and contrastive analysis; emphasis on mastery of oral skills. Offered in the spring semester.

FR 431 Contemporary Civilization. 3 hours.

Prerequisites: FR 321, FR 322, or FR 323.

Exploration of the political, technological, and cultural movements of France from 1871 to the present. Offered alternate spring semesters.

FR 461 French Linguistics. 3 hours.

Prerequisites: FR 321, FR 322, or FR 323.

Linguistic theory applied in the analysis and description of French phonological, morphological, syntactic, and semantic structures. Offered alternate years.

FR 470 Undergraduate Seminar. 3 hours.

Prerequisites: FR 321, FR 322, or FR 323.

Intensive examination of a selected topic, with emphasis on student research and presentations. A representative sample of topics would include: *Francophone Africa*, *The 19-Century French Novel*, *French-English Translation*, and *Poetry of the French Renaissance*. May be repeated for a maximum of 12 hours.

FR 480 Special Topics. 1 to 3 hours.

Prerequisite: FR 321, FR 322, or FR 323.

Directed reading or research. Offered according to demand. Recent topics have included: *Québécois Literature and Culture*, *17th-Century French Literature*, and *The 20th-Century French Novel*. May be repeated for a maximum of 12 hours.

FR 484 Advanced Conversation and Phonetics in France. 3 hours.

Prerequisite: FR 321, FR 322, or FR 323.

Emphasis is on improvement of oral expression in a variety of contexts. Consideration of phonetics as it serves this goal.

FRESHMAN LEARNING COMMUNITY

Office: 200 Clark Hall

FLC 101 Freshman Learning Community. 1 to 2 hours.

This course accompanies freshman learning communities and offers expanded opportunities for collaborative and integrated learning related to the communities.

GENERAL BUSINESS ADMINISTRATION (GBA)

Dr. Rob Morgan, Department Head

Office: 104 Alston Hall

GENERAL BUSINESS

GBA 145 Orientation to Commerce and Business Administration.

1 hour.

An introduction to the Culverhouse College of Commerce and Business Administration. Topics include adjustment to college life, study skills, career exploration, and majors offered in the College.

GBA 322 Effective Negotiations. 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300 or permission of the instructor.

Negotiations are pervasive in all aspects of life. Having the ability to effectively negotiate can provide you with a competitive advantage in many situations. This course will employ negotiations exercises, expert guest speakers and additional readings to help students master negotiation skills.

GBA 481 Business Honors Seminar I. Variable credit, 0.5–1.5 hours.

Prerequisites: Junior standing and admission to the Business Honors Program.

This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 482 Business Honors Seminar II. Variable credit, 0.5–1.5 hours.

Prerequisites: Junior standing and admission to the Business Honors Program.

This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 483 Business Honors Seminar III. Variable credit, 0.5–1.5 hours.

Prerequisites: Senior standing and admission to the Business Honors Program.

This courses is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

GBA 484 Business Honors Seminar IV. Variable credit, 0.5–1.5 hours.

Prerequisites: Senior standing and admission to the Business Honors Program.

This course is interdisciplinary and emphasizes discussion and debate of contemporary business and economic issues and topics.

MANAGERIAL STRATEGY AND POLICY

GBA 300 Business Communication. 3 hours.

Prerequisite: Junior standing.

This course introduces students to the concepts central to effective and efficient communication in the workplace. Students will learn to analyze the rhetorical context that gives rise to common business genres (e.g., meeting minutes, e-mail requests, executive summaries, internal proposals, etc.). Based on rhetorical analysis, students will be able to develop content and manipulate organization and style, as well as use standard grammar and mechanics.

GBA 490 Strategic Management. 3 hours.

Prerequisites: Senior standing and completion of or enrollment in all 300-level C&BA functional field courses.

Examination of the managerial tasks of crafting and implementing strategic plans and the tools of strategic analysis. Students gain hands-on experience with tools and concepts of strategic management by participating in a business strategy simulation exercise and by analyzing actual companies.

GBA 491 Independent Study in Business. 1-3 hours.

Prerequisite: Approval of the program chairperson. Students may earn degree credit for only one independent study course (491).

Independent study in library or primary research. Not open to graduate students.

GBA 492 Management Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.5 or above. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public-sector organizations. Administered through the C&BA Student Services Office.

GBA 497 Special Topics. 3 hours.**GENERAL ENGINEERING**

Office: 112 H. M. Comer Hall

ENGR 111 Engineering the Future. 1 hour.

An introduction to the discipline of engineering and what the future of the field will involve. Focus is on developing and understanding of the discipline, the contributions that the discipline will make to society in the future, and career opportunities for students in the field.

ENGR 131 Engineering Concepts and Design I. 1 hour.

Prerequisite: MATH 112 (with concurrency)

Introductory course for students in all engineering disciplines that provide the basic skills required for engineering with an emphasis on problem solving, teaming, oral and written technical communication, and the design project.

ENGR 141 Engineering Concepts and Design II. 1 hour.

Prerequisite: ENGR 131

A second course for students in all engineering disciplines that reinforces the basic skills required for engineering with an emphasis on design, problem solving, teaming, and technical communication.

ENGR 151 Fundamental Engineering Graphics. 1 hour.

Prerequisite: MATH 112

An introduction to the fundamental principles of graphic and visual communication. Focus is on the ability to use sketching as an effective communication tool within the field of engineering.

ENGR 161 Small-scale Engineering Graphics. 1 hour.

Prerequisite: ENGR 151

Use of a commercial software package to produce three-dimensional representations of mechanical devices. Two-dimensional representations of multiviews, sections, and auxiliaries will be generated.

ENGR 171 Large-scale Engineering Graphics. 1 hour.

Prerequisite: ENGR 151

Use of a commercial software package to produce engineering drawings such as multiviews, sections and auxiliaries, isometric and oblique pictorials, dimensional drawings, as well as simple topographical and property drawings, with an emphasis on large-scale applications.

GES 255 Engineering Statistics I 3 hours.

Prerequisite: MATH 126.

Probability and basic statistical concepts; random variables; discrete and continuous distributions; sampling distributions; inferences concerning means; simple regression and correlation. Experiments demonstrating probabilistic and statistical concepts are conducted.

GES 257 Engineering Statistics II 3 hours.

Prerequisite: GES 255.

Hypothesis testing, multiple regression and correlation analysis; analysis of variance; applications in quality assurance and reliability. Experiments demonstrating the use of statistical methods are conducted.

GES 400 Engineering Statistics. 3 hours.

Prerequisite: MATH 126.

Not open to students with credit for GES 255. Not available for MSIE degree credit. Probability and basic statistical concepts. Discrete and continuous distributions; the central limit theorem; sampling distributions; point and interval estimation; hypothesis testing; regression and correlation analysis; analysis of variance.

GES 401 Operations Research. 3 hours.

Prerequisite: MATH 126

Corequisite: GES 255 or GES 400/GES 500.

Not open to students with credit for IE 363. Not available for MSIE degree credit. Model construction, linear programming, network models, dynamic models, stochastic models, queuing theory, and decision theory.

GES 418 Engineering Management. 3 hours.

Prerequisite: Junior standing.

An introduction to management principles, and the management functions of planning, organizing, motivating, and controlling. Management of research, design, manufacturing, and quality will be studied.

GES 451 Matrix and Vector Analysis. 3 hours.

Prerequisite: MATH 238.

Determinants and matrix algebra, linear simultaneous equations, eigenvalues and eigenvectors, matrix functions, computer techniques, vector algebra and calculus, and integral theorems.

DR 135 Construction Drawing. (2-4) 3 hours.

Introduction to the graphic language used by the construction industry. Covers architectural plans, elevations, sections, and pictorials, executed by freehand sketches, instrument drawings, and computer-aided drawings.

DR 350 Construction Materials and Systems. (2-0) 2 hours.

Prerequisite: DR 131.

Study of materials and systems used in residential and commercial construction. Covers the properties of these materials and their assembly.

DR 355 AutoCAD for Interior Design. (2-4) 3 hours.

Prerequisite: DR 135.

Use of AutoCAD software to produce two-dimensional architectural drawings such as floor plans, elevations, sections, and details. Explores three-dimensional views and presentation techniques.

DR 491 Special Problems (Area). 1 to 3 hours.

Prerequisite: DR 125 or DR 135.

Assigned graphics problem(s) supervised on an individual basis.

GENERAL STUDIES (GS)

Office: 200 Clark Hall

GS 101 Freshman Seminar. 1 hour.**GS 111 Academic Skills.** 1 to 3 hours.

Prerequisite: Permission of the director of the Student Support Services Program.

A one-, two-, or three-part course in academic skills for students eligible for the Student Support Services Program. Enrollment in each of the components is based on a diagnosed need. Offered in the fall and spring semesters.

GS 391 Exceptional Studies. 1 to 6 hours.

Prerequisite: Proposals must be approved prior to enrollment.

Independent study and/or research on an approved topic, under the direction of a College of Arts and Sciences faculty member. The subject matter, methodology, goals, and objectives of the study are intended to be unique.

GS 491 Arts and Sciences Academic Internship. 1 to 3 hours.

Prerequisite: Proposals must be approved prior to registration.

Students work with a faculty member on a planned and supervised activity related to the instructional, research, or service functions of the College of Arts and Sciences.

GEOGRAPHY (GY)

Office: 202 Farrah Hall

GY 101 Atmospheric Processes and Patterns. 4 hours.

Three hours lecture and one two-hour laboratory period. Earth-space relations, latitude and longitude, seasons, time, weather, climate, and vegetation. Particular attention is given to the causes of weather and climate and why they tend to be different from place to place.

GY 102 Earth Surface Processes. 4 hours.

Three hours lecture and one two-hour laboratory period. Study of earth-surface processes, with consideration of human interaction with the physical environment. Subjects include landforms, water resources, soils, and mapping the physical environment.

GY 105 World Regional Geography. 3 hours.

Introduction to geography through a survey of the world's major geographic regions. Examines their physical and cultural features, economies, and populations.

GY 110 Principles of Human Geography. 3 hours.

Introduction to geography as a science for learning the fundamentals of human behavior and decision making. Examines how human events, natural resources, economies, development, and urbanization impact the way humankind lives, organizes its space, and makes decisions for the future.

GY 155 Freshman Seminar: Emerging Global Issues. 3 hours.

Open to first-year students only.

Analysis of selected contemporary global issues and forces that shape our local communities and the world in which we live, including population, natural resources, agriculture, environmental change, and terrorism.

- GY 200 Principles of Planning.** 3 hours.
Survey of the basic elements of regional and urban planning. Provides a comprehensive overview of the planning profession.
- GY 204 Map and Air Photo Interpretation.** 4 hours.
Three hours lecture and one two-hour laboratory period. Fundamentals of map reading and interpretation.
- GY 317 Natural Hazards.** 3 hours.
Prerequisites: GY 101 and GY 102, or permission of the instructor.
Examination of the causes, consequences, and spatial distribution of climatic, geomorphic, and human-induced natural hazards.
- GY 320 Freshwater Studies** (same as BSC 320 and GEO 320). 4 hours.
Prerequisites: BSC 114:115 (or BSC 118) and either BSC 116:117, BSC 120, GEO 101, or GY 101.
Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.
- GY 330 Computer Mapping and Graphics.** 4 hours.
Prerequisite: GY 204 or permission of the instructor.
Three hours lecture and one two-hour laboratory period. Introduction to computer graphics and their application in both the natural and social sciences, with special emphasis on mapping.
- GY 339 Natural Resources and Environmental Planning.** 3 hours.
Prerequisites: 8 hours of natural science and 6 hours of social science.
Analyzes human interactions with the physical environment and ways of dealing with them. Integrates environmental science, social science, and planning, and includes environmental impact assessment.
- GY 341 Geography of the United States and Canada.** 3 hours.
Prerequisite: GY 105 or GY 110.
Study of the physical and human geography of the United States and Canada.
- GY 344 Geography of Africa.** 3 hours.
Prerequisite: GY 105 or GY 110.
Study of the physical and human geography of Africa.
- GY 350 Geography of the South.** 3 hours.
Prerequisite: GY 105 or GY 341.
Study of the physical and human geography of the southeastern United States.
- GY 351 Geography of Alabama.** 3 hours.
Prerequisite: GY 105 or GY 110.
Study of the varied geographical dimensions of the state of Alabama, both past and present.
- GY 358 Urban Geography.** 3 hours.
Prerequisite: GY 110.
Examines the growth of cities, their spatial distributions, internal dynamics, functional bases, and social and political patterns.
- GY 363 Geomorphology** (same as GEO 363). 3 hours.
Prerequisite: GY 102 or GEO 101.
Study of physical, chemical, and biological processes operating at the Earth's surface and landforms and landscapes such processes develop.
- GY 365 Industrial Development and Location.** 3 hours.
Prerequisite: GY 110 or permission of the instructor.
Systematic study of the principles and processes underlying the development, location, and spatial organization of economic activities from both a national and international perspective.
- GY 370 Special Topics in Geography.** 3 hours.
GY 377 Cultural Geography. 3 hours.
Prerequisite: GY 105 or GY 110.
Study of the way in which culture influences elements of both physical and human landscapes with emphasis on how cultures are spread over space and how cultures make sense of space.
- GY 402 Climatology.** 3 hours.
Prerequisite: GY 101.
Introduce the fundamentals of the earth-atmosphere system as they comprise the climate of Earth, drive spatial and temporal climate variability, and impact human life.
- GY 404 Physical Geography of the Southeastern United States.** 3 hours.
Prerequisites: GY 101 and GY 102 or GEO 101.
A study of the physical landscapes in the southeastern United States. Emphasis is on the geological setting, geomorphic features, climate, soils, and vegetation, and the interrelationships of these conditions that shape the landscape in this region.
- GY 405 Directed Research in Physical Geography.** 1 to 3 hours.
Prerequisites: Senior standing and permission of the department.
Hands-on problem solving in the field of physical geography.
- GY 406 Directed Research in Human Geography.** 1 to 3 hours.
Prerequisites: Senior standing and permission of the department.
Hands-on, problem solving in the field of human geography.
- GY 407 Boundary Layer Climates.** 3 hours.
Prerequisite: GY 402.
Introduce the nature of the atmosphere near the ground and the interactions these processes have with the physical, biological, and human systems on Earth.
- GY 409 Environmental Reconstruction.** 4 hours.
Prerequisite: GY 101 or GY 102.
This course covers the theories, tools, and techniques used in historical ecology with a focus on the establishment of reference conditions for habitat conservation and restoration efforts.
- GY 412 Hydroclimatology.** 3 hours.
Prerequisite: GY 402.
To provide a basic understanding of the water of Earth, especially with relation to the effects of precipitation and evaporation upon the occurrence and character of water in streams, lakes, and on or below the land surface.
- GY 418 Geography of National Parks.** 3 hours.
Prerequisite: 8 hours of geography, biological sciences, or geology.
Survey of the geographic character, purpose, and management of a selection of parks administered by the U.S. National Park Service.
- GY 420 Remote Sensing I.** 4 hours.
Prerequisite: Grade of "C-" or higher in GY 204 or permission of the instructor.
Three hours lecture and one two-hour laboratory period. Introduction to the basic principles of electromagnetic radiation, interaction between energy and earth features, remote sensing instruments, and information extraction from remotely sensed data.
- GY 424 Cartography Practicum.** 3 to 9 hours.
Prerequisites: Junior standing and permission of the department.
Individual work experience in cartography, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 424 cannot be applied to the geography minor.
- GY 425 Cartography Internship.** 3 to 9 hours.
Prerequisites: Junior standing and permission of the department.
Individual work experience on a cartographic project, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 425 cannot be applied to the geography minor.
- GY 430 Geographic Information Systems (GIS).** 4 hours.
Prerequisite: Grade of "C-" or higher in GY 204 or permission of the instructor.
Three hours lecture and one two-hour laboratory period. Introduces the basic concepts of GIS, including definition and components of GIS, spatial data structures, data sources, data input, manipulation and analysis, applications of GIS, and managing GIS.
- GY 432 Special Research in Geography.** 1 to 4 hours each semester.
Prerequisite: Permission of the department.
- GY 433 Geographic Information Systems (GIS) Practicum.** 3 to 9 hours.
Prerequisites: Junior standing and permission of the department.
Individual work experience in GIS, supervised by the faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 433 cannot be applied to the geography minor.
- GY 434 Geographic Information Systems (GIS) Internship.** 3 to 9 hours.
Prerequisites: Junior standing and permission of the department.
Individual work experience in GIS, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 434 cannot be applied to the geography minor.
- GY 435 Remote Sensing II.** 4 hours.
Prerequisite: GY 420.
Three hours lecture and one two-hour laboratory period. Analysis and extraction of thematic information from nonphotographic remotely sensed data for geographic information systems. Topics include image processing, image enhancement, and image classification.
- GY 436 Advanced Geographic Information Systems (GIS).** 4 hours.
Prerequisite: GY 430.
Three hours lecture and one two-hour laboratory period. Evaluation of case studies, spatial model development, and database design for geographic information systems.

GY 438 Application Issues in Geographic Information Systems (GIS). 4 hours.

Prerequisite: GY 420 or GY 430.

Three hours lecture and one two-hour laboratory period. In-depth study of various topics in the application and technical issues of geographic information systems.

GY 440 Community Facilities Planning. 3 hours.

Prerequisites: GY 110; and GY 200 or permission of the instructor.

Principles, processes, and analysis of public facility location planning, with emphasis on the spatial search process, impact analysis, and public facility location models.

GY 441 Land Use Regulations. 3 hours.

Prerequisite: GY 200 or permission of the instructor.

Theory and use of zoning, eminent domain, taxing and police powers, enabling acts, charters, official maps, codes, nuisance ordinances, and environmental impact statements in community planning.

GY 444 Field Studies in Africa. 6 hours.

Prerequisite: GY 105 or permission of the instructor.

Three-week intensive field study in Ghana. Explores geographical perspectives on Africa's level of development and the responses of the African peoples to their circumstances.

GY 452 Environmental Decision Making. 3 hours.

Prerequisites: GY 101, GY 102, and 6 hours of social science; or permission of the instructor.

Review of the history of natural resources in the U.S. and current environmental topics, followed by discussion of techniques to facilitate environmental decision making and management.

GY 453 Environment and Society (same as SOC 444). 3 hours.

Prerequisites: GY 110 and 9 hours of additional social science.

Exploration of the linkages between the biophysical environment and human social systems. Public policy implications are viewed from a social science perspective.

GY 455 Planning Practicum. 3 to 9 hours.

Prerequisites: Junior standing and permission of the department.

Individual work experience in planning, supervised by faculty and staff of The University of Alabama. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 455 cannot be applied to the geography minor.

GY 456 Planning Internship. 3 to 9 hours.

Prerequisites: Junior standing and permission of the department.

Individual work experience in planning, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 456 cannot be applied to the geography minor.

GY 458 Urban Planning and Analysis. 3 hours.

Prerequisites: GY 110; GY 358 or permission of the instructor.

A study of contemporary urban landscapes, political and economic power structures, and resultant conflicts. Includes an in-depth analysis of the role of externalities, the urban planner, urban policymaking, and analytical methods in the planning and administration of urban landscapes.

GY 460 Environmental Management. 3 hours.

Prerequisites: GY 101 or GY 102, and GY 200.

Introduces students to the impact of humans on the planet and the patterns of human behavior necessary to preserve and manage the environment in a self-sustaining manner. Emphasis is on writing and speaking.

GY 461 Social Impact Assessment. 3 hours.

Prerequisites: GY 101 and SOC 101.

This course focuses on the theories, philosophies, and methodologies of assessing the social consequences of environmental change.

GY 465 Regional Planning and Analysis. 3 hours.

Prerequisites: GY 110; GY 200 or permission of the instructor.

Principles and processes of regional planning and the analytical methods appropriate for solving regional planning problems. Case studies and the role of the planner in the regional planning process are discussed.

GY 466 Regional and Urban Transportation Systems. 4 hours.

Prerequisites: GY 110 and 9 additional hours of social science, or permission of the instructor.

Examines the location and function of the multimodal North American transportation system, the urban transportation planning process and methodologies. Assesses the political and environmental contexts of transport systems, including impacts of continued reliance on the automobile.

GY 467 Topics in Global Environmental Change. 3 hours.

Prerequisites: Senior standing and 12 hours of natural science.

Review and discussion of changes in the physical environment, both natural

and human-made. Emphasis is on deforestation, changing land use, and recent climate changes.

GY 470 Special Topics in Geography. 3 hours.

GY 472 Soil Science. 4 hours.

Prerequisite: 8 hours of natural science.

Three hours lecture and required field and lab work. Introduction to the study of soils, including soil formation, classification, and the interpretation of soils to reconstruct environmental histories.

GY 483 Environmental Science Internship. 3 to 9 hours.

Prerequisites: Junior standing and permission of the department.

Individual work experience in environmental science, supervised by the staff of an off-campus agency. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 483 cannot be applied to the geography minor.

GY 486 Watershed Dynamics. 3 hours.

Prerequisite: GY 102 or permission of the instructor.

An examination of the physical operation of watersheds focusing on surface water hydrology, erosion, and sedimentation.

GY 488 Planning and Government. 3 hours.

Prerequisite: GY 200.

Examines the planning process within the context of local government.

GY 489 Forest Ecology and Vegetation Analysis. 4 hours.

Prerequisites: GY 101, GY 102, and BSC 116: 117.

Three hours lecture and required field work. Study of the nature of forest communities and the interrelationship of organisms that compose them.

GY 490 Geography Internship. 3–9 hours.

Prerequisites: 18 hours of geography and permission of the department.

Work experience in an agency involved in geographical analysis. A maximum of 3 hours of internship or practicum credit can be applied to the geography major. Credit for GY 490 cannot be applied to the geography minor.

GEOLOGICAL SCIENCES (GEO)

Office: 202 Bevill Building

GEO 101 The Dynamic Earth. 4 hours.

Three lectures and one laboratory. Study of the earth including materials, internal and external processes, deformational events, and plate tectonics. Offered in the fall, spring, and summer semesters.

GEO 102 The Earth Through Time. 4 hours.

Three lectures and one laboratory. Survey of earth's history including origin of the earth, plate tectonics and evolution of the continents and ocean basins, and the development of life. Offered in the fall, spring, and summer semesters.

GEO 105 Sustainable Earth. 4 hours

Three lectures and one laboratory. Lecture and laboratory provide an understanding of important earth resources (rocks and minerals, soil, water, fossil fuels, alternative energy) and how their utilization by humans impacts the environment. Includes discussion of water pollution, air pollution and waste disposal as primary issues related to resource utilization.

GEO 210 Mineralogy. 4 hours.

Prerequisites: GEO 101 and CH 101.

Two lectures and two laboratories. Introduction to crystallography, crystal chemistry, rock-forming minerals, physical properties of minerals, hand sample mineral identification, and optical mineralogy. Offered in the fall semester.

GEO 304 Marine Geology (same as MS 304). 4 hours.

Prerequisite: GEO 101.

GEO 306 Hydrogeology. 3 hours.

Prerequisite: GEO 101 or permission of the instructor.

Introduction to the principles of groundwater flow, groundwater exploration, water quality, and groundwater contamination; environmental topics in groundwater. Offered in the fall semester.

GEO 314 Igneous and Metamorphic Petrology. 4 hours.

Prerequisite: GEO 210.

Three lectures and one laboratory. Megascopic and microscopic study of igneous and metamorphic rocks, with emphasis on identification, classification, genesis, and relationships to tectonism. Offered in the spring semester.

GEO 320 Freshwater Studies (same as BSC 320 and GY 320). 4 hours.

Prerequisites: BSC 114:115 (or BSC 118) and either BSC 116:117, BSC 120, GEO 101, or GY 101.

Lecture and laboratory. Introduction to freshwater natural history and ecology with specific emphasis on the common freshwater habitats of Alabama.

GEO 340 Earthquakes, Eruptions, and Civilizations. 3 hours.

Prerequisites: any 100-level geology class.

This course will investigate the development of human perceptions of tectonic events and their impact on civilization. Offered according to demand.

GEO 355 Invertebrate Paleontology. 3 hours.

Prerequisite: GEO 101 or GEO 102.

Two lectures and one laboratory. Study of the taxonomy and morphology of major invertebrate fossil groups. Offered in the spring semester.

GEO 363 Geomorphology (same as GY 363). 3 hours.

Prerequisite: GEO 101.

Two lectures and one laboratory. Study of landforms with emphasis on the basic geomorphic processes that contribute to their origin. Offered in the fall semester.

GEO 365 Structural Geology. 3 hours.

Prerequisites: GEO 101 and PH 101, or permission of the instructor; a working knowledge of trigonometry is assumed.

Two lectures and one laboratory. An introductory study of the deformation of rocks, including mechanical principles, description and identification of folds and faults, map interpretation, and regional tectonics. Offered in the fall semester.

GEO 367 Sedimentology and Stratigraphy. 4 hours.

Prerequisites: GEO 101, GEO 102, and GEO 210.

Three lectures and one laboratory. Study of the principles involved in the description and classification of sedimentary rocks and stratigraphic units, with emphasis on sedimentary processes and depositional environments. Offered in the spring semester.

GEO 369 Introduction to Geophysics. 3 hours.

Prerequisites: GEO 101, PH 102, and MATH 125 (or MATH 145) or equivalent.

Introduction to the major fields of exploration geophysics such as seismology, isostasy, heat flow, gravity and magnetic prospecting, and electrical methods. The course includes both principles and applications to petroleum, mining, and environmental problems. Offered in the fall semester.

GEO 399 Undergraduate Research in Geology. 1 to 3 hours.

A maximum of 3 hours can be applied toward the major in geology. Approval of the department chairperson is required prior to registration. Offered according to demand.

GEO 400 Recent Marine Sedimentation. 4 hours.

Prerequisites: GEO 101 and GEO 102.

Survey of recent marine processes and depositional environments with emphasis on clastic environments of the Gulf Coast. Offered according to demand during the summer session only.

GEO 401 Paleoclimatology. 3 hours.

Prerequisite: GEO 101 or GEO 102.

Survey of the history of global climate change and the methods used to measure paleoclimate in the geological record. Offered in the fall semester.

GEO 404 Quaternary Climates and Environments. 3 hours.

Prerequisite: GEO 102 or permission of the instructor.

Outline of the climatological and environmental history of the past two million years, focusing on causes and impact of glacial and shorter oscillations. Offered according to demand.

GEO 409 Hydrogeology Field Methods. 2 hours.

Prerequisite: GEO 306.

Introduction to the commonly used field and laboratory methods in hydrogeologic studies, including aquifer test design and analysis, water quality sampling, site characterization and remedial investigation. Offered according to demand.

GEO 410 Soil and Groundwater Restoration. 3 hours.

Prerequisites: GEO 101 and CH 102.

Methods for restoring contaminated soil and groundwater by examining the factors and processes that influence the efficacy of remediation systems. Emphasis placed on the scientific principles that form the basis for remediation. Offered according to demand.

GEO 414 Advanced Igneous Petrology. 3 hours.

Prerequisite: GEO 314.

Study of igneous processes with emphasis on phase relations, geochemical evolution, and physiochemical conditions. Offered in the fall semester.

GEO 416 Volcanology. 3 hours.

Prerequisite: GEO 101.

Study of the physical properties of magmas, eruptive mechanisms, volcanic products, and the relationship between volcanism and tectonism. Offered in the fall semester.

GEO 420 Petroleum Geology. 3 hours.

Prerequisite: GEO 365, GEO 367, or permission of the instructor.

Introduction to the origin, migration, accumulation, and entrapment of petroleum. Emphasis is on sedimentary, geochemical, and hydrodynamic processes. Offered in the spring semester of even-numbered years.

GEO 424 Topics in Geology. 1 to 4 hours.

Prerequisite: Permission of the instructor.

Special topics in the following areas: economic geology, geochemistry, geophysics, geomorphology, hydrogeology, mineralogy, paleontology, petrology, sedimentology, stratigraphy, structural geology, and tectonics. Offered according to demand.

GEO 430 Ore Deposits. 3 hours.

Prerequisite: GEO 210 and permission of the instructor.

Introduction to sedimentary, hydrothermal, metasomatic, and magnetic ore deposits, including geologic setting and genesis. Offered according to demand.

GEO 435 Honors Seminar I. 1 hour.

Oral presentations on current geological topics. Offered in the fall semester.

GEO 436 Honors Seminar II. 1 hour.

Oral presentations on current geological topics. Offered in the spring semester.

GEO 445 Multichannel Seismic Processing. 4 hours.

Prerequisites: MATH 125 (or MATH 145) and PH 102.

Introduction to multichannel seismic data acquisition, processing, and interpretation. Includes the theory of wave propagation, time series analysis, and filtering. Lab is problem-based using real-world data and examples. Offered according to demand.

GEO 446 Scientific Computing. 3 hours.

Prerequisite: Two GEO 200 or 300 level courses.

This course covers a broad range of computational methods used in the geosciences. Topics include data analysis, manipulation and image processing, using a variety of software packages. Offered according to demand.

GEO 453 Introduction to Micropaleontology. 3 hours.

Prerequisite: GEO 355.

Introduction to the morphology, classification, and distribution of important microfossil groups. Offered according to demand.

GEO 457 Geologic History of the Vertebrates and Land Plants.

3 hours.

Prerequisite: GEO 102.

Geologic history of vertebrates, invertebrates, and plants as they invaded and evolved on the land. Offered according to demand.

GEO 460 Watershed Hydrology. 3 hours.

Prerequisite: GEO 363 or permission of the instructor.

Analysis of hydrological processes in watersheds. Emphasis on applying hydrology concepts to evaluate runoff, erosion, fluvial processes, channel stability, ecological impact, and flood prediction in natural and altered watersheds. Offered according to demand.

GEO 470 General Geochemistry. 3 hours.

Prerequisite: GEO 314 or permission of the instructor.

Overview of the field of geochemistry (elementary chemical equilibria and thermodynamics, organic geochemistry, isotope geochemistry), with an emphasis on solving geologic problems. Offered in the fall semester.

GEO 476 Analytical Geochemistry. 3 hours.

Prerequisite: Senior standing or permission of the instructor.

Theory, techniques, and applications of geochemical methods for the analysis of rocks, soils, and aqueous fluids. Offered according to demand.

GEO 490 Seminar in Regional Geology. 1 to 3 hours.

Prerequisite: permission of the instructor.

Seminar on and field trip to important geologic localities. May be repeated for credit. Offered according to demand.

GEO 492 Geologic Field and Writing Techniques. 2 hours.

Corequisite: GEO 367 or permission of the instructor.

Introduction to the methods of field geology, geology of the southeastern U.S., geological writing, and presentation techniques. Offered according to demand.

GEO 495 Field Geology. 6 hours.

Prerequisites: GEO 314, GEO 365, and GEO 367.

Five-week field course involving the application of geologic techniques and principles. Includes geologic mapping, data collection, and report writing. Offered during the first summer term.

GEO 497 Geological Internships. 3 hours

Prerequisites: GEO 101 and GEO 102 or GEO 105. Minimum grade of "C-" or higher required in prerequisites.

Field and laboratory projects with government and industry. Offered according to demand.

GEO 499 Honors Research in Geology. 1 to 3 hours. Offered according to demand.**GERMAN (GN)**

Office: 200-F B.B. Comer Hall

The course level at which students begin their study of German is determined by several factors. These factors include the following: the number of high-school units completed; language placement examination scores; or, for those with native or heritage competency, faculty evaluation.

Level Placement Criteria

GN 101	No prior instruction in German, fewer than two high-school units in German, instruction more than four years ago, or UA placement test
GN 102	UA credit for GN 101 or UA placement test
GN 103	Two high-school units of German, GN 101 at another institution, or faculty evaluation.
GN 201	Credit for GN 102 or GN 103 or UA placement test
GN 202	Credit for GN 201 or UA placement test
GN 361	Credit for GN 202 or faculty evaluation

GN 101 Elementary German I. 4 hours.

First semester German language course. Class meets five times a week.

GN 102 Elementary German II. 4 hours.

Prerequisite: GN 101 with a grade of "C-" or higher, or language department placement.

Second semester German language course. Class meets five times a week.

GN 103 Accelerated Elementary German. 4 hours.

Intensive, accelerated study of first and second semester German language curriculum. Class meets five times a week.

GN 201 Intermediate German I. 3 hours.

Prerequisite: GN 102 or GN 103 with a grade of "C-" or higher.

Third semester German language course.

GN 202 Intermediate German II. 3 hours.

Prerequisite: GN 201 with a grade of "C-" or higher.

Fourth semester German language course.

GN 205 and GN 206 Living in the German House I and II. 2 hours each semester.

Students living in the German House agree to speak only German, under the supervision of a house director who is a native speaker of German.

GN 250 Germanic Mythology (same as WL 250). 3 hours.

Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

GN 254 Survey of German Cinema. 3 hours.

An overview of German cinema from Silent Era in the 1920s through New German Cinema to post-Wall works. Topics include history, socio-cultural frame, directors, and cinematography.

GN 260 The Holocaust in Film and Literature (same as WL 260).

3 hours.

An exploration of the aesthetic and ethical issues involved in artistic representations of the Holocaust.

GN 264 German Literature in Translation I. 3 hours.

A survey in English of German literary masterpieces ranging from the Ring of the Nibelungs and Tristan and Isolde to Goethe's Faust. Themes include love, myth, religious freedom, war and peace, and nationhood.

GN 265 German Literature in Translation II. 3 hours.

A survey in English of German literary masterpieces of the 19th and 20th centuries. Themes include communism and capitalism, Hitler and the Holocaust, gender, and the responsibility of scientists. Authors include Kafka, Hesse, Mann, and Grass.

GN 270 Special Topics. 3 hours.

Topic varies. No knowledge of German is required.

GN 275 Germany and Contemporary Europe. 3 hours.

Study of Germany's place in today's Europe; political, social, and cultural aspects are examined.

In addition to the stated prerequisites, all 300-level German courses except GN 352 have as a prerequisite 14 hours of coursework in German, or permission of the instructor.

GN 352 German Play Production. 3 hours.

Prerequisite: By audition.

The final goal of this course is the production of a play in German. Through this experience, the student will increase facility in the language.

GN 361 Intermediate Conversation and Composition I. 3 hours.

Prerequisite: GN 202 or GN 112 with a grade of "C-" or higher or placement.

Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.

GN 362 Intermediate Conversation and Composition II. 3 hours.

Prerequisite: GN 361, with a grade of "C-" or higher, or permission of instructor.

Emphasis is on increasing speaking and writing skills in German. Includes essay writing and grammar review.

GN 365 Business German. 3 hours.

Prerequisite: GN 361 or GN 362, with a grade of "C-" or higher, or permission of instructor.

Acquisition of business German used in commercial transactions. Emphasis is on business letters and business conversation.

GN 371 German Culture and Civilization: Beginnings through 1832. 3 hours.

Prerequisite: GN 361 or GN 362, with a grade of "C-" or higher, or permission of instructor.

A survey of German cultural history from the Germanic tribes through the Age of Goethe. Emphasis is on developments in philosophy, religious thought, music, art, architecture, and popular culture in the context of political and social history.

GN 372 German Culture and Civilization: 1832 to 1989. 3 hours.

Prerequisite: GN 361 or GN 362, with a grade of "C-" or higher, or permission of instructor.

A survey of German cultural history from the 1830s through the end of the Second World War and beyond.

GN 381 Directed Readings. 1 to 3 hours.

Prerequisite: Instructor permission required.

In addition to the stated prerequisites, all 400-level German courses have as a prerequisite 20 hours of coursework in German, or permission of the instructor.

GN 403 Undergraduate Seminar. 3 hours.

Prerequisite: GN 371 and/or GN 372 with a grade of "C-" or higher, or permission of the instructor.

Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.

GN 404 Undergraduate Seminar. 3 hours.

Prerequisite: GN 371 and/or GN 372 with a grade of "C-" or higher, or permission of instructor.

Intensive study of one or more significant subjects, authors, periods, works, or genres not studied in depth in other courses.

GN 450 Intermediate Business German. 3 hours.

Prerequisite: GN 365.

Expands and deepens knowledge of business German and prepares students for such internationally recognized business German examinations as the Zertifikat Deutsch für den Beruf and Prüfung Wirtschaftsdeutsch International.

GN 461 Advanced German Conversation and Composition I. 3 hours.

Prerequisite: GN 362, with a grade of "C-" or higher, or permission of instructor.

A continuation of GN 361 and GN 362. Readings in current German newspapers and periodicals. Discussion, essay writing, and oral reports in German.

GN 462 Advanced German Conversation and Composition II. 3 hours.

Prerequisite: GN 362, with a grade of "C-" or higher, or permission of instructor.

Discussion based on readings in current German newspapers and periodicals, news broadcasts, and film clips. Discussion, essay writing, and oral reports in German.

GN 481 Directed Readings. 1 to 4 hours.

Students planning to enroll should confer with the instructor before registration.

GN 482 Directed Readings. 1 to 4 hours.

Students planning to enroll should confer with the instructor before registration.

GLOBAL STUDIES CERTIFICATE PROGRAMS (GSC)

Office: 135 B.B. Comer Hall

CIP 200 Introduction to Global Studies. (3-0) 3 hours.

Designed as the first course to be taken in the Global Studies Certificate Program (15 hours) to introduce the undergraduate student to the cultural, economic, physical, and political aspects of being a world citizen in the 21st century. The emphasis of this course is the contemporary rather than the historical and will set the philosophy for the students' approach to the entire Global Studies Certificate curriculum, both core and emphasis area courses. (See Capstone International on p. 46 for curriculum details.)

GREEK (GR)

(SEE ALSO LATIN AND CLASSICS)

Office: 239 B.B. Comer Hall

GR 101 Beginning Greek I. 3 hours.

Fundamentals of Greek grammar and syntax. Offered in the fall semester.

GR 102 Beginning Greek II. 3 hours.

Prerequisite: GR 101 with a grade of "C-" or higher, or language department placement.

Continued study of the fundamentals of Greek grammar and syntax. Offered in the spring semester.

GR 201 Intermediate Greek I. 3 hours.

Prerequisite: GR 102 or equivalent.

Introduction to and practice in reading Greek literature, particularly Homer's *Iliad*.

GR 202 Intermediate Greek II. 3 hours.

Prerequisite: GR 201 or equivalent.

An introduction to Greek prose with an emphasis on Xenophon's *Anabasis*.

GR 301 Advanced Greek I. 3 hours.

Prerequisite: GR 202 or equivalent.

Select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 302 Advanced Greek II. 3 hours.

Prerequisite: GR 301 or equivalent.

More select readings from Greek prose and poetry. An effort is made to accommodate the student's special interests. Offered according to demand.

GR 490 Greek Literature. 3 hours.

Prerequisite: GR 302 or equivalent.

Select readings in Greek literature. An effort is made to accommodate the student's special interests. The course may be repeated for credit. Offered according to demand.

HEALTH CARE MANAGEMENT (HCM)

Dr. Rob Morgan, Department Head

Office: 104 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in a 300- or 400-level course in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

HCM 370 Introduction to Health Systems. 3 hours.

Prerequisites: EC 110, AC 210, and LGS 200.

Detailed study of components of the health care delivery system in the United States. The course emphasizes history, roles, and interactions of the various providers, consumers, and governments.

HCM 371 Analysis of Health Care Systems. 3 hours.

Prerequisite: HCM 370. May be taken with HCM 473.

Analysis of operations within health care institutions.

HCM 472 Legal Aspects of Health Care (also LGS 472). 3 hours.

Prerequisite: HCM 370. May be taken with HCM 473.

Examination of the broad areas of the law that have an impact on the operation of health care institutions.

HCM 473 Survey of Issues in Health Care Management. 3 hours.

Prerequisites: Senior standing and HCM 370.

Corequisite: HCM 371.

Examination of current issues in health care, including health care policies and their effect on the health care industry.

HCM 475 Principles of Managed Health Care. 3 hours.

Prerequisite: HCM 370.

This course examines the fundamental tenets and practice of managed care organizations as well as current issues and potential developments in the management of health care.

HCM 476 Principles of Long-Term Care. 3 hours.

Prerequisite: HCM 370.

Corequisite: HCM 371.

The focus of this class will be on organizational platforms for delivering long-term health care, licensing and regulatory issues facing long-term care and operational and strategic issues facing long-term care.

HCM 477 Principles of Ambulatory Care Management. 3 hours.

Prerequisites: HCM 370 and HCM 371.

The purpose of this course is to help students understand the management issues in today's ambulatory care sector.

HCM 491 Independent Study in Health Care Management. 1-3 hours.

Students may earn degree credit for only one independent study course (491).

HCM 492 Internship. 1-3 hours.

Prerequisites: For HCM majors only and HCM 370 and HCM 371. May be taken with HCM 473.

Supervised administrative work experience in the health care industry.

HCM 497 Special Topics. 3 hours.

HEALTH STUDIES (HHE)

Professor Lori Turner

Office: 208 East Annex

Department Head

HHE 270 Personal Health. 3 hours.

A thoughtful discussion of individual, social, environmental, and political factors that influence personal health and well-being.

HHE 273 Community and Public Health. 3 hours.

Prerequisite: HHE 270.

Methods and techniques by which community health workers identify and measure the scope and intensity of health problems.

HHE 370 Principles and Foundations of Health Promotion. 3 hours.

Prerequisite: HHE 273.

The course examines the role of health education/health promotion and includes an orientation to the profession and consideration of current trends, problems, and issues in health education.

HHE 378 Drug Awareness/Education. 3 hours.

Prerequisite: HHE 273 or permission of the department chairperson.

Introduction to topics associated with drug-taking behavior, emphasizing drug education. Physiological, psychological, and sociological aspects of drug-taking behavior are examined.

HHE 440 Stress Management. 3 hours.

An examination of the psychophysiology of the stress response and indicators of excessive stress. Stress management techniques are examined and taught.

HHE 467 Design and Evaluation of Health Promotion Programs. 3 hours.

Prerequisite: HHE 370 or permission of the department chairperson.

Designed to help health educators develop competencies in program design, implementation, and evaluation.

HHE 468 Practical Applications in Health Communications and Health Promotion. 3 hours.

Prerequisite: HHE 370 or permission of the department chairperson.

A lecture/demonstration/discussion course designed to help health educators develop competencies in program applications, with particular attention to the needs assessment process and health communication techniques.

HHE 488 Internship in Community Health. 1 to 12 hours.
Directed internship in a community health agency, business, clinic, or other health-related setting; observation and on-the-job experience through direct participation.

HHE 496 Independent Study in Health Education. 1 to 6 hours.
Designed to provide the opportunity for independent work in any area of health education/health promotion.

HEBREW (HEB)

Office: 200-D B.B. Comer Hall

HEB 101 Elementary Hebrew I.

3 hours.
Contemporary Hebrew—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HEB 102 Elementary Hebrew II.

3 hours.
Prerequisite: HEB 101 or equivalent.

Contemporary Hebrew—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

HEB 201 Intermediate Hebrew I.

3 hours.
Prerequisite: HEB 102 or consent of CLC director.

Continuation of Hebrew language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.

HEB 202 Intermediate Hebrew II.

3 hours.
Prerequisite: HEB 201 or consent of CLC director.

Continuation of HEB 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without consent of CLC director. Offered according to demand.

HINDI (HIN)

Office: 200-D B.B. Comer Hall

HIN 101 Elementary Hindi I.

3 hours.
Contemporary Hindi—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

HIN 102 Elementary Hindi II.

3 hours.
Prerequisite: HIN 101 or equivalent.

Contemporary Hindi—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

HISTORY (HY)

Office: 202 ten Hoor Hall

HY 101 Western Civilization to 1648.

3 hours.
A history of Western civilization from its origins in Greece and Rome through the Middle Ages, the Renaissance and Reformation, and the age of discovery and expansion during the emergence of modern Europe. Usually offered in the summer session.

HY 102 Western Civilization since 1648.

3 hours.
Covers the development of the Western world from the Thirty Years’ War to the post–World War II era: the age of absolutism, the Enlightenment, the French Revolution, industrialization, and the wars of the 20th century. Usually offered in the summer session.

HY 105 Honors Western Civilization to 1648.

3 hours.
Prerequisite: Invitation of the department or membership in the University Honors Program.

Honors sections of HY 101.

HY 106 Honors Western Civilization since 1648.

3 hours.
Prerequisite: Invitation of the department or membership in the University Honors Program.

Honors sections of HY 102.

HY 110 Comparative World Civilizations.

3 hours.
Examines various civilizations in the world prior to A.D. 1500 and compares their governments, societies, economies, religions, science, learning, and technology. History majors may substitute HY 110 for HY 101 to satisfy part of the Western civilization requirement.

The following 200-, 300-, and 400-level courses are open to all students of sophomore standing or higher.

HY 200 Special Studies in History.

HY 203 American Civilization to 1865.

3 hours.
A survey of American history from its beginning to the end of the Civil War, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 204 American Civilization since 1865.

3 hours.
A survey of American history from the Civil War to the present, giving special emphasis to the events, people, and ideas that have made America a distinctive civilization. Open to freshmen.

HY 205 Honors American Civilization to 1865.

3 hours.
Prerequisite: Invitation of the department or membership in the University Honors Program.

An honors-level approach to the American experience; parallel to HY 203. Open to freshmen.

HY 206 Honors American Civilization since 1865.

3 hours.
Prerequisite: Invitation of the department or membership in the University Honors Program.

An honors-level approach to the American experience; parallel to HY 204. Open to freshmen.

HY 225 History of Alabama to 1865.

3 hours.
State history under the flags of Spain, France, Great Britain, the U.S., and the Confederate States, with emphasis on cultural heritage.

HY 226 History of Alabama since 1865.

3 hours.
Survey of Alabama’s history and personalities since 1865: Reconstruction, agrarian revolt, Progressivism, the KKK, Dixiecrats, and the Civil Rights movement.

HY 235 History of the Christian Church to 1500 (same as CL 235).

3 hours.
Survey of the Christian church from its origins in the Middle East through its victory over the Roman Empire and its ascendancy in the Middle Ages.

HY 236 History of the Christian Church since 1500 (same as CL 236).

3 hours.
Cultural and institutional history of the Christian church with emphasis on the Reformation and Counter-Reformation and discussion of the church in the New World.

HY 237 Colonial Latin America.

3 hours.
Formation of the largely Spanish-speaking New World, from the shock of conquest to the trials of freedom that spawned the modern nations of Latin America.

HY 238 Modern Latin America since 1808.

3 hours.
Survey of political, economic, and social life in the 19th and 20th centuries, with emphasis on the larger countries (Brazil, Mexico, and Argentina).

HY 243 Asian Civilization to 1500.

3 hours.
Broad survey of Asian civilization from the earliest times covering India, China, Korea, Japan, and Southeast Asia, with largely cultural and religious emphases.

HY 244 Modern Asia since 1500.

3 hours.
Conditions of various Asian civilizations in the 16th century, followed by the arrival of Europeans, with emphasis on imperialism, colonialism, and Asian nationalism.

HY 247 England to 1688.

3 hours.
History of Western civilization in one country, from Anglo-Saxon times to the growth of absolutism and resistance.

HY 248 England since 1688. 3 hours.

England from the Glorious Revolution to the post-World War II era, with emphasis on social and cultural topics as well as foreign affairs.

HY 295 Naval History of the United States. 3 hours.

Traces the development of the U.S. Navy from sailing ships to nuclear vessels, and relates it to political and economic conditions and to wars throughout American history.

HY 300 Special Studies in History. 3 hours.

HY 301 Independent Study. 1 to 3 hours.

Directed study done by special arrangement with a faculty member of the History Department. Requires sophomore standing and permission of the instructor.

HY 306 Topics in the History of Asian Thought and Culture. 3 hours.

Examination of major developments and trends in Asian cultural and intellectual history. Topics vary.

HY 309 History of Korean Civilization to 1600. 3 hours.

Korea from ancient times to the mid-17th century, with emphasis on the cultural, social, and intellectual developments in traditional Korean civilization.

HY 310 History of Modern Korea since the 1600s. 3 hours.

Korea from the mid-Chosun (YI) Dynasty after the Japanese and Manchu invasions, to the present time, with emphasis on the 20th century.

HY 311 Reform Movements in Antebellum America. 3 hours.

Explores the origins and course of efforts to reform the American mind, spirit, body, and social order in the decades before the Civil War.

HY 312 American South before 1865. 3 hours.

The South from colonial times to the Civil War, tracing the growth of the plantation system, extension of the frontier, commerce and industry, cultural influences, and the institution of slavery.

HY 313 American South since 1865. 3 hours.

History of the South since 1865, covering Reconstruction, the Bourbon Democracy, the New South Creed, populist revolt, World War I, the 1920s, the Great Depression, the civil rights movement, and Southern politics.

HY 314 The Coming of the Civil War. 3 hours.

American history from 1815 to 1861, giving special emphasis to the development of a distinctive American culture and the factors within that culture that led to the Civil War.

HY 315 The Civil War. 3 hours.

The military, political, diplomatic, social, and intellectual aspects of the Civil War years, and the impact of the war on subsequent American history.

HY 316 Life and Legend of Abraham Lincoln. 3 hours.

The life and legend of the man often considered to be the representative American.

HY 318 U.S. since 1945. 3 hours.

Topical survey of the economic, social, political, and cultural developments in the United States since World War II.

HY 319 Nineteenth-Century Black History (same as AAST 319).

3 hours.

Role of black Americans in American life from the 17th century to the beginning of the 20th century, with emphasis on the institutions and events of the 1800s.

HY 320 Twentieth-Century Black History (same as AAST 320). 3 hours.

The interrelationship of blacks and the industrial-urban environment of the United States.

HY 321 Religion in Modern Europe. 3 hours.

A survey of religious thought and practice in Europe since 1750.

HY 323 Constitutional History of the U.S. to 1877. 3 hours.

Deals with the evolution of constitutional law and the nature and process of judicial review, including 18th-century constitutional theory and Supreme Court decisions.

HY 324 Constitutional History of the U.S. since 1877. 3 hours.

Continuation of HY 323, tracing developments up to the current Supreme Court.

HY 325 Rise of the U.S. as a World Power, 1775–1898. 3 hours.

Emphasizes idealism and realism in foreign policy, the change from isolationism to international involvement, "New Manifest Destiny," and the rise of America to world power.

HY 326 U.S. as a World Power, 1898 to the Present. 3 hours.

Emphasizes American international involvement through the Panama Canal, the Roosevelt Corollary, World War I and the League of Nations, Pearl Harbor and World War II, the Cold War, Vietnam War, and after.

HY 330 Civil Rights Movement. 3 hours.

History of the leaders, organizations, and events of the Civil Rights Movement during the years 1945 to 1968.

HY 337 American Culture since 1890. 3 hours.

Survey of major changes in American ideas, values, and behavior through the Victorian, Modernist, and Post-Modernist eras. Particular emphasis is on popular culture.

HY 341 History of the U.S.-Vietnam War. 3 hours.

Survey of the historical background of the conflict in Indochina leading to U.S. involvement and its consequences.

HY 349 History of Modern France, 1760–present. 3 hours.

This course examines major trends in the social, cultural, economic, and political history of modern France. Major themes include: republicanism and citizenship, nationalism, daily life, war, class conflict, consumerism, imperialism, the arts, and gender.

HY 353 Nazi Germany: 1933–1945. 3 hours.

Study of the National Socialist state in Germany with emphasis on the seizure and consolidation of power, the pacification of power blocs, and the aggressive moves that culminated in World War II and genocide.

HY 357 World War I. 3 hours.

"The war to end all wars," from the European crises culminating at Sarajevo in 1914 to peacemaking at Versailles in 1919, with emphasis on the western and eastern fronts and on the war at sea.

HY 358 World War II. 3 hours.

The global conflict, or series of conflicts, from Manchukuo in 1931 to Tokyo Bay in 1945, with emphasis on battles on land and sea and in the air, life on the home fronts and in enemy-occupied areas, and the legacy of the war to future generations.

HY 361 Russia to 1894 (same as RUS 351). 3 hours.

Political history of Russia from the ninth to the 19th centuries, followed by social and cultural history of the Russian revolutionary movement.

HY 362 Russia and the Soviet Union since 1894 (same as RUS 352). 3 hours.

Crisis in Russian society and the coming of the Revolution; the emergence of Stalinism; and political developments since World War II, including the disintegration of the Soviet system.

HY 365 European Consumer Society, 1700–present. 3 hours.

Prerequisite: HY 102 or HY 106.

This course explores the evolution of modern Europe's consumer society from the eighteenth century to the present to understand how changing patterns of consumption fostered new relationships between individuals and the material world.

HY 377 Mexico since 1810. 3 hours.

Mexican Independence, the Constitution of 1824, Santa Anna, revolutions in the 19th and 20th centuries, and contemporary Mexico.

HY 384 Ancient Egypt and the Near East. 3 hours.

HY 385 History of Greece. 3 hours.

HY 386 History of Rome. 3 hours.

HY 390 Survey of Irish History. 3 hours.

A comprehensive look at the Irish experience from prehistoric times to the present.

HY 393 British Empire and Commonwealth. 3 hours.

Rise and fall of the British Empire: its creators, bureaucracy, wars, ideas, and the forces that transformed it.

HY 395 History Colloquium. 3 hours.

Intensive reading, writing, and discussion on special topics in history.

HY 399 History Honors Colloquium. 3 hours.

Focuses on the discipline of history itself. Will examine some of the fundamental questions about what history is and why the study of history matters. Subject matter varies by term.

HY 400 Special Studies in History. 3 hours.

HY 401 Japanese Civilization to 1550. 3 hours.

Survey of Japanese history from the beginnings through the 16th century. Major emphasis on the period after 400 A.D.

HY 402 Modern Japan since 1550. 3 hours.

Major emphasis on the end of the Tokugawa Period (1800–68), the rise of modernized Japan in the Meiji Period (1868–1912), and the 20th century.

HY 403 Chinese Civilization to 1600. 3 hours.

Survey of Chinese culture from the Shang period through the Ming period.

HY 404 Modern China since 1600. 3 hours.

Survey of Chinese history in the Ch'ing Dynasty and the 20th century, with emphasis on 19th- and 20th-century events.

HY 405 History of Han China. 3 hours.

Considers China's most important early dynasty, centering on the foundations of Confucian orthodoxy and political ideologies.

HY 408 Colonial United States to 1763. 3 hours.

Topical survey of major themes in U.S. colonial history, with particular emphasis on Anglo-American developments.

HY 409 American Revolution and the Founding of the Nation, 1763–1815. 3 hours.

The development of revolutionary sentiment in the North American colonies, the resulting revolution, and the subsequent efforts to establish the new nation.

HY 411 Comparative Slavery and Emancipation. 3 hours.

Prerequisite: HY 203 or HY 205.

Explores the development of slavery and the struggles for emancipation in the Americas, 1400–1900, focusing on how race, gender, and region shaped experiences.

HY 412 Slavery in American Popular Culture, 1845–present (same as AAST 412). 3 hours.

An examination of slavery in American popular culture from the 1840s to the present. Topics and media include fiction, autobiography, film and television, advertising, and confederate celebrations.

HY 413 Mexican War through Civil War. 3 hours.

Examines how Americans thought about and used armed force from 1845 to 1865.

HY 416 U.S. from Reconstruction to World War I. 3 hours.

Selected topics relating to the development of the U.S., especially domestic affairs and the growth of important institutions.

HY 417 U.S. from World War I through World War II. 3 hours.

Covers U.S. participation in two world wars, the Roaring Twenties, and the Great Depression. Government, society, and culture receive attention and analysis.

HY 421 American Legal History (same as LAW 772). 3 hours.

Critical history of American law and institutions, emphasizing the period since 1750.

HY 422 History of American Labor Law to 1900. 3 hours.

Treats the legal experience of American workers as labor changed from unfree to free status; covers indentured servitude, slavery, conspiracy, labor contracts, and the rise of unions.

HY 423 History of American Labor Law since 1900. 3 hours.

Treats the legal experience of 20th-century American workers; covers the World War, the Red Scare, the Depression, and the coming of the Wagner Act and its implementation.

HY 424 American Thought before 1860. 3 hours.

Prerequisite: HY 203 or HY 205.

American intellectual/cultural history to 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender, and race.

HY 425 American Thought since 1860. 3 hours.

Prerequisite: HY 204 or HY 206.

American intellectual/cultural history since 1860. Includes changing ideas about society, politics, morality, science, nature, religion, gender, and race.

HY 427 Women in Early America, 1492–1877. 3 hours.

Prerequisite: HY 203 or HY 205.

Explores women's lives from European settlement to Reconstruction, paying special attention to ideologies about women's roles, and the influences of region, race, class, and ethnicity.

HY 428 Women in Modern America, 1865–present. 3 hours.

Prerequisite: HY 204 or HY 206.

Examines the experiences of women from mid-nineteenth century to the present, with special attention to ideologies of women's roles, as well as how region, race, class, and ethnicity shaped women's experiences. **HY 429 The Spanish Frontier in North America.** 3 hours.

History of the Spanish advance into the present-day borders of the U.S., explaining how Spain fought and finally succumbed to the more dynamic and aggressive French and English.

HY 430 Undergraduate Research Seminar. 3 hours.

Prerequisite: History major and 18 hours of HY courses.

This course will offer training in historical methods and theory. It will culminate in a substantial research paper and oral presentation.

HY 432 Beyond Pocahontas: Gender and Native American/European Contact in Early America. 3 hours.

Prerequisite: HY 203 or HY 205.

Explores contact between Native Americans and Europeans in the early Americas with attention to the role of gender, stressing the diversity of Native lifeways.

HY 442 The Middle Ages. 3 hours.

Foundations of the modern world in barbarian Europe: retreat into the countryside and private government, recovery of public institutions, money economy, and cultural vitality.

HY 443 Renaissance. 3 hours.

Study of intellectual movements associated with the Renaissance, including readings in Machiavelli's *Prince*, More's *Utopia*, and other humanist writings; social life, economy, religion, politics, and statecraft.

HY 444 Reformation and Counter-Reformation. 3 hours.

History of the separation of the Catholic and Protestant churches from the ideal of the universal Christian church and late medieval religious practice.

HY 446 Age of Reason, 1715–89. 3 hours.

The Enlightenment of Voltaire, Diderot, Rousseau, Franklin, Hume, Goethe, and Kant, whose writings exalted individual reason, tolerance, liberalism, science, and public service and set the stage for the French Revolution.

HY 447 French Revolution and Napoleon. 3 hours.

Causes, course, and effects of the revolution, from the storming of the Bastille to Napoleon's seizure of power, conquests, and final defeat at Waterloo.

HY 448 Women and Gender in Modern Europe, 1750–present. 3 hours.

Prerequisite: HY 102 or HY 106.

This course surveys women's lives in Europe from 1750 to the present. Themes explored include: identity construction, power relationships, domesticity, class, war, consumerism, and sexuality.

HY 451 Early Modern Germany. 3 hours.

This course examines political, religious, intellectual, military, cultural, and social history of German-speaking Central Europe from the Eve of the Protestant Reformation to the eve of the French Revolution.

HY 455 German History, 1740–1918. 3 hours.

Prerequisite: HY 101 or HY 106.

An introduction to German history in the late eighteenth and nineteenth centuries. Examines major trends and key debates concerning German society, politics, and culture from the Enlightenment era to Germany's defeat in World War I.

HY 471 Age of Exploration and Conquest. 3 hours.

A history of exploration during the 15th and 16th centuries, when European nations expanded by sea voyages and conquest, settling in the Americas, Africa, and Asia.

HY 474 Relations of U.S. and Latin America. 3 hours.

Chronological survey of diplomatic, economic, and cultural relations, with emphasis on the 20th century.

HY 475 Caribbean Basin: 1492 to the Present. 3 hours.

Traces the evolution of Caribbean and Central American nations from the first European settlements to the present.

HY 476: Religion in Latin America. 3 hours.

The history of religion in Latin America from the late fifteenth century through the early twenty-first century.

HY 480 Survey of Military History. 3 hours.

Introduction to the ways in which human beings have organized and used armed force over the course of recorded history.

HY 481 War and Diplomacy in Late Medieval and Early Modern Europe. 3 hours.

Prerequisite: HY 101 or HY 102.

This course examines developments in European warfare and diplomatic practice in the late medieval and early modern periods.

HY 482 War and Religion in the West. 3 hours.

This course examines the complex interrelationships between religion and armed conflict in the Western tradition from the ancient world into modern times.

HY 490 England under the Tudors. 3 hours.

Development of an early modern state: establishment of a strong central monarchy, religious crises from the Reformation to the Puritan movement, and exuberance and excess of an expanding society.

HY 491 England under the Stuarts. 3 hours.

How Englishmen of the 17th century worked out the great questions of their day: Was liberty compatible with strong government? Could English elites share power without destroying it? What did God want for England?

HY 493 Britain in the 18th Century. 3 hours.

From the Hanoverian Succession in 1714 to victory at Waterloo in 1815—political development, the Agrarian and Industrial Revolutions, John Wesley, Samuel Johnson, and an apparently endless succession of wars.

HY 494 Britain in the Victorian Age. 3 hours.

Britain at her apogee—possessor of the empire on which the sun never set, world economic leader, nation of Peel and Palmerston, Gladstone and Disraeli, Dickens and Trollope, Tennyson and Browning, Turner and Constable.

HY 495 Britain in the 20th Century. 3 hours.

From the death of Queen Victoria to Mrs. Thatcher—the decline of the British Empire, the two World Wars, the rise of the welfare state, the Common Market, and economic resurgence.

HY 498 Undergraduate Thesis Research. 3 hours.

Prerequisite: Admission to the History Honors Program and successful completion of HY 399.

Independent research and writing to produce a senior honors thesis in history.

HY 499 Undergraduate Thesis Research. 3 hours.

Prerequisite: Admission to the History Honors Program and successful completion of HY 399 and HY 498.

Independent research and writing to produce a senior honors thesis in history.

HISTORY, PHILOSOPHY, AND SOCIOLOGY OF EDUCATION (BEF)

Professor John Petrovic
Program Coordinator

Office: 323c Graves Hall

BEF 360 Social and Psychological Foundations of Education. 3 hours.

Prerequisite: PY 101 or HD 101.

An examination of the foundations of education in a modern democratic society and the critical project of promoting social justice through schooling. Attention is also paid to how theories of human nature and the social good shape distinctive philosophies of education.

BEF 362 School, Culture, and Society. 3 hours.

Prerequisite: HD 101 or PY 101.

An examination of the foundations of education in a modern democratic society and the critical project of promoting social justice through schooling. Attention is also paid to how theories of human nature and the social good shape distinctive philosophies of education.

BEF 490 Democracy, Ideology, and Education. 3 hours.

Students will explore the meanings and requirements of democracy, investigate how ideology functions and impacts democracy, and how both democracy and ideology affect policies, practices, and purposes of schooling. This course will not substitute for current and future COE requirements, including BEF 362 or 360, and will not be used in the GPA calculation of professional studies.

HUMAN DEVELOPMENT AND FAMILY STUDIES (HD)

Office: 214 Child Development Research Center

HD 101 Human Development. 3 hours.

An introductory survey of basic principles of development across the life span. Developmental principles are studied within the framework of change and stability in the domains of the physical, cognitive, and psychosocial self.

HD 202 Child Development: Infancy and Toddlerhood. 3 hours.

Growth and development of the child from conception to three years of age. Methods used in infant research, practical implications of research, and major theoretical issues and observational techniques are addressed. Three lecture hours, one laboratory hour per week.

HD 203 Medical Terminology. 2 hours.

A study of medical language by exploring the structure, meaning and usage of terms frequently utilized in health care settings. A basic summary of the body systems is included.

HD 205 Child Development: Preschool. 3 hours.

Growth, development, and guidance of young children. Practical implications of research and major theoretical issues and observational techniques are addressed. The importance of play in fostering a broad range of developmental goals for children is stressed. Three lecture hours, one laboratory hour per week.

HD 226 Introduction to Child Life. 1 hour.

Provides students with an introduction to the field of child life.

HD 262 Marriage and the Family. 3 hours.

A study of marriage and family relationships from a combination of sociological and psychological perspectives.

HD 302 Child Development: Adolescence. 3 hours.

Introduction to the theory of and research on adolescent development.

Special attention is given to major transitions in the cognitive, social, and moral domains, as well as to psychological effects of physical maturation. Influences of the family, the schools, and peer relations on adolescent development are considered.

HD 321 Conceptual and Creative Experiences for Young Children I.

3 hours.

Prerequisites: HD 205 or equivalent and enrollment in the early childhood development or child life concentration.

Examines the principles underlying the selection, use, and value of experiences that appropriately foster concept development and creative expression in young children. One and a half lecture hours, three laboratory hours per week. For majors only.

HD 322 Conceptual and Creative Experiences for Young Children II.

3 hours.

Prerequisites: HD 205 or equivalent, HD 321, and enrollment in the early childhood development or child life concentration.

Second in the sequence in which students examine the principles underlying the selection, use, and value of experiences that foster concept development and creative expression in young children. One and a half lecture hours, three laboratory hours per week. For majors only.

HD 382 Parent and Family Development. 3 hours.

Explores the changing nature and dynamics of parent-child relationships. Implications for parent education programs and parenting strategies are included.

HD 401 Cultural Influences on Children, Youth, and Families. 3 hours.

The course presents the cultural context of development. The impact of cultural factors (for example, ethnicity, geographic locale, social class, poverty, affluence) on the development of children, youth, and families is examined. Writing proficiency must be demonstrated to receive credit for this course.

HD 412 Adult Development. 3 hours.

Prerequisite: 6 hours of 200-level or higher-numbered HD courses, or permission of the instructor.

Theories of and research on social, emotional, cognitive, and physical development throughout adulthood: young adulthood, middle adult years, and older adult years. Writing proficiency must be demonstrated to receive credit for this course.

HD 422 Administering Children's Centers and Programs. 3 hours.

Prerequisite: 6 hours of 200-level or higher-numbered HD courses, or permission of the instructor.

Children's centers and programs, including child development and child life programs, are examined and evaluated. Legislation, standards, program planning, and practical aspects of financing, administration, supervision, and management are explored. Writing proficiency must be demonstrated to receive credit for this course.

HD 426 Hospitalized Children and Youth. 3 hours.

Prerequisite: Acceptance into the child life concentration or permission of the instructor.

Examination of the theoretical basis of the psychosocial care of children, youth, and families in health care settings. The etiology of childhood illness and disease, clinical procedures, communication techniques, and research literature are studied from a developmental perspective. Practicum hours are required.

HD 451 Loss and Bereavement. 3 hours.

Prerequisite: Child life status, HD 426, or permission of the instructor.

Designed to give child life students opportunities for in-depth study of issues of grief and bereavement as they impact children and families. An emphasis is placed on theories of grief resolution and applications in health care settings. The class is conducted in a seminar format with out-of-class placements.

HD 462 Interpersonal Relationships. 3 hours.

The course examines the dynamics of interpersonal interaction related to the development and maintenance of relationships. Current issues and problems are explored and related to marital and family system characteristics.

HD 472 Program Evaluation. 3 hours.

Prerequisite: 6 hours of 200-level or higher HD courses or permission of the instructor.

Examines the principles and methods by which programs for children and families are empirically evaluated.

HD 475 Human Sexuality/Sex Education. 3 hours.

Current scientific knowledge of physiological, sociological, and psychological factors influencing sexual development and relations.

HD 477 The Psychology of Morality. 3 hours.

An advanced overview of theory and research in moral psychology with a particular emphasis on cognitive developmental models of moral functioning.

HD 480 Children and Divorce. 3 hours.

Examines the effects of divorce on children's cognitive and social-personality development.

HD 483 Family Life Education. 3 hours.

Prerequisite: 6 hours of 200-level or higher HD courses (including HD 382) and enrollment in the family studies concentration.

Provides opportunities to plan, implement, and evaluate family life education programs. Standards and criteria leading to certified family life educator are overviewed. Professional responsibilities and ethics are emphasized.

HD 488 Senior Seminar. 2 hours.

Prerequisite: Senior standing or permission of the instructor.

Examines the theory and philosophy of programs for families and children. Issues of professional identity and ethics are also discussed.

HD 491 Directed Individual Study in Human Development. 1 to 3 hours.

Prerequisite: Permission of the department head and professor.

Designed to enable students to pursue special needs and interests under supervision.

HD 492 Directed Individual Study in Family Studies. 1 to 3 hours.

Prerequisite: Permission of the department head and professor.

Designed to enable students to pursue special needs and interests under supervision.

HD 493 Directed Research. 3 to 6 hours.

Prerequisite: Advance approval by the department head and faculty sponsor.

HD 495 Early Childhood Development (ECD) Internship. 6 to 12 hours.

Prerequisites: HD 202, HD 205, HD 321, HD 322, ECHS major, 2.0 GPA, senior standing, and permission of the instructor.

Internship experience for students in the early childhood development concentration only.

HD 496 Child Life Internship. 12 hours.

Prerequisites: HD 202, HD 205, HD 321, HD 322, HD 426, child life concentration, 2.5 GPA, senior standing, and permission of the instructor.

Internship experience for students in the child life concentration only.

HD 497 Family Studies Internship. 6 to 12 hours.

Prerequisites: HD 483, family studies concentration, 2.0 GPA, and permission of the instructor.

Internship experience for students in family studies concentration only.

HD 498 Adolescent and Youth Development Internship. 6 to 12 hours.

Prerequisites: HD 302, senior standing, adolescent and youth development concentration, 2.0 GPA, and permission of the instructor.

Internship experience for students in the adolescent and youth development concentration only.

HUMAN ENVIRONMENTAL SCIENCES (HES)

Professor Olivia Kendrick

Office: 101 Doster Hall

HES 100 Compass Course in Human Environmental Sciences.

3 hours.

Designed to help students make the transition to a large comprehensive research university, develop a better understanding of the learning process, and acquire basic academic survival skills.

HES 250 Career Development and Planning. 3 hours.

This elective course designed for freshmen and sophomores offers students opportunities to evaluate themselves, their abilities and interests, their personality characteristics, and their values, in order to begin forming career goals—or to complete goals already set. This course will provide students with information on occupational characteristics, the career decision-making process, current issues in the career world, developing employability, job readiness, and job search techniques.

HES 275 Leadership Development Through Service. 1 to 3 hours.

Encourages volunteerism as a way to develop leadership skills and a sense of responsibility to one's community as advocates for service. Students are provided with a list of nonprofit service agencies in Tuscaloosa, from which they may choose. Students may submit alternative sites for approval by the instructor. Students must provide their own transportation to the volunteer site.

HES 310 Issues in Human Environmental Sciences. 3 hours.

Prerequisite: Only open to human environmental sciences majors.

History and philosophy of human environmental sciences; present and future societal issues and their implications for the profession and professional procedures.

HES 350 Service Education: Alternative Spring Break. 3 hours.

Students will examine contemporary social and leadership issues through research and direct service with local service agencies and the Alternative Spring Break program. Participants will discover that they serve their communities better when their service is linked to academic study: preparation, analysis, integration, and assessment (service learning).

HES 390 Practicum in Human Environmental Sciences. 3 to 6 hours.

Provides students with an opportunity to apply classroom knowledge in a work setting appropriate with career goals.

HES 450 Volunteerism and Civic Responsibility. 1 to 3 hours.

Study of the importance of volunteerism to nonprofit organizations. Students will gain practical experience working with one or more nonprofit organizations.

HES 460 Sports Management. 3 hours.

This course is designed for sport professionals desiring to increase their knowledge and understanding of management issues in their job settings and professional careers. This course will review the following issues: sport management; scope and career opportunities; organizational theory; human resource management; ethics; risk management; sport governance; managing sport facilities; marketing; sport licensing; economics; accounting and budgeting; financing sport; and tourism.

HES 468 Internship. 3 to 12 hours.

Opportunity to gain practical experience applying the theories learned in the classroom in a real-world setting under the supervision of a practicing professional.

HES 485 Self-Monitored Mentoring. 3 hours.

Prerequisite: Student in the College of HES.

This Web-based course explores self-development of the individual and mentoring as a part of leadership development. Writing proficiency is required for a passing grade in this course.

HES 490 Individual Study in Human Environmental Sciences. 1 to 6 hours.

Prerequisite: Permission of the instructor.

Individual study in an area of human environmental studies.

HES 494 RISE Practicum: Special Needs of Children with Developmental Disabilities. 1 to 5 hours.

Individual study in the special needs of children with developmental disabilities. Students will apply theories learned while working with children at RISE.

HUMAN NUTRITION AND HOSPITALITY MANAGEMENT (NHM)

Professor Olivia W. Kendrick
Department Head

Office: 206 Doster Hall

NHM 101 Introduction to Human Nutrition. 3 hours.

Introduction to principles of the science of nutrition, with implications for and applications to food selection for individuals of all ages.

NHM 105 Personal Nutrition. 3 hours.

Discussion and application of nutrition as it relates to personal health.

NHM 195 Introduction to Dietetics and Nutrition. 1 hour.

An overview of the professions in nutrition and dietetics. Course includes guest speakers and lectures.

NHM 201 Nutrition in the Life Cycle. 3 hours.

Prerequisite: NHM 101.

Application of principles of basic nutrition to each stage of the life cycle. Emphasis is on the relationship of nutrition to growth, development, and health.

NHM 210 Dynamics of Weight Control. 3 hours.

Analysis of interaction of nutrition and exercise in weight control. Techniques for measuring energy needs, estimating body composition, applying nutrition principles to weight control, and evaluating popular diet and exercise programs.

NHM 253 Food Science. 3 hours.

Relation of food composition and structure to food preparation. One lecture, two laboratories.

NHM 305 Vegetarian Nutrition. 3 hours.

This course will provide students with an introduction to vegetarian nutrition,

including background information on general nutrition. This course will also cover a vegetarian diet's role in disease prevention, courses of plant-based nutrients, vegetarian diets throughout the life cycle, food policy, and how to implement vegetarian diets into different areas of dietetic practice.

NHM 315 Nutrition for Performance. 3 hours.

Prerequisite: NHM 101 or permission of the instructor.

This course is designed to address nutrition issues related to exercise and athletic performance.

NHM 361 Nutritional Biochemistry. 3 hours.

Prerequisites: NHM 101, CH 104, and CH 105.

Intermediary metabolism of carbohydrates, fat, and protein with emphasis on homeostatic regulation in health and disease.

NHM 362 Nutrition at the Cellular Level. 3 hours.

Prerequisites or corequisites: NHM 101, NHM 201, NHM 253, CH 104, CH 105, BSC 215:216, and NHM 361 or permission of the department head.

Physiological and chemical basis of nutrient needs.

NHM 363 Applied Nutrition. 3 hours.

Prerequisites: NHM 101 and NHM 201, BSC 215:216.

Principles of nutrition assessment, including interviewing and nutrition care plans. Application of principles to selected stages of the life cycle.

NHM 365 Medical Nutrition Therapy I. 3 hours.

Prerequisites or corequisites: NHM 362, BSC 215:216, NHM 363, and NHM 361; or permission of department head.

Study of pathophysiology and medical nutrition therapy for specific disease conditions.

NHM 366 Supervised Practice in Medical Nutrition Therapy I. 3 hours.

Prerequisite: Admission to the Coordinated Program in Dietetics.

Corequisite: NHM 365.

Supervised clinical dietetics experience applying NHM 365 coursework.

NHM 372 Introduction to Food Systems Management. 3 hours.

Course includes theories, functions, and principles of management and tools for decision making. Offered in the fall semester.

NHM 373 Purchasing, Design, and Risk Management in Food-Service Systems. 3 hours.

Principles, methods, and techniques used in purchasing food and equipment.

Analysis of layout and design and of techniques used in evaluating work flow. Principles and techniques used in managing sanitation, safety, and security functions in food service.

NHM 374 Quantity Food Production and Service. 3 hours.

Prerequisite: NHM 253.

Theory and techniques of quantity food production and service. Application of theory through management of a student-operated cafeteria.

NHM 390 Supervised Practice in Food-Service Management I. 3 hours.

Prerequisites: Admission to the Coordinated Program in Dietetics, NHM 372, NHM 373, and NHM 374; or permission of department head.

This directed individual study is designed to bridge the gap between the student's quantity foods laboratory course and the senior food service management supervised practice. Students will be placed in commercial health-care food service operations.

NHM 395 Introduction to Research in Food and Nutrition. 1 hour.

Prerequisites: NHM 101 and NHM 201, or permission of instructor.

Basic research designs will be introduced and their applications in the broad areas of practice in dietetics will be discussed. Students will learn to use the Evidence Based Library of the American Dietetics Association Web site. Student membership in the American Dietetic Association is a requirement of this course.

NHM 401 Nutrition for Health Professionals. 3 hours.

Prerequisite: Eight hours of biological sciences.

Covers the practical application of principles of normal nutrition (including the nutritive value of foods) and introduces nutrition for persons with health problems. Primarily for students pursuing careers in health care.

NHM 432 Nutrition Counseling and Education. 3 hours.

Prerequisites: NHM 101 and NHM 201.

Focuses on counseling skills and selected counseling theories as they apply to nutrition counseling. Incorporates principles of education in teaching nutrition to various populations.

NHM 454 Experimental Food Science. 3 hours.

Prerequisites: NHM 101, NHM 253, and CH 105; or permission of department head.

Corequisite: BER 345.

Chemical and physical factors affecting food preparation; experimental methods applied to food preparation problems. Writing proficiency is required for a passing grade in this course. Offered in the fall semester. One lecture, two laboratories.

NHM 463 Community Nutrition. 3 hours.

Prerequisites: NHM 201 and NHM 363.

Nutrition assessment of individuals and groups; provision of nutrition services in the community. Writing proficiency is required for a passing grade in this course.

NHM 464 Supervised Practice in Community Nutrition. 1 hour.

Corequisites: NHM 463 and admission to the Coordinated Program in Dietetics.

Experiences that include nutrition assessment and counseling and delivery of nutrition services in the community.

NHM 465 Medical Nutrition Therapy II. 3 hours.

Prerequisite: NHM 365 and NHM 362.

Continuation of NHM 365. Basic principles of enteral and parenteral nutrition support, as well as advanced medical nutrition therapy for critical care.

NHM 466 Supervised Practice in Medical Nutrition Therapy II. 3 hours.

Corequisites: NHM 465 and admission to the Coordinated Program in Dietetics.

Supervised clinical dietetics experience applying NHM 465 coursework.

NHM 467 Supervised Practice in Long Term Care. 3 hours.

Prerequisites: NHM 465 and NHM 466.

Application of the principles of clinical nutrition for the older adult during supervised practice in health care facilities specializing in long term care and under the direct supervision of a registered dietitian. This clinical rotation addresses the nutritional assessment and management of physiological and psychosocial changes, diseases, and environmental factors affecting the nutritional needs of older adults. Students will learn strategies and tools to provide good quality of nutrition care to older adults at different levels of health and functional status. Graduates will demonstrate expertise in the provision of nutrition care to this population. Case studies and critical review of research articles will be incorporated into the course to strengthen clinical practical skills.

NHM 468 Practicum in Nutrition and Food Services. 1 to 5 hours.

Prerequisite: Permission of the instructor.

Planned professional experience working in nutrition and/or food services. Usually in a medical care environment.

NHM 475 Management of Food-Service Systems. 3 hours.

Prerequisites: NHM 372, NHM 373, and NHM 374.

Through lectures and class discussions, the theory, functions, and principles of management are applied. Emphasis is on personnel and financial management, problem solving, decision making, and systems analysis.

NHM 476 Supervised Practice in Food-Service Systems Management II. 2 hours.

Corequisites: NHM 475 and admission to the Coordinated Program in Dietetics.

Supervised practice in an institutional food service setting applying NHM 475 coursework.

NHM 485 Supervised Practice in Dietetics Management and Communications. 3 hours.

Conduct a research project using appropriate research methods, ethical procedures, and statistical analysis to culminate in the execution of a program for a target population. Develop and implement a curriculum; adhere to budget constraints, and implement a marketing plan, utilizing web-based messages and social media.

NHM 490 Directed Individual Study. 1 to 6 hours.

Prerequisite: Permission of the instructor.

Individual study in nutrition or food service management.

NHM 491 Directed Professional Study. 3 hours.

Prerequisites: NHM 362, NHM 363, and NHM 365.

Individual professional study in management, clinical, or community dietetics. Requirement of 160 clock hours spent in assigned site. Writing proficiency is required for a passing grade in this course.

NHM 492 Preparing for Dietetic Internship.

Prerequisites: Admitted into the DPD Program, Nutrition major or permission of the instructor.

Prepares students to apply successfully for a dietetic internship. Students will learn to evaluate internship options relevant to their strengths and become fully acquainted with the internship application and selection process.

NHM 494 RISE Practicum: Nutritional and Developmental Disabilities. 1 to 5 hours.

Individual study in nutritional assessment of preschool children with developmental disabilities. Students will apply theories learned while working with children at RISE.

NHM 495 Seminar in Dietetics and Nutrition. 2 hours.

Discussion of current topics and research in the areas of nutrition and institution management and the related professional organizations. Offered in the spring semester.

NHM 499 Undergraduate Research. 3 hours.

Under faculty supervision, the student designs an investigation; collects and analyzes data; and prepares a written report and seminar on the research project.

INDONESIAN (INDO)

Office: 200-D B.B. Comer Hall

INDO 101 Elementary Indonesian I. 3 hours.

Contemporary Indonesian—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

INDO 102 Elementary Indonesian II. 3 hours.

Prerequisite: INDO 101 or consent of CLC director.

Contemporary Indonesian—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

INDO 201 Intermediate Indonesian I. 3 hours.

Prerequisite: INDO 102 or consent of CLC director.

Continuation of Indonesian language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand.

INDO 202 Intermediate Indonesian II. 3 hours.

Prerequisite: INDO 201 consent of CLC director.

Continuation of INDO 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand.

INFORMATION SCIENCES (IS)

Dr. Elizabeth Aversa, Director

Office: 513 Gorgas Library

IS 100 Information I: Fundamentals of Information Literacy (same as MC 103). 3 hours.

How to find and use information in systems designed and managed by others: asking questions; access; selection; evaluation; synthesis; and design of research projects.

IS 200 Information II: Designing Information Structures. 3 hours.

How to design, build, and manage information structures for particular situations: assessing needs; structuring information to meet users' needs; design of storage, retrieval, and dissemination systems; and analysis of information behavior.

IS 201 Technology I: The Technologies for Building Information Systems. 3 hours.

A study of the important technical characteristics of and the issues raised by the many different types of technologies that together form and support information and communication systems, including computing, local and wide area telecommunication networks, the Internet and Intranets, and storage, retrieval, distribution, and interface technologies.

IS 202 Society I: History and Effects of the Information Society.

3 hours.

Ways in which the new information technologies are transforming society and issues raised by the information environment's rapid changes.

IS 301 Technology II: Information Applications and Systems. 3 hours.

Applications of information and communication technologies and their interdependence and interactions in networks and systems, including a study of the information systems employed by various commercial and professional enterprises; and the development, implementation, and maintenance of interactive databases and Web sites.

IS 401 Technology III: Designing, Implementing, and Managing Information Systems. 3 hours.

Studies how information systems are designed and implemented, how the information handling requirements of given situations may be assessed and matched with the characteristics of information systems, integrity and security of data networks, and activities affected by information handling systems.

IS 402 Society II: Information in the 21st Century. 3 hours.

The most successful economic, political, social, and cultural experiments in today's electronic environment – found in communities, businesses, and governance of all kinds – suggest what will become the trends of the global information economy of the 21st century.

IS 480 Capstone: Managing Information and Knowledge. 3 hours.

Designing, building, and managing an information and communication system for a specific set of needs; brings together what students have learned about information structures, technologies, and social systems.

IS 471 Internship. 3 hours.

Supervised practical experience in an information agency.

IS 472 Internship. 3 hours.

Supervised practical experience in an information agency.

IS 473 Internship. 3 hours.

Supervised practical experience in an information agency.

IS 474 Internship. 3 hours.

Supervised practical experience in an information agency.

IS 475 Internship. 3 hours.

Supervised practical experience in an information agency.

INTERNATIONAL BUSINESS ADMINISTRATION (IBA)
Dr. Rob Morgan, Department Head
Office: 104 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

IBA 350 Introduction to World Business. 3 hours.

Prerequisites: EC 110, EC 111, and AC 210.

This course examines the conduct of business across national boundaries and the impact of different cultures on business practices.

IBA 351 Multinational Business Communication (also MGT 351). 3 hours.

Prerequisite: IBA 350.

A study of the principles and practices of intercultural business communication, written and interpersonal. The course requires substantial reading. The focus is on making students aware of the sources of common intercultural business communication problems, and on helping them develop strategies to avoid or correct these problems.

IBA 459 Seminar in International Management (also MGT 459). 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300.

Designed for students interested in understanding the demands of managing an international or multinational organization. The perspective is both strategic and operational, considering both how domestic and global market factors affect decisions about moving business activities abroad, and how the decision to become international requires adjustments to traditional domestic operations and business activities.

IBA 460 Export-Import Management (also MKT 460). 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300.

This course includes a thorough examination of the export-import management process and highlights its importance in international business strategy.

IBA 491 Independent Study in International Business. 1-3 hours.
Students may earn degree credit for only one independent study course (491).

IBA 492 Internship. 1-3 hours.
Prerequisites: Junior or senior standing and a grade point average of 2.50 or higher. Students may earn degree credit for only one internship (492).
Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services.

IBA 497 Special Topics. 3 hours.

INTERNATIONAL HONORS PROGRAM (IHP)

Office: 275 Nott Hall

IHP 105 Honors Culture and Human Experience. 3 hours.
Prerequisite: Member of the International Honors Program.
An introductory course for the International Honors Program designed to sensitize IHP students to life and culture outside the United States.

IHP 155 Honors Culture and Human Experience. 3 hours.
Prerequisite: Member of the International Honors Program. Freshmen only.
An introductory course for the International Honors Program designed to sensitize IHP students to life and culture outside the United States. Equivalent to IHP 105.

IHP 400 Independent Study. 1 to 6 hours.
Prerequisites: Member of the International Honors Program and junior or senior in good standing.
Independent study in a subject area chosen in consultation with a qualified faculty member who will supervise the project. A proposal outlining the project must be approved in advance by the supervisor and the director of the International Honors Program.

ITALIAN (IT)

Office: 205 B.B. Comer Hall

IT 101 Introductory Italian I. 4 hours.
Five hours of instruction per week. The course is the first semester of college-level language study. Offered each semester.

IT 102 Introductory Italian II. 4 hours.
Prerequisite: IT 101 with a grade of "C-" or higher.
Five hours of instruction per week. The course is the second semester of college-level language study. Offered each semester.

IT 201 Intermediate Italian I. 3 hours.
Prerequisite: IT 102.
Basic grammar review, development of writing skills, and introduction to literature.

IT 202 Intermediate Italian II. 3 hours.
Prerequisite: IT 201, or equivalent language proficiency and/or permission of the instructor.
Basic grammar review, development of writing skills, and introduction to literature.

IT 353 Italian Conversation. 3 hours.
Prerequisite or corequisite: IT 202, and/or permission of the instructor.
Development of conversational skills through role-playing, oral presentations, and vocabulary building.

IT 356 Advanced Grammar and Composition. 3 hours.
Prerequisite: IT 202, or equivalent language proficiency and/or permission of the instructor.
A combined writing theory and writing skills course focusing upon more advanced notions of Italian grammar and on the development of techniques for written expression.

IT 361 Introduction to Romance Linguistics (same as FR 361 and SP 361). 3 hours.
Prerequisite: Any 202-level foreign language course, or equivalent language proficiency and permission of the instructor.
Introduction to linguistic science and its use in describing language in general and the Romance languages in particular.

IT 364 Masterpieces of Italian Literature in Translation. 3 hours.
Study of selected major works of Italian literature in translation without restriction as to literary period or genre.

IT 380 Special Topics. 3 hours.
Prerequisite: IT 202.*
The subject matter varies, and includes "Film and Literature," and "Fascism in Film and Literature" with lectures in English. * No prerequisite necessary for courses offered in English. May be repeated for credit.

IT 480 Special Topics. 3 hours.
Prerequisite: IT 356, or equivalent language proficiency and/or permission of the instructor.
The subject matter varies. May be repeated for credit. Offered according to demand.

JAPANESE (JA)

Office: 200-D B.B. Comer Hall

JA 101 Elementary Japanese I. 4 hours.
Five hours of instruction per week. Acquisition of elementary Japanese language skills in listening, speaking, reading, and writing.

JA 102 Elementary Japanese II. 4 hours.
Prerequisite: JA 101 or equivalent.
Five hours of instruction per week. A continuation of JA 101.

JA 201 Intermediate Japanese I. 3 hours.
Prerequisite: JA 102 or equivalent.
A continuation of JA 102.

JA 202 Intermediate Japanese II. 3 hours.
Prerequisite: JA 201 or equivalent.
A continuation of JA 201.

JA 301 Third-Year Japanese I. 3 hours.
Prerequisite: JA 202 or equivalent.
A continuation of JA 202.

JA 302 Third-Year Japanese II. 3 hours.
Prerequisite: JA 301 or equivalent.
A continuation of JA 301.

JA 353 Japanese Conversation and Composition. 1 to 4 hours.
Prerequisite: JA 202 or equivalent, and permission of the instructor.
Oral drills, pronunciation exercises, simple oral reports, and composition of letters and reports.

JA 354 Japanese Conversation and Composition. 1 to 4 hours.
Prerequisites: JA 353 or equivalent, and permission of the instructor.
A continuation of JA 353.

JA 356 Traditional Japanese Literature in Translation (same as WL 356). 3 hours.
Introduction to Japanese literature from the earliest times through the Tokugawa period. No knowledge of Japanese is required.

JA 357 Modern Japanese Literature in Translation (same as WL 357). 3 hours.
Introduction to modern Japanese literature from the Meiji period to the present. No knowledge of Japanese is required.

JA 371 Japanese Culture and Civilization I. 3 hours.
Prerequisite: JA 102 or permission of the instructor.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include modern history, characteristics of Japanese business, social problems, and traditional religions and philosophy of the Japanese.

JA 372 Japanese Culture and Civilization II. 3 hours.
Prerequisite: JA 102 or permission of the instructor.
This course is for students who need fundamental knowledge of current Japanese culture. The topics include traditional art forms, Buddhism sculptures, movies, traditional music and theatre, subculture, and martial arts.

JA 390 Topics in Japanese Studies. 3 hours.
Discussion and research of various topics related to Japanese language/culture. Topics may change each semester, such as KANJI, translation, or traditional and modern Japanese culture and society. With permission of the program director, this course may be applied toward the Japanese minor.

JA 410 Fourth-Year Reading and Writing Japanese. 3 hours.
Prerequisite: JA 302 or equivalent.
A continuation of JA 301 and JA 302 with emphasis on development of reading and writing skills.

JA 411 Fourth-Year Spoken Japanese. 3 hours.
Prerequisite: JA 302 or equivalent.
A continuation of JA 301 and JA 302 with emphasis on development of listening and speaking skills.

JA 481:482 Directed Readings in Japanese. 1 to 4 hours.
Prerequisite: JA 410 or permission of instructor.

JOURNALISM (JN)

Office: 490 Reese Phifer Hall

1. Typing ability is a prerequisite for all journalism courses.
2. Journalism students are required to complete JN 311 and to maintain an overall grade point average of 2.0 or higher in order to enroll in journalism courses at the 300 and 400 levels. Journalism students must make a "C-" or higher for all courses taken in the major.
3. Departmental policy on internships (JN 382) is to award 1 semester hour for each 90 hours of work at a professional journalism organization. Students may take a total of 3 hours in the internship course.
4. Credit will be given for JN 380 Independent Study or JN 382 Internship only when the proper forms have been signed and submitted by the student, the supervising professor, and the department chairperson prior to the semester in which credit is to be earned.

JN 101 Journalistic Principles. 1 hour.

The role of journalism in a democratic society, emphasizing history, law, and ethics. Students are introduced to career options, opportunities for journalism majors and minors, the journalism curriculum, and student organizations in the Department of Journalism (SPJ, SND, ACES and others). Required for all majors and minors in the department.

JN 150 Mechanics of Writing. 1 hour.

The logic of sentence and paragraph structure in the context of media writing and accuracy with emphasis on grammar, punctuation and word choice. This online course is required for journalism, advertising and public relations majors.

JN 200 Introduction to Journalism. 3 hours (lecture and laboratory).

Introduction to the concepts, processes, and practices of journalism, including news values, writing, design, history, law and ethics.

JN 261 Basic Visual Journalism. 3 hours (lecture and laboratory).

Prerequisites: MC 101 and APR 260.

This course introduces students to visual concepts used in journalism. Emphasis on using photography and Web video to communicate information to audiences across media platforms. Introduction to tools used to capture images and to edit pictures and videos in a journalistic environment.

JN 311 News Writing and Reporting. 3 hours (lecture and laboratory).

Prerequisites: JN 150 and MC 101, and one of the following: APR 231, JN 101 or JN 200.

Fundamentals of newsgathering and newswriting for news organizations and public relations. This course is a prerequisite for all succeeding journalism courses. Writing proficiency is required for a passing grade in this W-designated course.

JN 312 Editing. 3 hours (lecture and laboratory).

Prerequisite: JN 311.

Preparing copy for publication across media platforms, with an emphasis on careful writing, accuracy, and presentation. Writing proficiency is required for a passing grade in this W-designated course.

JN 315 Beat Reporting. 3 hours (lecture and laboratory).

Prerequisite: JN 311.

Advanced practice of newsgathering and newswriting for specialized topic areas, ranging from "hard news" stories on topics such as government, education, and the environment to "soft news," human interest, and feature stories. Writing proficiency is required for a passing grade in this W-designated course.

JN 320 Intermediate Visual Journalism. 3 hours (lecture and laboratory).

Prerequisites: APR 260 and JN 312.

Survey and application of techniques and practices in presenting information visually, including infographics, photojournalism, and design and layout of publications and Web sites.

JN 325 Reporting and Writing Across Media. 3 hours.

Prerequisite: JN 311.

Emphasizes process of conceptualizing and executing news content for multiple media platforms including not only the print media, but also the World Wide Web, television, and radio.

JN 361 Intermediate Photojournalism. 3 hours (lecture and laboratory).

Prerequisites: JN 311 and JN 261.

Further instruction in the tools, concepts, and practice of using photography and Web video to communicate information to audiences. Emphasis on storytelling, technical proficiency, and specialized techniques.

JN 380 Independent Study. Variable credit (1 to 3 hours) (6 hours per week per credit hour).

Prerequisites: JN 311, 60 hours of completed college credits, and departmental approval.

Analysis of current issues and practices in journalism under the supervision of a faculty member. May be repeated for credit provided the topics are different.

JN 382 Internship. Variable credit (1 to 3 hours).

Prerequisite: JN 311, 60 hours of completed college credits, and departmental approval.

Students may take a maximum of 3 hours in internship for credit. For each credit, students must work 90 hours at a professional media organization, under the supervision of a media professional.

JN 411 Depth Reporting. 3 hours.

Prerequisite: JN 315.

Intensive practice in advanced reporting and writing techniques, with the goal of publishing students' work.

JN 412 Opinion Writing. 3 hours.

Prerequisite: JN 315.

The art and practice of writing editorials, columns, and other persuasive forms. Writing proficiency is required for a passing grade in this W-designated course.

JN 415 Advanced Magazine Writing. 3 hours.

Prerequisite: JN 315.

Writing and editing of magazine articles for publication.

JN 417 Community Journalism. 3 hours (lecture and laboratory).

Prerequisite: JN 315

Theory and practice in leadership, management, editorial, production, advertising, and marketing operations of media in the context of specific communities. Students conduct field work as temporary staff members for assigned media organizations. Writing proficiency is required for a passing grade in this W-designated course.

JN 426 Advanced Editing and Design. 3 hours.

Prerequisites: JN 312, JN 320

Application of graphic design techniques to both print and Web-based publications. Theory and practice of creating and executing layouts and design.

JN 430 Digital Media. 3 hours.

Prerequisite: JN 325

Explores and applies media convergence principles and techniques in producing online news magazines. Course emphasizes writing, editing, and designing for the Web and other digital media.

JN 436 Teaching of Journalism. 3 hours.

Introduction to the techniques and practices of teaching scholastic journalism and management of school newspapers, yearbooks, and literary magazines.

JN 461 Advanced Photojournalism. 3 hours.

Prerequisite: JN 361

This Capstone photo class is for students interested in a career in photojournalism. Advanced techniques, deadline pressure and problem solving are addressed, with emphasis on producing a professional portfolio of still photography and Web video.

JN 491 Special Topics in Journalism

Prerequisites: JN 315 or JN 312

Course content varies to explore current topics in journalism. Repeatable for up to 6 credits.

JN 492 International Journalism

Prerequisites: JN 312, JN 315 and departmental approval.

Capstone course in magazine reporting, writing, photographing and designing a magazine in an international setting. Students take on leadership roles associated with producing a magazine and its accompanying Web site.

JN 499 Journalism Issues, Practices, and Ethics. 3 hours.

Pre- or corequisites: JN 312, MC 401 and senior standing.

Examination of current issues and ethical practices in the field of journalism. Students complete a major research project on issues and ethics.

KINESIOLOGY—COACHING COURSES

(KIN)

Professor Matthew Curtner-Smith, Chairperson Office: 106 Moore Hall

KIN 295 Workshop in Athletic Coaching Education. 3 hours

This flexible and concentrated course allows for focus on selected aspects of coaching.

Students must have at least a 2.0 GPA to enroll in any of the following 300- and 400-level courses.

KIN 352 Psychology of Coaching. 3 hours.

This course is designed to introduce students to the psychology of coaching.

KIN 370 Coaching Soccer. 3 hours.

This course is designed to provide students with the skills and knowledge to coach the game of soccer.

KIN 381 Coaching Football. 3 hours.

This course is designed to provide students with the skills and knowledge to coach football.

KIN 382 Coaching Basketball. 3 hours.

This course is designed to provide students with the skills and knowledge to coach the game of basketball.

KIN 383 Coaching Baseball. 3 hours.

This course is designed to provide students with the skills and knowledge to coach the game of baseball.

KIN 386 Coaching Volleyball. 3 hours.

This course is designed to provide students with the skills and knowledge to coach the game of volleyball.

KIN 420 Issues in Athletics Coaching. 3 hours.

This course is designed to examine current issues, controversies, trends, and problems in the field of coaching.

KINESIOLOGY (KIN)

Professor Matthew Curtner-Smith
Department Head

Office: 106 Moore Hall

Enrollment in specific courses in the College of Education may be restricted to students who clearly demonstrate the greatest potential for success as teachers. Factors such as general studies courses completed, GPA, scores on state and program tests, interviews, etc., may be considered.

KIN 199 Ecological Approach to Health and Fitness. 3 hours.

This introductory course examines the basis for and interrelationships among the six aspects of wellness: social, physical, emotional, intellectual, spiritual, and environmental. The course addresses issues of physical fitness, wellness, and personal safety applicable to the college age group.

KIN 200 Weight Management Principles. 3 hours.

This course is designed around successful weight management concepts and pitfalls. Topics include physical activity, behavior, and lifestyle modification. Hands-on activities include measures of daily energy expenditure, personal fitness, target body weight, and development of a personalized exercise plan.

KIN 300 Introduction to Kinesiology. 3 hours.

Prerequisites: Exercise and sport science or PETE major, SOC 101, or BEF 362.

A critical analysis of sociocultural issues of the body, physical education, and performance programs. Special emphases are placed upon gender, race, and social class issues and their implications for education and sport.

KIN 305 Analysis and Teaching of Movement III and IV: Gymnastics and Dance. 2 hours.

Prerequisite: Admission to PETE methods cohort.

The purpose of this course is to improve students' performance and knowledge of skills and strategies in gymnastics and dance and to acquaint them with effective teaching behaviors appropriate for these activities.

KIN 306 Analysis and Teaching of Movement I: Invasion/Striking and Fielding/Target Games. 3 hours.

Prerequisite: Exercise and sport science or PETE major and have completed or are taking concurrently BSC 215 or BSC 216.

The purpose of this course is to improve students' performance and knowledge of skills and strategies in invasion, striking/fielding, and target

games and acquaint them with effective teaching behaviors appropriate for these same types.

KIN 307 Analysis and Teaching of Movement II: Track and Field, and Net/Wall Games. 2 hours.

The purpose of this course is to improve students' performance and knowledge of skills and strategies in track and field, and net/wall games, and acquaint them with effective teaching behaviors appropriate for these activities.

KIN 310 Analysis and Teaching of Movement V: Swimming. 2 hours.

The purpose of this course is to improve students' swimming skills and knowledge of water safety and to acquaint them with effective teaching behaviors appropriate for this activity.

KIN 311 Analysis and Teaching of Health-Related Fitness. 1 hour.

Prerequisite: Admission to PETE methods cohort.

The purpose of this course is to improve students' knowledge of the basic principles of health-related fitness and acquaint them with effective teaching behaviors appropriate for fitness instruction.

KIN 350 Secondary Curriculum. 3 hours.

Prerequisite: Admission to PETE methods cohort.

The purpose of this course is to provide students with knowledge of current curricular and instructional practices for secondary physical education programming. This course must be taken in conjunction with KIN 351.

KIN 351 Secondary Clinical Experience. 3 hours.

Prerequisite: Admission to PETE methods cohort.

The purpose of this clinical experience is to provide students with the opportunity to teach secondary students in a public school setting. This course must be taken in conjunction with KIN 350.

KIN 360 The Subject Matter of Elementary Physical Education. 3 hours.

Prerequisites: KIN 305, KIN 350, and KIN 351.

Provides knowledge of subject matter for elementary physical education and a comprehensive K–5 curriculum. Concurrent enrollment in KIN 361 is required.

KIN 361 Elementary Physical Education Curriculum, Philosophy, and Theory. 3 hours.

Prerequisites: KIN 305, KIN 350, and KIN 351.

This course is designed to help students improve their abilities to teach elementary physical education and to plan and reflect on lessons, units, and a comprehensive K–5 curriculum. This course must be taken concurrently with KIN 360.

KIN 362 Motor Development. 3 hours.

Prerequisites: Kinesiology, early childhood education, special education, or human development and family studies major; HD 101; or BEP 305.

Study of growth in phylogenetic and ontogenetic sequence, and the motor development sequence across the lifespan; integration of movement skill and knowledge development. A field experience is required.

KIN 364 Physical Education for Elementary Schools. 3 hours.

Prerequisites: Kinesiology or elementary education major and admission to PTEP.

This course is designed to provide students with knowledge of current curricular and instructional practices in elementary physical education and to provide them with opportunities to practice-teach in a public-school setting.

KIN 365 Applied Biomechanics. 3 hours.

Prerequisites: Kinesiology major and either BSC 215 or BSC 216.

Review of basic anatomy, especially the muscular system, and examination of the relationship of fundamental laws of physics to human movement. Includes mechanical principles of skill instruction and analysis.

KIN 366 Evaluation and Measurement. 3 hours.

Prerequisite: Human performance studies (kinesiology) major.

Study of the administration and evaluation of test batteries in physical education, fitness management, and personal training.

KIN 387 Field Experience in Kinesiology. 1 to 3 hours.

Prerequisite: Exercise and sport science major or PETE major.

Supervised professional experience in a fitness or related setting; observation and participation under the direction of a professional at the site.

KIN 464 Administration of Physical Education and Sport. 3 hours.

Prerequisite: Kinesiology major.

Organization and administration of health, physical education, and athletic programs for elementary and secondary schools.

KIN 468 Adapted Physical Education. 3 hours.

Prerequisite: Kinesiology major and KIN 365.

The course includes basic information on disability sport and physical education programs; roles of various service agencies and organizations; state and federal legislation; and inclusion strategies. A clinical experience is required.

KIN 487 Physical Education Teaching Methods and Practice. 3 hours.
Prerequisites: KIN 350, KIN 351, KIN 360, KIN 361, and admission to TEP. This course is designed to provide students with the knowledge and skills to implement additional curricular models at both the elementary- and secondary-school levels.

KIN 488 Internship in Exer-Sport Science. 3–12 hours.

Prerequisite: Exercise and sport science major.

Directed internship in an area of specialization, completed in cooperation with a community agency or business, clinical, or other appropriate organization. Observation and on-the-job experience through direct participation in ongoing programs.

KIN 491 Sport, Exercise, and the Social Sciences. 3 hours.

Prerequisite: Junior or senior standing.

This course explores the major issues that occupy social sciences involved in the study of sport and exercise.

KIN 492 Physiology of Exercise. 3 hours.

Prerequisite: Kinesiology major and either BSC 215 or BSC 216; or permission of the instructor.

This course examines the human physiological response to exercise.

KIN 493 Fitness Appraisal and Exercise Prescription. 3 hours.

Prerequisites: Kinesiology major and KIN 492.

A study of the application of exercise testing and prescription principles to apparently healthy and diseased populations. Successful leadership, programming, and management principles for fitness settings will also be examined.

KIN 496 Independent Study in Physical Education. 1 to 3 hours.

Prerequisite: Kinesiology major.

The purpose of this course is to provide students an opportunity to further develop their skills/knowledge/instructional techniques in the area of kinesiology.

KIN 497 Internship in Physical Education (N-12). 12 hours.

Prerequisites: Senior standing and admission to the teacher education program, KIN 350, KIN 351, KIN 360, KIN 361, KIN 487, a minimum GPA of 2.5 for all work attempted, and a minimum GPA of 2.5 in the major.

Full-time supervised teaching experience in elementary and secondary schools. Includes a weekly one-hour seminar. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experiences. Formal application meetings are held and their times will be posted in Graves Hall and announced in the *Crimson White* prior to the meetings.

KINESIOLOGY—LEISURE ACTIVITY COURSES

Professor Matthew Curtner-Smith
Department Head

Office: 106 Moore Hall

KIN 101 Physical Conditioning. 1 hour.

The purpose of this course is to introduce the student to the knowledge base underlying proper physical conditioning of the body and appropriate techniques for participation.

KIN 102 Horseback Riding. 2 hours.

The purpose of this course is to provide students with the knowledge and skills needed to participate in horseback riding.

KIN 103 Soccer. 1 hour.

The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of soccer.

KIN 104 Basketball. 1 hour.

The purpose of this course is to provide the student with the knowledge and skills necessary for participation in basketball.

KIN 105 Softball. 1 hour.

The purpose of this course is to provide the student with the knowledge and skills necessary for skilled participation in the sport of softball.

KIN 106 Beginning Golf. 1 hour.

The purpose of this course is to provide students with the knowledge and skills to participate in a basic game of golf.

KIN 107 Intermediate Golf. 1 hour.

The purpose of this course is to provide students with the knowledge and skills necessary to participate at an intermediate level in the game of golf.

KIN 108 Beginning Tennis. 1 hour.

The purpose of this course is to provide students with the necessary knowledge and skills to motivate participation in tennis.

KIN 110 Indoor Rock Climbing. 1 hour.

The purpose of this course is to help students understand and demonstrate proper risk management and safety techniques, as well as proper technical skills, in order to safely enjoy the activity of indoor rock climbing.

KIN 117 Volleyball. 1 hour.

The purpose of this course is to provide the student with the knowledge and skills necessary for participation in volleyball.

KIN 120 Aerobics. 1 hour.

This course makes available three different types of aerobics: dance, water, and spinning. Each section is designed to enhance cardiorespiratory fitness through the medium of aerobic dance, aquatic activity, or cycling. The aerobic activity should be selected by section number.

KIN 121 Beginning Social Dance. 1 hour.

The purpose of this course is to introduce the student to the basic dances that are performed in a social situation.

KIN 131 Beginning Swimming. 1 hour.

The purpose of this course is to provide students with the knowledge and skills necessary for participation in basic aquatic activities.

KIN 132 Intermediate Swimming. 1 hour.

The purpose of this course is to provide students with the knowledge and skills necessary for participation in more advanced aquatic activities.

KIN 134 Beginning Scuba Diving. 1 hour.

This course is designed to introduce students to basic scuba-diving skills, theory, and equipment.

KIN 135 Advanced Scuba Diving. 1 hour.

This course is designed to introduce students to advanced scuba-diving skills, theory, and equipment.

KIN 136 Master's Scuba Diving. 1 hour.

Prerequisites: KIN 134 and KIN 135

The purpose of this course is to provide knowledge and skills to serve as a means of participation in master level scuba diving activities.

KIN 138 Advanced Lifesaving. 3 hours.

The purpose of this course is to prepare the student both mentally and physically to supervise, coordinate, and successfully control an aquatic emergency.

KIN 140 Water Safety Instruction. 2 hours

The purpose of this course is to provide knowledge of water safety instruction so that the student will be able to instruct groups and individuals in this discipline.

KIN 145 Beginning Racquetball. 1 hour.

The purpose of this course is to provide students with the knowledge and skills necessary to participate in the game of racquetball.

KIN 155 Self Defense for Women. 1 hour.

The purpose of this course is to provide the student with the knowledge and skills that will enhance the student's ability to defend herself in case of physical or sexual assault as well as to enhance her overall personal safety.

KIN 157 Beginning Weight Training. 1 hour.

The purpose of this course is to provide students with the knowledge and skills necessary to design and follow a basic weight-training program.

KIN 167 Running. 1 hour.

The purpose of this course is to provide the student with the knowledge and skills necessary to design and follow a basic running program.

KIN 170 Beginning Karate. 1 hour.

The purpose of this course is to provide the student with the knowledge and skills necessary for participation in the sport of karate.

KOREAN (KOR)

Office: 200-D B.B. Comer Hall

KOR 101 Elementary Korean I. 3 hours.

Contemporary Korean—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Offered each semester. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director.

KOR 102 Elementary Korean II. 3 hours.

Prerequisite: KOR 101 or equivalent.

Contemporary Korean—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Offered each semester. Not repeatable without permission of the CLC director.

KOR 201 Intermediate Korean I. 3 hours.

Prerequisite: KOR 102 or equivalent.

Continuation of Korean language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

KOR 202 Intermediate Korean II. 3 hours.

Prerequisite: KOR 201 or equivalent.

Continuation of KOR 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

KOR 301 Advanced Korean I. 3 hours.

Prerequisite: KOR 201 or equivalent.

Continuation of KOR 201. Emphasis is on the development of reading skills and writing. Offered according to demand.

LATIN (LA)

Office: 239 B.B. Comer Hall

The course level at which students begin their study of Latin is determined by several factors. These factors include the following: the number of high-school units completed; language placement examination scores; or, for those with native or heritage competency, faculty evaluation.

Level Placement Criteria

LA 101	No prior instruction in Latin, fewer than two high-school units in Latin, instruction more than four years ago, or UA placement test
LA 102	UA credit for LA 101 or UA placement test
LA 201	Credit for LA 102 or UA placement test
LA 202	Credit for LA 201 or UA placement test
LA 300	Credit for LA 202 or UA placement test

LA 101 Elementary Latin I. 3 hours.

Beginning fundamentals of Latin grammar and syntax. Offered in the fall semester.

LA 102 Elementary Latin II. 3 hours.

Prerequisite: LA 101 with a grade of “C-” or higher, or language department placement.

Continued study of the fundamentals of Latin grammar and syntax. Offered in the spring semester.

LA 201 Intermediate Latin Reading I. 3 hours.

Prerequisite: LA 102.

Introduction to and practice at reading Latin literature. Offered in the fall semester.

LA 202 Intermediate Latin Reading II. 3 hours.

Prerequisite: LA 201.

Selected readings from Latin literature. Offered in the spring semester.

LA 301 Survey of Latin Literature of the Roman Republic. 3 hours.

Prerequisite: LA 202.

Readings in Latin literature to the time of Julius Caesar. Offered in the fall semester.

LA 302 Survey of Latin Literature of the Empire. 3 hours.

Prerequisite: LA 202.

Selected readings in later Roman literature. Offered in the spring semester.

LA 480 Sallust. 3 hours.

A study of the Catilinarian conspiracy by examining the Latin text from two different sources—Cicero, who wrote and delivered a number of speeches at the time and Sallust, who wrote a historical treatise. Close study of these sources reveals personal and political agendas and draws sharp distinctions between rhetorical exhibitions and historical accounts.

LA 490 Readings in Latin Literature. 3 hours.

Prerequisite: LA 301 or LA 302.

The subject matter varies. May be repeated for credit. Offered according to demand.

LEGAL STUDIES (LGS)

Dr. Billy P. Helms, Department Head

Office: 200 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

LGS 200 is a prerequisite for all advanced legal studies courses.

LGS 200 Legal Environment of Business. 3 hours.

Environmental approach to the study of law, including the way the law interrelates, philosophy of law, and sources of law. The relationship among law, business, political influences, and the society is treated.

LGS 402 Government and Business. 3 hours.

Prerequisites: EC 111 and LGS 200.

This course is designed to give students some information about the regulations which government may or may not impose upon business, leaving students free to form their own conclusions as to their wisdom, adequacy, and practicability. Survey of basic constitutional principles and legal aspects of recent federal legislation affecting business and antitrust laws.

LGS 403 Administration of Estates and Trusts. 3 hours.

Prerequisites: EC 110 and LGS 200.

This course treats principles and rules of law relating to wills and inheritances; how the estates of deceased persons are administered; why and how trusts are created and operated; and the duties and settlement of executors, administrators, and trustees.

LGS 405 International Business Law. 3 hours.

Prerequisites: EC 110 and LGS 200.

This course is concerned with the law pertaining to international marketing, regulations pertaining to import-export trade, etc.

LGS 407 Real and Personal Property Law. 3 hours.

Prerequisites: EC 110, AC 210, and LGS 200.

This course is concerned with the conveyance of property, deeds, covenants, condemnation of property, rights of landlord and tenant, and bailments.

LGS 472 Legal Aspects of Health Care (also HCM 472). 3 hours.

Prerequisite: HCM 370.

Examines aspects of the law that are of most concern to individuals in health care management, including administrative law, hospital law, welfare law, public health law, and licensing and legislation.

LGS 491 Independent Study in Legal Studies. 1-6 hours.

Students may earn degree credit for only one independent study course (491).

LGS 492 Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.50 or higher. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services.

LGS 497 Special Topics. 3 hours.**LIBRARY AND INFORMATION STUDIES (LS)**

Dr. Elizabeth Aversa, Director

Office: 513 Gorgas Library

LS 404 Media Production and Utilization. 3 hours.

Consists of instructional modules that introduce the student to the basic skills in the preparation and utilization of educational media.

LS 421 Materials and Services for Children. 3 hours.

Explores the materials (print and nonprint) and programs appropriate for children age three to 12.

LS 422 Materials and Services for Young Adults. 3 hours.

Explores the materials (print and nonprint) and programs appropriate for teenagers.

LS 440 Advanced Media Production and Utilization. 3 hours.

Prerequisite: LS 404.

Consists of instructional modules that advance the student to the more complex skills in the preparation and utilization of educational media.

LS 452 Modern Book Publishing. 3 hours.

Examination of American book publishing in the 20th century. The publisher's functions are identified, and the role of the publisher in cultural life is traced from the late 19th century to the present. Attention is paid to authorship, methods of bookmaking, book distribution, and contemporary commercial and technological trends affecting publishing.

MANAGEMENT (MGT)

Dr. Rob Morgan, Department Head

Office: 104 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

MGT 300 Organizational Theory and Behavior. 3 hours.

A course designed to help students understand organizational theory, interpersonal communication, and other behavioral science concepts and then integrate them into managerial tools for effective use in business, industry, and public-sector organizations.

MGT 301 Introduction to Human Resources Management. 3 hours.

Prerequisite: MGT 300.

Introductory course surveying problems and issues in labor economics, personnel management, and labor relations. Emphasis is placed on public policies affecting management and union representatives and on the role of the human resources manager in the organization.

MGT 302 Organizational Communication: Theory and Practice.

3 hours.

Prerequisite: MGT 300.

This course offers an interdisciplinary approach to the study of communication within an organizational setting. The objectives of the course are to improve students' understanding of communication as it relates to and operates within organizations; to give students an opportunity to apply communication skills to organizational situations, including interviews and conferences; and to enable students to control more effectively the data flows that enable an organization to carry out its function.

MGT 320 Leadership. 3 hours.

Prerequisite: MGT 300.

This course focuses on the interpersonal dynamics of managers, professionals, and entrepreneurs at work. Case analysis and simulation of problem solving and decision making are used to develop insight into human relations in organizations as well as to develop the personal and interpersonal skills needed in leadership roles.

MGT 331 Development of American Organizations. 3 hours.

Prerequisite: MGT 300.

This course emphasizes the economic, political, and social environments that have influenced the growth and development of philosophies and practices of both labor and management in American organizations.

MGT 341 Contemporary Ethical Issues and Corporate Responsibility.

3 hours.

Prerequisite: MGT 300.

Systematic examination of current issues and problems in the organization and management of business enterprises. The course combines readings, cases, and lectures that focus on the roles, activities, and ethical choices of managers as they direct organizations within the context of our contemporary society.

MGT 351 Multinational Business Communication (also IBA 351).

3 hours.

Prerequisite: IBA 350 and MGT 300.

A study of the principles and practices of intercultural business communication, written and interpersonal. The course requires substantial reading. The focus is on making students aware of the sources of common

intercultural business communication problems, and on helping them develop strategies to avoid or correct these problems.

MGT 380 Management Presentations. 3 hours.

Prerequisite: MGT 300.

Instruction and practice in the presentation of information in a business environment. Topics include conference-room presentations, media briefings, team presentations, television interviews, and audiovisual development.

MGT 385 Fundamentals of Entrepreneurship. 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300.

This course provides an opportunity to discuss a variety of perspectives (economic, sociological, cultural, and historical) for understanding the creation and evolution of entrepreneurship in different environments. Examination of entrepreneurial types, including corporate entrepreneurs and "not-for-profit" entrepreneurs, is included.

MGT 386 Foundations of Entrepreneurship. 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300.

Emphasis is on how to manage a small company and operate it profitably. Special attention is given to the problems of different types of small enterprises, such as those in retail, service, franchise, and manufacturing industries.

MGT 406 Family Business. 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300.

This course draws on emerging research to teach students the importance of and challenges involved in family businesses. It also seeks to expose students to the major "how-to" issues in family business and the means for addressing them.

MGT 420 Organizational Change. 3 hours.

Prerequisite: MGT 300 or permission of instructor.

An investigation of structural, technological, humanistic, and task approaches to organizational change; the resistance to change; and the implementation of change in business and in private- and public-sector organizations.

MGT 421 Corporate Entrepreneurship and Innovation. 3 hours.

Prerequisite: MGT 300.

This course uses a case analysis method to examine the development and implementation of managerial actions in modern organizations.

MGT 422 Leadership Communication. 3 hours.

Prerequisite: MGT 300.

MGT 427 Strategic Human Resource Management. 3 hours.

This course is designed to provide a broad, strategic overview of human resource management with practical applications. It will define and describe strategic HRM and identify the specific HR issues within organizational strategies, goals, and tasks.

MGT 431 Public Sector Employee Relations. 3 hours.

Prerequisite: MGT 300.

This course is concerned with the analysis of conceptual and operational problems, policies, and practices related to management of human resources in public-sector organizations. Topics discussed include the structural, behavioral, and legal environment of management-employee relations and personnel practices in government agencies.

MGT 432 Employee/Industrial Relations. 3 hours.

Prerequisite: MGT 300.

This course is designed to provide a broad overview of the issues relating to public and private sector employee relations in the United States. Topics covered include the role of unions in the employment relationship, strategic HR issues that relate to the employment relationship, negotiating, and other forms of dispute resolution.

MGT 459 Seminar in International Management (also IBA 459). 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300.

Designed for students interested in understanding the demands of managing an international or multinational organization. The perspective is both strategic and operational, considering both how global and domestic market factors affect decisions on moving business activities abroad, and how the decision to become international requires adjustments to traditional domestic operations and business activities.

MGT 460 Contemporary Issues in Human Resources Management.

3 hours.

Prerequisites: MGT 300 and MGT 301, or permission of instructor.

A senior seminar devoted to study of timely and significant issues in human resources management. Techniques of empirical and field research will be utilized.

MGT 477 Compensation and Performance Management. 3 hours.

Prerequisite: MGT 300.

This course will enable students to identify the components of a total reward system, understand the major compensation system design issues, become

familiar with the provisions of the FLSA, and understand the relationship between compensation and performance management.

MGT 482 New Venture Development. 3 hours.

Prerequisites: EC 110, AC 210, and MGT 300.

This course provides an opportunity to develop a business plan for a new venture or for expansion of an existing company. Students are expected to acquire skills in evaluating business ventures; to learn alternative financing sources; to develop ideas for differentiating products; and to develop an understanding of what is required to harvest the profits of a growing business.

MGT 485 Managing Growth Strategies. 3 hours.

Prerequisite: MGT 300.

This course examines company growth strategies, including expansion into international operations. The unique problems of family influences and operating problems in developing companies are analyzed.

MGT 486 Small Business Consulting Field Project. 3 hours.

Prerequisite: MGT 300.

This course is designed to offer education and training in the art of management consulting as it applies to smaller firms. The overall purpose of the course is the acquisition of knowledge and skills that will enable students to provide management advice to entrepreneurs and businesspersons to improve the performance of smaller organizations.

MGT 491 Independent Study in Management. 1-3 hours.

Students may earn degree credit for only one independent study course (491).

The course offers students interested in management the opportunity to study in a particular area of the field, under the guidance of an individual faculty member. Open to juniors and seniors with the advice and permission of the appropriate instructor and the approval of the program chairperson.

MGT 492 Internship in Human Resources Management. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.5 or higher. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.

MGT 497 Special Topics. 3 hours.

MANAGEMENT INFORMATION SYSTEMS (MIS)

Dr. Mike Conerly, Department Head

Office: 300 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking enrollment in any 300- or 400-level course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121 or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

MIS 200 Fundamentals of Management Information Systems. 3 hours.

Prerequisite: CS 102.

Business process coordination and decision making through the use of information technology will be explored, emphasizing IT use by organizations in increasingly global markets.

MIS 295 Business Analysis and Project Management. 3 hours.

Prerequisite: CS 120 (may be taken concurrently).

An introduction to the fundamental concepts of business-process analysis, team-based project management, and use of information technology resources to develop information systems. Emphasis is placed on creating business value in systems ranging from transactional processing to e-commerce.

MIS 320 Application and Information Architecture. 3 hours.

Prerequisites: MIS 295, CS 220, and either admission to the MIS program or permission of the director of the MIS program.

The study and application of software engineering, application patterns, and file structures. Students design, construct, and test software structures for effective information management.

MIS 330 Database Administration. 3 hours.

Prerequisites: MIS 295 and CS 120 and either admission to the MIS program or permission of the director of the MIS program.

Logical data modeling, RDBMS, and their use in the business enterprise are presented. Topics include anomalies/normalization, database-connections performance, n-tier architecture, query operations, stored processes and integrity triggers, and Web applications.

MIS 340 Data Communications and Networks in a Global Environment. 3 hours.

Prerequisites: CS 120; MIS 200 or MIS 295; and either admission to the MIS program or permission of the director of the MIS program.

Data Comm (DC) models, components, terminology, and interaction effects between DC and software applications are evaluated in multiple network architecture configurations supporting transactional knowledge workers, e-business, and e-commerce applications.

MIS 430 Systems Analysis and Design I. 3 hours.

Prerequisites: MIS 320, MIS 330.

Corequisite: MIS 450.

Intermediate-level skills in systems analysis and design techniques are presented. Emphasis is placed on systems development and delivery tools, methods, standards, and processes.

MIS 431 Systems Analysis and Design II. 3 hours.

Prerequisites: MIS 430, MIS 450, and CS 438 or MIS 340.

Corequisite: MIS 451.

Advanced-level skills in systems analysis and design techniques are presented. Emphasis is placed on enterprise-level systems development, creation of tailored methodologies, creation of architectural standards, metrics, and business strategy alignment.

MIS 440 Decision Support Systems. 3 hours.

Prerequisite: MIS 320 or MIS 295.

This course assesses information and process requirements to support business decisions in organizations. Students conceptualize, design, develop, and deliver model-based information systems designed to support effective managerial decision making.

MIS 450 Systems Construction and Implementation I. 3 hours.

Prerequisites: MIS 320 and MIS 330.

Corequisite: MIS 430.

Leveraging software development skills from prior MIS and CS courses, students construct, test, and deploy IT-based business solutions.

MIS 451 Systems Construction and Implementation II. 3 hours.

Prerequisites: MIS 430, MIS 450, and CS 438 or MIS 340.

Corequisite: MIS 431.

Development of advanced software engineering skills to develop, deploy, test, document, and assess large-scale IT-based business solutions. Conversion, migration, training, maintenance, and operations plans and budget are emphasized.

MIS 491 Independent Study in Management Information Systems. 1-3 hours.

Students may earn degree credit for only one independent study course (491).

MIS 492 Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a GPA of 2.50 or higher. Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services. Students may earn degree credit for only one internship (492).

MIS 497 Special Topics. 3 hours.

MARINE SCIENCE (MS)

Office: 1324 Science and Engineering Complex

The following courses are taught during the summer session at the Dauphin Island Sea Lab on Dauphin Island, Alabama.

MS 304 Marine Geology. 4 hours.

Prerequisite: GEO 101.

Credit earned in this course may not be applied to the requirements of the biological sciences major or minor. Field sampling techniques, laboratory analysis of sediments, topography, sediments, and history of the world oceans.

MS 306 Marine Biology. 4 hours.

Prerequisites: BSC 114:115 or BSC 118, and BSC 116:117 or BSC 120. Survey of the invertebrates, vertebrates, and marine plants as communities, with emphasis on local examples.

MS 398 Undergraduate Research. 1 to 4 hours.

Prerequisites: Junior or senior standing, a written synopsis of the proposed project, and permission of a supervising faculty member.

A written report of the work performed is required. A maximum of 4 hours may be applied toward the interdisciplinary marine science degree.

MS 408 Marine Invertebrate Zoology. 4 hours.

Prerequisites: BSC 114:115 or BSC 118, and BSC 116:117 or BSC 120.

Comparative study of the major marine invertebrate phyla, protozoa through protochordates. The focus is on their morphology, physiology, ecology, and phylogenetic relationships.

MS 411 Marsh Ecology. 4 hours.

Prerequisites: General chemistry, general physics, general biology, BSC 385, and MATH 125 or MATH 145.

Study of the floral and faunal elements of various marine marsh communities. The interaction of physical and biological factors is emphasized. Field trips acquaint students with regional examples of marsh types.

MS 419 Marine Ecology. 4 hours.

Prerequisites: General chemistry, general physics, general biology, BSC 385, and MATH 125 or MATH 145.

Bioenergetics, community structure, population dynamics, predation, competition, and specialization in marine ecosystems.

MS 433 Coastal Zone Management: 2 hours.

Review of ecological features, physical management policies for coastal communities, and a description of relevant federal and state programs.

MS 448 Introduction to Oceanography. 4 hours.

Prerequisites: General physics, general biology, and MATH 125 or MATH 145.

A general introduction to the oceans, with emphasis on chemical, physical, and geological processes and their relation to biological systems.

MS 452 Marine Vertebrate Zoology. 4 hours.

Prerequisite: BSC 373 or BSC 400.

Systematics, zoogeography, and ecology of marine vertebrates.

MS 453 Marine Botany. 4 hours.

Prerequisite: BSC 360 or BSC 371.

Reproduction, taxonomy, systematics, distribution, and ecology of the major marine plant groups.

MS 497 Special Topics. 1 to 4 hours.

Prerequisite: Permission of the instructor.

A marine science topic not covered in other courses. The credit hours and format are determined as appropriate to the topic. Offered according to demand and instructor availability.

MARKETING (MKT)

Dr. Rob Morgan, Department Head

Office: 104 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

MKT 300 and EC 110 are prerequisites for all marketing courses numbered above 300.

MKT 300 Marketing. 3 hours.

Prerequisite: EC 110.

A survey course that describes the nature of domestic and global marketing management. Emphasis is placed on market analysis to include consumer, industrial, institutional, and governmental markets for goods and services. Also emphasized are the marketing management functions of planning, pricing, promoting, and distributing goods and services in business and nonprofit contexts.

MKT 310 Introduction to Electronic Commerce. 3 hours.

A survey of interactive, electronic media and technology that enable organizations to 1) acquire products, services, and materials from suppliers, 2) market goods and services to customers, 3) allow members of the organization to communicate with each other, and 4) monitor the external

environment. Students develop e-commerce-related skills to design and execute a firm's marketing efforts, including Web project management, electronic market development and management, Web-enabled selling, and other emerging areas of marketing.

MKT 313 Buyer Behavior. 3 hours.

Analysis of the basic processes underlying buyer behavior. Various factors are examined, including external influences (e.g., culture, reference groups, family) and internal influences (e.g., perceptions, attitudes, personality). Primary emphasis is on final consumers with a secondary emphasis on the external and internal influences affecting organizational buyers.

MKT 321 Retail Management. 3 hours.

Prerequisite: AC 210.

Analysis of existing generalizations and principles related to the economic and social role of retailing; competitive strategies; efficiency in retailing; and essential concepts for retail management.

MKT 337 Personal Selling. 3 hours.

Introduction to successful selling practices and principles through presentation, discussion, role playing, and workshops. Includes principles of prospecting, establishing rapport, generating curiosity, being persuasive, creating desire, handling objections, and closing.

MKT 338 Sales Management. 3 hours.

Prerequisite: MKT 300.

This course builds on the basic sales process taught in Personal Selling (MKT337) by focusing on Account Management and Team Management. Through class discussion and an Account Plan project, students gain an understanding of customer partnerships, business management, and sales team development. The concept that sales managers must both implement and facilitate corporate marketing plans is pervasive through the course.

MKT 385 Marketing Information Systems. 3 hours.

Prerequisite: AC 210.

Introduces students to the types of information systems used in marketing as well as develop the basic analytical skills necessary to use the output from such systems. The course has a decision-making focus and will survey the tools available for marketing decision making.

MKT 410 Product Development. 3 hours.

Systematic examination of product policy and of the major concepts, methods, and strategies involved in decision making in the course of developing new products. Techniques and criteria used to identify and implement new products and services are examined in depth. Consideration is given to issues and strategies involved in the management of mature products.

MKT 411 Supply Chain Management. 3 hours.

Prerequisite: AC 210.

Supply chain management encompasses the design and administration of the systems of suppliers and distributors that collectively provide for the exchange of title, physical movement, and storage activities in marketing. The scale and complexity of supply chain relationships are escalating as firms strive to enhance interorganizational effectiveness and efficiency. This course examines the role of manufacturers and intermediaries in channel strategies and the scope, methods, problems, and opportunities of systemic supply chain coordination.

MKT 422 Logistics Management. 3 hours.

Prerequisite: AC 210.

Logistics is a system-based concept requiring the effective coordination of the flow of materials and goods from the point of origin to the end user. This course explores the key marketing tasks necessary to achieve an efficient logistics network: transportation, warehousing and materials handling, inventory management, forecasting, information and order processing, and simulation/modeling.

MKT 427 Business-to-Business Marketing. 3 hours.

Students examine structure of industrial markets; marketing and purchasing strategies; information sources for industrial marketing decisions; competitive strategies and tools for different types of industries; and industrial growth opportunities. Includes analysis of a particular industry and its markets and building of a marketing plan for competing within that industry.

MKT 437 Advanced Sales. 3 hours.

Prerequisite: MKT 300, MKT 337.

This course is focused on enabling students to apply the sales process taught in Personal Selling (MKT 337). Students get the opportunity to practice sales skills by marketing University of Alabama Sales Program events to designated corporate partners through a group project. The group project drives class discussion by giving students real examples of the sales process.

MKT 444 Promotional Management. 3 hours.

Intensive investigation of underlying ideas, principles, and concepts that may be used to inform consumers of the availability and attributes of products and services. The course includes a comprehensive overview of promotional and sales management activities and tactics.

MKT 446 Measuring Marketing Effectiveness. 3 hours.

Prerequisite: AC 210.

Analytical tools and techniques used to manage marketing activities are examined, with emphasis on the factors underlying differences in marketing efficiency and effectiveness. The following activities and measurements are examined: natural versus functional accounts; contribution and segmental analysis; planning, budgeting, and controlling marketing operations; monitoring product/customer market performance; developing standard costs and modular databases; direct product profitability (DPP); and financial measurement techniques such as ROI, RONW, net present value, forward buys, and inventory carrying costs.

MKT 455 International Marketing. 3 hours.

Prerequisite: AC 210.

An examination of various economic, political, and cultural factors that affect marketing of products and services worldwide. Study of how managers can profitably compete in the global marketplace.

MKT 460 Export/Import Management (also IBA 460). 3 hours.

Prerequisite: AC 210.

Course includes a thorough examination of export-import management processes and highlights the importance of management in international business strategy.

MKT 473 Marketing Intelligence. 3 hours.

Prerequisite: ST 260.

Designed to prepare the student to be an informed, effective user of marketing research. Provides an overview of research techniques available for collecting information to answer specific research questions. Therefore, the orientation of the course is managerial.

MKT 487 Strategic Marketing. 3 hours.

Prerequisites: Senior status, AC 210 and MKT 313.

Analysis of marketing problems as they relate to the managerial functions of planning, organizing, and controlling marketing.

MKT 488 Field Project in Marketing. 3 hours.

Working with a client firm, students apply—in a practical setting—the skills and knowledge they have acquired and build new skills in project management.

MKT 491 Independent Study. 1-3 hours.

Students may earn degree credit for only one independent study course (491).

MKT 492 Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.50 or higher. Students may earn degree credit for only one internship (492). Students are selected through a competitive process for assignments in approved business or public sector organizations. The internship is administered through the C&BA Office of Student Services.

MKT 493 Special Topics in Marketing. 3 hours.

Courses that offer the faculty a chance to present topics of interest to themselves and to marketing students.

MASS COMMUNICATION (MC)

College of Communication and Information Sciences

MC 101 Introduction to Mass Communication. 3 hours.

Introduction to the fields of communication, including theory, law and regulation, history, social implications, and mass media operations.

MC 103 Fundamentals of Information Literacy. 3 hours.

Information literacy is crucial to being successful in the Information Age. Individuals need to be able to locate, evaluate, and use information effectively and efficiently. Information ethical issues are also important.

Only students who have earned 61 hours or more and have completed MC 101 are allowed to enroll in 400-level mass communication courses. Students enrolled in 400-level MC courses must have a grade point average of 2.0 or higher.

MC 401 Mass Communication Law and Regulation. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Study of laws and regulations affecting the mass media and the fields of mass communication. May be taken for graduate credit.

MC 405 Mass Communication Ethics. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Freedoms and responsibilities of mass media practitioners and institutions, explored within the framework of ethical theory. Consideration of values, codes of ethics, moral development, professionalism, institutional constraints, etc., as applied to media of information, persuasion, and entertainment. May be taken for graduate credit.

MC 407 Mass Communication Research. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Overview and application of the methods used in quantitative and qualitative mass communication research.

MC 409 Mass Communication History. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Study of the historical development of mass communication. May be taken for graduate credit. Writing proficiency is a required for passing this W-designated course.

MC 411 International Mass Communication. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Course topics include but are not limited to the following: comparative mass communication systems, mass communication and development, international communication and the transnational news media, and mass communication and globalization. May be taken for graduate credit.

MC 413 Communication and Diversity (also COM 413). 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Study and analysis of issues of diversity as they relate to groups in society and in mass communication fields. Emphasis is on the mass media's treatment of various groups in society. Writing proficiency is a required for passing this W-designated course. May be taken for graduate credit.

MC 415 Mass Communication Processes and Effects. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Mass communication processes and their social-psychological and cultural effects on the individual, groups, and society; impact of media messages on knowledge, attitudes, and behavior. May be taken for graduate credit.

MC 421 Political Communication (also APR 420 and COM 421). 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

The purpose of this course is to explore the general character and dimensions of the cross-disciplinary field of political communication. The principal aim is to familiarize each participant with the literature and propositions surrounding key approaches, methods, and substantive areas of inquiry in political communications. Writing proficiency is a requirement for passing this W-designated course.

MC 425 Media Management. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

The structure and function of media organizations. The decision-making processes inherent in running complex media businesses. Effective leadership styles. Traditional marketing perspectives applied to media. Laws and regulations that affect media management. Writing proficiency is required and must be demonstrated in order to pass this W-designated course.

MC 444 Lobbying. 3 hours.

Prerequisites: MC101; 61 hours or more earned.

A survey of legislative/political techniques and communication strategies and tactics used by corporations, trade associations, and other interest groups to successfully impact federal policymaking.

MC 495 Special Topics in Mass Communication. 3 hours.

Prerequisites: MC 101; 61 hours or more earned.

Special topics in mass communication theory and research. May be taken for graduate credit.

MATHEMATICS (MATH)

Office: 345 Gordon Palmer Hall

Upon entering the University, each student is assessed to determine the first mathematics course for which he or she should register. Students placed in MATH 005 must complete MATH 005 as a prerequisite for MATH 100. Students placed in MATH 100 must complete MATH 100 as a prerequisite for MATH 110, MATH 112, MATH 115, or any other M-designated course. A grade of "C-" or higher is required in all prerequisite mathematics courses. A student is exempt from taking the mathematics assessment if she or he has completed a high-school calculus course with a grade of "C-" or higher AND has scored 29 or higher on the ACT math test or 640 or higher on the SAT math test.

MATH 005 Remedial Mathematics. No credit awarded.

Prerequisite: One unit of high-school mathematics.

Brief review of arithmetic operations followed by intensive drill in basic algebraic concepts: factoring, operations with polynomials and rational expressions, linear equations and word problems, graphing linear equations, simplification of expressions involving radicals or negative exponents, and elementary work with quadratic equations. Grades are reported as pass/fail.

MATH 100 Intermediate Algebra. 3 hours.

Prerequisites: Placement and two units of college-preparatory mathematics; if a student has previously been placed in MATH 005, a grade of "C-" or higher in MATH 005 is required.

Intermediate-level course including work on functions, graphs, linear equations and inequalities, quadratic equations, systems of equations, and operations with exponents and radicals. The solution of word problems is stressed. NOT APPLICABLE to UA Core Curriculum mathematics requirement. Grades are reported as "A," "B," "C," or "NC" (No credit).

MATH 110 Finite Mathematics. 3 hours.

Prerequisites: Placement and two units of college-preparatory mathematics; if a student has previously been placed in MATH 100, a grade of "C-" or higher in MATH 100 is required.

Sets and counting, permutations and combinations, basic probability, conditional probability, matrices and their application to Markov chains, and a brief introduction to statistics. Grades are reported as "A," "B," "C," or "NC" (No credit).

MATH 112 Precalculus Algebra. 3 hours.

Prerequisites: Placement and three units of college-preparatory mathematics; if a student has previously been placed in MATH 100, a grade of "C-" or higher in MATH 100 is required.

A higher-level course emphasizing functions including polynomial functions, rational functions, and the exponential and logarithmic functions. Graphs of these functions are stressed. The course also includes work on equations, inequalities, systems of equations, the binomial theorem, and the complex and rational roots of polynomials. Applications are stressed. Grades are reported as "A," "B," "C," or "NC" (No credit).

MATH 113 Precalculus Trigonometry. 3 hours.

Prerequisite: MATH 112.

Continuation of MATH 112. The course includes study of trigonometric functions, inverse trigonometric functions, trigonometric identities, and trigonometric equations. Complex numbers, De Moivre's Theorem, polar coordinates, vectors, and other topics in algebra are also addressed, including conic sections, sequences, and series. Grades are reported as "A," "B," "C," or "NC" (No credit).

MATH 115 Precalculus Algebra and Trigonometry. 3 hours.

Prerequisite: Placement and a strong background in college-preparatory mathematics, including one-half unit in trigonometry.

Properties and graphs of exponential, logarithmic, and trigonometric functions are emphasized. Also includes trigonometric identities, polynomial and rational functions, inequalities, systems of equations, vectors, and polar coordinates. Grades are reported as "A," "B," "C," or "NC" (No credit). Degree credit will not be granted for both MATH 115 and MATH 112 or MATH 113.

MATH 121 Calculus and Its Applications. 3 hours.

Prerequisite: MATH 112 or equivalent.

A brief overview of calculus primarily for students in the Culverhouse College of Commerce and Business Administration. **Warning: This course is not satisfactory preparation for curricula requiring standard calculus or higher mathematics, and it is not a prerequisite to calculus or higher mathematics.** Includes differentiation and integration of algebraic, exponential, and logarithmic functions, and applications in business and economics. Some work on functions of several variables and Lagrange

multipliers is done. L'Hopital's Rule and multiple integration are included. Only business-related applications are covered. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.

MATH 125 Calculus I. 4 hours.

Prerequisites: MATH 112 and MATH 113, MATH 115, or placement.

This is the first of three courses in the basic calculus sequence. Topics include the limit of a function; the derivative of algebraic, trigonometric, exponential, and logarithmic functions; and the definite integral. Applications of the derivative are covered in detail, including approximations of error using differentials, maxima and minima problems, and curve sketching using calculus. There is also a brief review of selected precalculus topics at the beginning of the course. Degree credit will not be granted for both MATH 121 and MATH 125 or MATH 145.

MATH 126 Calculus II. 4 hours.

Prerequisites: MATH 125 or MATH 145.

This is the second of three courses in the basic calculus sequence. Topics include vectors and the geometry of space, applications of integration, integration techniques, L'Hopital's Rule, improper integrals, parametric equations, polar coordinates, conic sections, and infinite series.

MATH 145 Honors Calculus I. 4 hours.

Honors sections of MATH 125.

MATH 146 Honors Calculus II. 4 hours.

Honors sections of MATH 126.

MATH 208 Mathematics for Elementary School Teachers: Numbers and Operations. 3 hours.

Prerequisites: Elementary education or special education major and grade of "C-" or higher in MATH 100.

Arithmetic of whole numbers and integers, fractions, proportion and ratio, and place value. Class activities initiate investigations underlying mathematical structure in arithmetic processes and include hands-on manipulatives for modeling solutions. Emphasis is on the explanation of the mathematical thought process. Students are required to verbalize explanations and thought processes and to write reflections on assigned readings on the teaching and learning of mathematics.

MATH 209 Mathematics for Elementary School Teachers: Geometry and Measurement. 3 hours.

Prerequisites: Elementary education or special education major and grade of "C-" or higher in MATH 208.

Properties of two- and three-dimensional shapes, rigid motion transformations, similarity, spatial reasoning, and the process and techniques of measurement. Class activities initiate investigations of underlying mathematical structure in the exploration of shape and space. Emphasis is on the explanation of the mathematical thought process. Technology specifically designed to facilitate geometric explorations is integrated throughout the course.

MATH 210 Mathematics for Elementary School Teachers: Data Analysis, Statistics, and Probability. 3 hours.

Prerequisites: Elementary education or special education major and grade of "C-" or higher in MATH 209.

Data analysis, statistics, and probability, including collecting, displaying/representing, exploring, and interpreting data, probability models, and applications. Focus is on statistics for problem solving and decision making, rather than calculation. Class activities deepen the understanding of fundamental issues in learning to work with data technology specifically designed for data-driven investigations and statistical analysis is integrated throughout the course.

MATH 227 Calculus III. 4 hours.

Prerequisite: MATH 126 or MATH 146.

This is the third of three courses in the basic calculus sequence. Topics include vector functions and motion in space, functions of two or more variables and their partial derivatives, applications of partial derivatives (including Lagrange multipliers), quadric surfaces, multiple integration (including Jacobian), line integrals, Green's Theorem, vector analysis, surface integrals, and Stokes' Theorem.

MATH 237 Introduction to Linear Algebra and Matrix Theory. 3 hours.

Prerequisite: MATH 126 or MATH 146.

Corequisite: MATH 227 or MATH 247.

Fundamentals of matrices and vectors in Euclidean space. Topics include solving linear systems of equations, matrix algebra, inverses, determinants, eigenvalues and eigenvectors. Also covers the basic notions of span, subspace, linear independence, basis, dimension, linear transformation, range, and null-space. Use of mathematics software is an integral part of the course.

MATH 238 Applied Differential Equations I. 3 hours.

Prerequisite: MATH 126 or MATH 146.

Corequisite: MATH 227 or MATH 247.

Introduction to analytic and numerical methods for solving differential equations. Topics include numerical methods and qualitative behavior of first order equations, analytic techniques for separable and linear equations, applications to population models and motion problems; techniques for solving higher-order linear differential equations with constant coefficients (including undetermined coefficients, reduction of order, and variation of parameters), applications to physical models; the Laplace transform (including initial value problems with discontinuous forcing functions). Use of mathematics software is an integral part of the course.

MATH 247 Honors Calculus III. 4 hours.

Honors sections of MATH 227.

MATH 257 Linear Algebra. 3 hours.

Prerequisite: MATH 126 or MATH 146.

Corequisite: MATH 227 or MATH 247.

A theory-oriented course in which students are expected to understand and prove theorems. Topics include vector spaces and subspaces, linear independence, bases and dimension of vector spaces, solving systems of linear equations, matrices, determinants, linear transformations, eigenvalues, eigenvectors, and diagonalization.

MATH 300 Introduction to Scientific Computing. 3 hours.

Prerequisites: MATH 227 (or MATH 247), CS 150 or GES 126, and ability to program in a high-level programming language.

Credit will not be granted for both MATH 300 and MATH 411. A beginning course in numerical analysis. Topics include number representation in various bases, error analysis, location of roots of equations, numerical integration, interpolation and numerical differentiation, systems of linear equations, approximations by spline functions, and approximation methods for first-order ordinary differential equations and for systems of such equations.

MATH 301 Discrete Mathematics. 3 hours.

Prerequisite: MATH 125 or MATH 145.

An introductory course that primarily covers logic, recursion, induction, modeling, algorithmic thinking, counting techniques, combinatorics, and graph theory.

MATH 307 Introduction to the Theory of Numbers. 3 hours.

Prerequisite: MATH 301.

Divisibility theory in the integers, the theory of congruencies, Diophantine equations, Fermat's theorem and generalizations, and other topics. Usually offered in the spring semester.

MATH 309 Foundations of Mathematics. 3 hours.

Prerequisite: MATH 126 or MATH 146.

Provides background material for middle school and secondary school mathematics teachers. Topics include logic and proof, set theory, mathematical induction, Cartesian products, relations, functions, cardinality, basic concepts of higher algebra, and field properties of real numbers. Usually offered in the fall semester.

MATH 310 Mathematical Modeling. 3 hours.

Prerequisite: MATH 237 and MATH 238.

Development, analysis, and evaluation of mathematical models for problems in the sciences and engineering; both analytical and numerical solution techniques are required.

MATH 343 Applied Differential Equations II. 3 hours.

Prerequisite: MATH 238.

Continuation of MATH 238. Topics include series solutions of differential equations, the method of Frobenius, Fourier series, method of separation of variables for partial differential equations, elementary boundary value problems for the Laplace, heat and wave equations, an introduction to Sturm-Liouville boundary value problems, and stability of autonomous systems. Usually offered in the fall semester.

MATH 355 Theory of Probability. 3 hours.

Prerequisite: MATH 227 or MATH 247.

The foundations of the theory of probability, laws governing random phenomena, and their practical applications in other fields. Topics include probability spaces, properties of probability set functions, conditional probability, an introduction to combinatorics, discrete random variables, expectation of discrete random variables, Chebyshev's Inequality, continuous variables and their distribution functions, and special densities.

MATH 371 Advanced Linear Algebra. 3 hours.

Prerequisite: MATH 237 and MATH 301.

Topics include inner product spaces, norms, self adjoint and normal operators, orthogonal and unitary operators, orthogonal projections and the spectral theorem, bilinear and quadratic forms, generalized eigenvectors, and Jordan canonical form. Usually offered in the spring semester.

MATH 382 Advanced Calculus. 3 hours.

Prerequisites: MATH 227 (or MATH 247) and MATH 237 or MATH 257.

Further study of calculus with emphasis on theory. Topics include limits and continuity of functions of several variables; partial derivatives; transformations and mappings; vector functions and fields; vector differential operators; the derivative of a function of several variables as a linear transformation; Jacobians; change of variables in multiple integrals; line and surface integrals; and Green's, Stokes', and Divergence Theorems.

MATH 402 History of Mathematics. 3 hours.

Prerequisite: Permission of the department; background in traditional high-school geometry, algebra, or calculus is recommended.

Survey of the development of some of the central ideas of modern mathematics, with emphasis on the cultural context.

MATH 403 Advanced Mathematical Connections and Their Development. 3 hours.

Prerequisite: MATH 237 and MATH 301.

Corequisite: MATH 470 or MATH 486.

Explore the interconnections between the algebraic, analytic, and geometric areas of mathematics with a focus on properties of various number systems, importance of functions, and the relationship of algebraic structures to solving analytic equations. This exploration will also include the development and sequential nature of each of these branches of mathematics and how it relates to the various levels within the algebra mathematics curriculum.

MATH 404 Topics in Mathematics for Secondary Teachers. 1 hour.

Prerequisite: Math 301.

This is a seminar style course focusing on various mathematical topics related to the high school curriculum. Topics will vary depending upon instructor.

MATH 405 Geometry for Teachers. 3 hours.

Prerequisite: MATH 403 or permission of the instructor.

This course will give an overview of geometry from a modern point of view. Both axiomatic and analytic approaches to geometry will be used. The construction of geometric proofs will play an important role.

MATH 410 Numerical Linear Algebra. 3 hours.

Prerequisite: MATH 237.

Further study of matrix theory, emphasizing computational aspects. Topics include direct solution of linear systems, analysis of errors in numerical methods for solving linear systems, least-squares problems, orthogonal and unitary transformations, eigenvalues and eigenvectors, and singular value decomposition. Usually offered in the spring semester.

MATH 411 Introduction to Numerical Analysis (previously MATH 311). 3 hours.

Prerequisites: MATH 238; MATH 237; CS 150 or GES 126; and ability to program in a high-level programming language.

Credit will not be granted for both MATH 411 and MATH 300. A rigorous introduction to numerical methods, formal definition of algorithms, and error analysis and their implementation on a digital computer. Topics include interpolation, roots, linear equations, integration and differential equations, and orthogonal function approximation. Usually offered in the fall semester.

MATH 419 Introduction to Optimization. 3 hours.

Prerequisite: MATH 237.

A one-semester introduction to both linear and nonlinear programming for undergraduate students and non-math graduate students. Emphasis is on basic concepts and algorithms and the mathematical ideas behind them. Major topics in linear programming include the simplex method, duality, sensitivity, and network problems; major topics in nonlinear programming include optimality conditions, several search algorithms for unconstrained problems, and a brief discussion of constrained problems. In-depth theoretical development and analysis are not included.

MATH 420 Linear Optimization Theory. 3 hours.

Prerequisite: MATH 237.

In-depth theoretical development and analysis of linear programming. Topics include formulation of linear programs, various simplex methods, duality, sensitivity analysis, transportation and networks, and various geometric concepts.

MATH 421 Nonlinear Optimization Theory. 3 hours.

Prerequisite: MATH 237.

In-depth theoretical development and analysis of nonlinear programming with emphasis on traditional constrained and unconstrained nonlinear programming methods and an introduction to modern search algorithms.

MATH 422 Mathematics for Finance. 3 hours.

Prerequisites: MATH 227 (or MATH 247) and MATH 355, or consent of the department.

Topics include the basic no-arbitrage principle, binomial model, time value of money, money market, risky assets such as stocks, portfolio management, forward and future contracts, and interest rates.

MATH 432 Graph Theory and Applications. 3 hours.

Prerequisite: MATH 237.

Survey of several of the main ideas of general theory with applications to network theory. Topics include oriented and nonoriented linear graphs, spanning trees, branching and connectivity, accessibility, planar graphs, networks and flows, matching, and applications. Usually offered in the fall semester.

MATH 441 Boundary Value Problems. 3 hours.

Prerequisite: MATH 238.

Methods of solving the classical second-order linear partial differential equations: Laplace's equation, the heat equation, and the wave equation, together with appropriate boundary or initial conditions. Usually offered in the fall semester.

MATH 442 Integral Transforms and Asymptotics. 3 hours.

Prerequisite: MATH 441.

Complex variable methods, integral transforms, asymptotic expansions, WKB method, Airy's equation, matched asymptotics, and boundary layers. Usually offered in the spring semester.

MATH 451 Mathematical Statistics with Applications I. 3 hours.

Prerequisites: MATH 237, or MATH 257 and MATH 355.

Introduction to mathematical statistics. Topics include bivariate and multivariate probability distributions, functions of random variables, sampling distributions and the central limit theorem, concepts and properties of point estimators, various methods of point estimation, interval estimation, tests of hypotheses, and Neyman-Pearson Lemma, with some applications. Usually offered in the fall semester.

MATH 452 Mathematical Statistics with Applications II. 3 hours.

Prerequisite: MATH 451.

Further applications of the Neyman-Pearson Lemma, Likelihood Ratio tests, Chi-square test for goodness of fit, estimation and test of hypotheses for linear statistical models, analysis of variance, analysis of enumerative data, and some topics in nonparametric statistics. Usually offered in the spring semester.

MATH 457 Stochastic Processes with Applications I. 3 hours.

Prerequisite: MATH 451 or equivalent.

Introduction to the fundamental concepts and applications of stochastic processes: Markov chains, continuous-time Markov chains, Poisson and renewal processes, and Brownian motion. Applications include queueing theory, communication networks, and finance.

MATH 460 Introduction to Differential Geometry. 3 hours.

Prerequisite: MATH 486, or MATH 382 and permission of the department.

Introduction to basic classical notions in differential geometry: curvature, torsion, geodesic curves, geodesic parallelism, differential manifold, tangent space, vector field, Lie derivative, Lie algebra, Lie group, exponential map, and representation of a Lie group. Usually offered in the spring semester.

MATH 465 Introduction to General Topology. 3 hours.

Prerequisite: MATH 486.

Basic notions in topology that can be used in other disciplines in mathematics. Topics include topological spaces, open sets, closed sets, basis for a topology, continuous functions, separation axioms, compactness, connectedness, product spaces, quotient spaces, and metric spaces. Usually offered in the fall semester.

MATH 466 Introduction to Algebraic Topology. 3 hours.

Prerequisites: MATH 465 and MATH 470.

Homotopy, fundamental groups, covering spaces, covering maps, and basic homology theory, including the Eilenberg Steenrod axioms. Usually offered in the spring semester.

MATH 467 Advanced Geometry. 3 hours.

Prerequisite: MATH 405 or permission of the instructor.

This is a second course in axiomatic geometry. Topics include Euclidean and non-Euclidean geometry, studied from an analytic point of view and from the point of view of transformation geometry. Some topics in projective geometry may also be treated. Usually offered in the spring semester.

MATH 470 Principles of Modern Algebra I. 3 hours.

Prerequisite: MATH 237 or MATH 257.

A first course in abstract algebra. Topics include groups, permutation groups, Cayley's theorem, finite abelian groups, isomorphism theorems, rings, polynomial rings, ideals, integral domains, and unique factorization domains. Usually offered in the fall semester.

MATH 471 Principles of Modern Algebra II. 3 hours.

Prerequisite: MATH 470.

Introduction to the basic principles of Galois Theory. Topics include rings, polynomial rings, fields, algebraic extensions, normal extensions, and the fundamental theorem of Galois Theory. Usually offered in the spring semester.

MATH 474 Cryptography. 3 hours.

Prerequisites: MATH 307, MATH 470, or permission of the department.

Introduction to the rapidly growing area of cryptography, an application of algebra, especially number theory. Usually offered in the fall semester.

MATH 485 Introduction to Complex Variables. 3 hours.

Prerequisite: MATH 227 or MATH 247.

Some basic notions in complex analysis. Topics include analytic functions, complex integration, infinite series, contour integration, and conformal mappings. Usually offered in the spring semester.

MATH 486 Introduction to Real Analysis I (previously MATH 380). 3 hours.

Prerequisite: MATH 237.

Rigorous development of the calculus of real variables. Topics include topology of the real line, sequences, limits, continuity, and differentiation. Usually offered in the fall semester.

MATH 487 Introduction to Real Analysis II (previously MATH 481). 3 hours.

Prerequisite: MATH 486.

Riemann integration, introduction to Riemann-Stieltjes integration, series of constants and convergence tests, sequences and series of functions, uniform convergence, power series, Taylor series, and the Weierstrass Approximation Theorem. Usually offered in the spring semester.

MATH 495 Seminar/Directed Reading. 1 to 3 hours.

Offered as needed.

MATH 499 Undergraduate Research. 1 to 3 hours.

Offered as needed.

MECHANICAL ENGINEERING (ME)

Professor Robert P. Taylor

Department Head

Office: 290 Hardaway Hall

ME 203 Engineering Economics. (3-0) 3 hours.

Prerequisite: MATH 100.

Annual cost, present worth, rate of return, and benefit-cost methods of determining prospective differences between or among design alternatives. Fixed and variable costs; retirement and replacement problems.

ME 215 Thermodynamics I. (3-0) 3 hours.

Prerequisite: MATH 126.

Properties of matter; processes in fluids; zeroth; first and second laws; irreversibility.

ME 233 3D AutoCAD for Engineers (also DR 233). (2-0) 3 hours.

Prerequisite: DR 125 or DR 133.

Communicating graphically with solid models. Use of AutoCAD software to create 3D wireframe, surface, and solid models. Models may be then dimensioned, sectioned, or rendered.

ME 305 Thermodynamics II. (3-0) 3 hours.

Prerequisite: ME 215 and Math 227.

Thermodynamic cycle analysis; Maxwell relations and development of thermodynamic properties; and thermodynamics of non-reacting and reacting mixtures and chemical equilibrium.

ME 308 Propulsion Systems. (3-0) 3 hours.

Prerequisite: ME 305.

Basic propulsion dynamics, thermodynamics of fluid flow, combustion kinetics, air-breathing engines, rockets, design criteria, performance, and advanced propulsion systems.

ME 309 Heat Transfer. (3-0) 3 hours.

Prerequisite: ME 215 and MATH 238 and AEM 311.

Steady and unsteady conduction, convection, and radiation heat transfer.

ME 313 Theory and Design of Compressible Flow Systems. (3-0) 3 hours.

Prerequisites: ME 215 and AEM 311.

Fundamentals of one-dimensional compressible flow including nozzles, friction and heating effects, shock waves, and expansion waves. Application of the basic theory in a design project.

ME 349 Engineering Analysis. (3-0) 3 hours.

Prerequisites: GES 132 and MATH 238.

Elements of statistics, matrix algebra, numerical analysis, and partial

differential equations applied to engineering problems; includes extensive computer applications.

ME 350 Static Machine Components. (3-0) 3 hours.

Prerequisites: AEM 250, AEM 251, and DR 133 or DR 125.

The analysis of stresses of machine elements and the topics of fatigue strength, wear, and failure criteria. Also includes the design of fasteners covering both bolted and welded joints.

ME 360 Control and Instrumentation Components. (2-3) 3 hours.

Prerequisites: ECE 320 (or ECE 225) and AEM 250.

Introduction to selection and use of electrical, pneumatic, and other components of mechanical system instrumentation and control. Specific components include modern electrical measurement devices, signal conditioning, force and torque measurement, proximity sensors, AC and DC motors, etc. Writing proficiency is required for a passing grade in this course.

ME 364 Vehicle Dynamics. (3-0). 3 hours.

Prerequisites: AEM 264

Dynamics of four-wheeled vehicles, including acceleration and braking performance, road loads, ride comfort, steady-state cornering, suspensions, steering systems, and rollover. Vehicle dynamics system modeling programs are introduced and used for detailed investigations of the effect of system design parameters on performance.

ME 372 Dynamic Systems (also AEM 372). (3-0) 3 hours.

Prerequisites: MATH 238, AEM 264, ECE 320 (or ECE 225), and ME 349. An introduction to the modeling, analysis, and control of dynamic systems. The course takes the student from initial modeling through analysis of the system response and finally into the control of the system. Specific systems include mechanical devices, electrical circuits, and electromechanical systems.

ME 377 Noise Control. (3-0) 3 hours.

Prerequisites: MATH 238, PH 106, and junior or senior standing in the College of Engineering.

Physical properties of noise; hearing and noise criteria measurement techniques; and noise-control fundamentals applied to practical problems.

ME 383 Modern Manufacturing Practices. (3-0) 3 hours.

Prerequisite: AEM 250, DR 133, and MTE 271.

A survey of classical and modern manufacturing processes. Emphasis is on both fundamentals and applications of various manufacturing processes. Specific components include geometric and service attributes of manufactured products, metal casting processes, forming processes, machining processes, and joining processes.

ME 406 Thermal Power Systems. (3-0) 3 hours.

Prerequisite: ME 305.

Study of thermal systems emphasizing large power generation systems. Topics include Rankine and gas turbine cycles, fossil fuels combustion, boiler characteristics, cogeneration, combined cycle plants, environmental effects of power generation, and alternative energy concepts.

ME 407 Heating, Ventilating, and Air-Conditioning. (3-0) 3 hours.

Prerequisite: ME 309.

Fundamentals and practice associated with heating, ventilating, and air conditioning; study of heat and moisture flow in structures, energy consumption, human comfort and health; and design of practical systems.

ME 409 Numerical Heat Transfer and Fluid Flow. (3-0) 3 hours.

Prerequisites: AEM 311, ME 309, and ME 349; or CHE 253 and CHE 306.

Theory and practice of computational heat transfer; finite volume method for simulating fluid flow and heat transfer; computer graphics as a means of interpreting results of computation; and design applications of numerical heat transfer.

ME 411 Finite-Element Analysis in Heat Transfer. (3-0) 3 hours.

Prerequisites: ME 309, AEM 311, and ME 349; or MTE 353.

The course focuses on the utilization of existing commercially available finite-element computer codes for analysis of conduction and convective heat transfer processes. Computer codes currently available on the College of Engineering network are used.

ME 415 Energy Systems Design. (2-0) 2 hours.

Prerequisites: ME 305 and ME 309.

Techniques of analysis and design of energy systems, including piping networks, heat exchangers, and prime movers. Emphasis is on modeling and computational solutions.

ME 416 Energy Conservation and Management. (3-0) 3 hours.

Prerequisites: ME 309; ME 305; and ECE 320 or ECE 225.

Analysis of energy systems, including fossil fuels, steam, cogeneration, waste heat recovery, heating, ventilation, air-conditioning, control, and energy-management systems. Topics include conservation in electrical load, lighting, building envelope, and insulation; alternative energy sources; economic analysis; energy auditing; and fuel sources and supplies.

ME 417 Heating, Ventilating, and Air-Conditioning System Design. (2-3) 3 hours.

Prerequisite: ME 407 or ME 416.

Design of conventional and unconventional environmental systems: air-conditioning, heating, refrigeration, control systems, and thermal storage.

ME 418 Combustion Engines. (2-3) 3 hours.

Prerequisite: ME 305.

Theory, design, and performance of combustion engines; fuels, oxidants, and propellants; and combustion, dissociation, ionization, and engine emissions.

ME 421 Reliability, Maintainability, and Total Productive Maintenance. (3-0) 3 hours.

Prerequisite: GES 255 or GES 500.

Measures and methods of reliability engineering, maintainability engineering, and total productive maintenance, as used in the system design process.

ME 430 Artificial Intelligence in Manufacturing. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or consent of instructor.

The course covers the basic concepts of fuzzy set theory, fuzzy logic, and approximate reasoning. Relationships among fuzzy set theory, probability theory, and possibility theory are discussed. Applications of fuzzy set theory in manufacturing systems are outlined.

ME 422 Quality Engineering. (3-0) 3 hours.

Prerequisite: GES 257 or GES 400 or 500.

Introduction to quality planning approaches, including quality function deployment and robust product and process design.

ME 425 Statistical Quality Control. (3-0) 3 hours.

Prerequisite: GES 255 or GES 500.

Use of statistical tools and techniques in the control of quality of manufactured products: Shewhart control charts; advanced control charts; capability analysis; single, double, and multiple sampling inspection plans.

ME 426 Design and Analysis of Experiments. (3-0) 3 hours.

Prerequisite: GES 257 or GES 400 or GES 500.

Design of experiments and the application of analysis of variance, regression analysis, and related statistical methods.

ME 441 Introduction to Biomedical Engineering. (3-0) 3 hours.

Prerequisites: MATH 238, PH 106, and AEM 201.

Introduction to the relationship between engineering and medicine. Modeling musculoskeletal and cardiovascular systems. Review of medical devices such as non-invasive imaging devices, biopotential electrodes and amplifiers, and assistive technology.

ME 450 Dynamic Machine Components. (3-0) 3 hours.

Prerequisites: AEM 264 and ME 350.

This course covers the selection and application of machine elements in dynamic systems. Specific components covered include transmission elements (gears and pulleys), mechanisms (linkages and cams), shafting, bearing systems, and prime movers.

ME 460 Thermal Systems Instrumentation. (2-3) 3 hours.

Prerequisite: ME 360 and ME 309.

Selection and use of pressure, temperature, fluid flow, and heat transfer instrumentation. Hands-on experiences with fluid flow, heat transfer, refrigeration, and heat engine equipment. Statistical design of experiments.

Writing proficiency is required for a passing grade in this course.

ME 465 Introduction to Automated Manufacturing Systems. (2-3) 3 hours.

Prerequisite: ME 372.

Fundamental concepts of design, analysis, and simulation associated with industrial robotic systems. Introduction to and application of interactive computer analysis and computer graphics techniques. Topics include robot kinematics and dynamics, the inverse kinematics problem, interactive computer graphics and numerical integration techniques, and robot motion planning and trajectory specification.

ME 466 Manufacturing Systems Design. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or Instructor Consent.

Investigation of design issues and approaches for the analysis and design of manufacturing systems.

ME 469 Production Planning and Control. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or Instructor Consent.

Forecasting and estimation; aggregate planning; charts and network models; resource allocation; inventory control; sequencing and scheduling; dispatching; flow control; bills of materials and requirements planning.

ME 470 Mechanical Vibrations (also AEM 470). (3-0) 3 hours.

Prerequisites: ME 372 and AEM 250.

Free and forced vibrations, both undamped and damped; and systems with many degrees of freedom formulated and analyzed by matrix methods. Experimental techniques of vibration measurement are introduced.

ME 471 Fundamentals of Acoustics. (3-0) 3 hours.

Prerequisites: MATH 238, PH 106, and either ECE 320 or ECE 225.

Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.

ME 475 Control Systems Analysis. (3-0) 3 hours.

Prerequisites: ME 349 and ME 372.

Classical and modern feedback-control system analysis; and block diagrams, state variables, stability, root locus, and computerized analysis. Includes an introduction to modern control techniques.

ME 476 Machine Servo Systems. (3-0) 3 hours.

Prerequisite: ME 372 or permission of the instructor.

Corequisite: ME 475 or equivalent.

Hardware and software of machine servo systems with emphasis on the selection of components and integration into working systems. Hands-on experience with servo actuator systems in the laboratories.

ME 483 Computer-Aided Manufacturing. (3-0) 3 hours.

Prerequisites: DR 125 or DR 133, and ME 383.

Introduction and application of several technologies used in computer-aided design/manufacturing; computer-aided design, solid modeling, rapid prototyping, geometric dimensioning and tolerancing, machining process optimization, NC programming CNC machines, software-based product, and process design in machining.

ME 484 Introduction to the Finite-Element Method. (3-0) 3 hours.

Prerequisite: ME 350, CE 331, AEM 341, or graduate student standing.

Use of a commercial finite-element analysis program to perform linear static analyses in the presence of applied loads and thermal conditions. Emphasis is on applications using finite-element analysis programs as engineering tools.

ME 485 Introduction to Computer-Aided Design (also AEM 485). (3-0) 3 hours.

Prerequisites: GES 132, ME 349, ME 372, and AEM 250.

Elements of computer-aided design including finite-element stress analysis, dynamic system simulation, and numerical optimization. Interactive computer programs are used to design mechanical systems.

ME 489 Mechanical Engineering Design I. (2-3) 3 hours.

Prerequisites: Senior standing in the College of Engineering, ME 309 and ME 350.

Introduction to concepts and techniques of engineering design, with supporting mathematical material. Guest lecturers present professional aspects of engineering. The Capstone Design Project is begun and carried on through ME 490 (ME 489 and ME 490 are taken in consecutive semesters).

ME 490 Mechanical Engineering Design II. (0-6) 3 hours.

Prerequisite: ME 489

In this semester-long internship experience, three-student teams serve as consultants to an industrial client. Emphasis is on conducting a professional design study and preparing written and oral presentations of the project.

ME 491 Special Problems (Area). Variable hours.

This is a special topics lecture class or an assigned problem class. Credit is based on the amount of work undertaken.

ME 497 Mechanical Engineering Project. (0-9) 1 to 3 hours.

An individual analytical, experimental, or design project. Research on an assigned problem culminates in a required report.

Advanced Undergraduate/Entry-level Graduate Courses**ME 500 Intermediate Fluid Mechanics** (also AEM 500) (3-0) 3 hours.

Prerequisites: MATH 238, ME 215, and AEM 311.

Development and use of the integral and differential forms of the equations of continuity, momentum, and energy with ideal fluids and compressible fluids. Introduction to several advanced topics in fluid mechanics, including potential flow, boundary layer flow, and compressible flow.

ME 501 Mechanical Engineering Analysis I. (3-0) 3 hours.

Prerequisites: ME 349, ME 372, and ME 309.

Analysis of mechanical engineering systems, including the presentation and application of advanced analytical techniques for continuous and discrete dynamic systems.

ME 502 Transport Phenomena. (3-0) 3 hours.

Prerequisites: ME 215 and AEM 311.

Steady and transient mass, energy, and momentum transport in ideal and real substances.

ME 509 Intermediate Heat Transfer. (3-0) 3 hours.

Prerequisites: ME 309 and AEM 311.

Intermediate treatment of conduction, convection, and radiation heat transfer.

ME 518 Principles of Combustion I. (3-0) 3 hours.

Combustion thermodynamics, flame temperature and equilibrium compositions, ignition processes, detonation and deflagration, diffusion flames, similitude, and assigned papers.

ME 522 Reliability, Maintainability, and Total Productive Maintenance. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or instructor consent.

Not open to students with credit for ME 421. Measures and methods of reliability engineering, maintainability engineering, and total productive maintenance as used in the systems design process.

ME 525 Statistical Quality Control. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or instructor consent.

Not open to students with credit for ME 425. Use of statistical tools and techniques in the control of quality of manufactured products. Shewhart control charts; advanced control charts; capability analysis; single, double, and multiple sampling inspection plans.

ME 526 Design and Analysis of Experiments (also GES 526). (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or Instructor Consent.

Not open to students with credit for ME 426. Design of experiments and the application of analysis of variance, regression analysis, and related statistical methods.

ME 530 Artificial Intelligence in Manufacturing. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or instructor consent.

The course covers the basic concepts of fuzzy set theory, fuzzy logic, and approximate reasoning. Relationships among fuzzy set theory, probability theory, and possibility theory are discussed. Applications of fuzzy set theory in manufacturing systems are outlined.

ME 550 Advanced Mechanical Design. 3 hours.

Constitutive relationships, Castigliano's method, fatigue, stochastic relationships, time-dependent properties, and other advanced topics.

ME 553 Mechanical Reliability. (3-0) 3 hours.

Prerequisites: ME 350 and ME 450.

Probabilistic methodology for assessing the reliability of mechanical systems at the design stage.

ME 561 Techniques in Experimental Research. (2-3) 3 hours.

Prerequisite: ME 360.

Design of experimental research systems and study of instrumentation, transducers, and related electronic components. Data acquisition, error analysis, experiment planning, and proposal writing are included.

ME 562 Intermediate Dynamics (also AEM 562). 3 hours.

Modeling and analysis of dynamic systems with emphasis on Newtonian and Lagrangian techniques; Hamilton's principles; and application to three-dimensional motion of rigid bodies.

ME 564 Systems Simulation. (3-3) 3 hours.

Prerequisites: GES 255 or ME 349 or instructor consent.

Not open to students with credit for ME 464. Simulation methodology, emphasizing discrete, computer-simulation modeling of production and manufacturing systems.

ME 566 Manufacturing Systems Design. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or instructor consent.

Not open to students with credit for ME 466. Investigation of design issues and approaches for the analysis and design of manufacturing systems.

ME 569 Production Planning and Control. (3-0) 3 hours.

Prerequisites: GES 255 or ME 349 or instructor consent.

Not open to students with credit for ME 469. Forecasting and estimation; aggregate planning; charts and network models; resource allocation; inventory control; sequencing and scheduling; dispatching; flow control; bills of materials and requirements planning.

ME 570 Mechanical Vibration (also AEM 570). 3 hours.

Formulation and solution of free and forced vibration problems for undamped and damped systems with single and multiple degrees of freedom. Both modal and frequency response techniques are discussed. An introduction to continuous systems is included.

ME 571 Fundamentals of Acoustics. (3-0) 3 hours.

Prerequisites: MATH 238, PH 106, and either ECE 320 or ECE 225.

Fundamental physical principles underlying wave propagation and resonance in mechanical systems. Introduces applications and provides experience in acoustic and audio measurements and the associated instrumentation.

ME 577 Advanced Linear Control (also AEM/ECE 577). (3-0) 3 hours

Prerequisite: ME 475.

Modern techniques for the analysis and design of linear control systems. Matrix formulation; multivariable control systems; state-variable concepts; discrete-time systems; optimization; and statistical design methods.

ME 578 Nonlinear Control Systems (also AEM 578). (3-0) 3 hours.

Classical and modern methods for analysis and design of nonlinear automatic control systems. State variables, phase plane, describing functions, relay control, and optimal and adaptive control systems are covered.

ME 583 Computer-Aided Manufacturing. (3-0) 3 hours.

Prerequisites: DR 125 or DR 133, and ME 383.

Introduction and application of several technologies used in computer-aided design/manufacturing; computer-aided design, solid modeling, rapid prototyping, geometric dimensioning and tolerancing, machining process optimization, NC programming CNC machines, software-based product, and process design in machining.

METALLURGICAL AND MATERIALS ENGINEERING (MTE)

Professor Viola L. Acoff
Department Head

Office: 116 Houser Hall

MTE 101 Introduction to Materials. (1-0) 1 hour.

An introduction to the materials science and engineering profession and history. The course includes selected topics useful in the study of metallurgical and materials engineering.

MTE 155 Energy, Environment & Materials. (4-0) 4 hours.

This course will provide the science background today's citizens need to understand the problems and limitations society faces with respect to energy resources and the environment. Science concepts will be introduced as needed and within the context of energy, the environment or materials. Students will be encouraged to critically analyze timely examples of energy usage or environmental problems from the news media. Students will gain an understanding of how engineering and technology, especially the development of new materials, can translate science to practical and beneficial outcomes.

MTE 252 Metallurgical Process Calculations. (3-0) 3 hours.

Prerequisites: CH 102, GES 132, and MATH 125.

Mathematical quantitative relations of chemical reactions and physicochemical processes; principles of overall mass and energy balances and the application of these principles to metallurgical systems.

MTE 271 Engineering Materials: Structure and Properties. (3-0)
3 hours.

Prerequisite: CH 101.

Basic structure of ceramics, alloys, composites, metals, and polymers. Relationships between the structure of materials and their mechanical, electrical, magnetic, thermal, and chemical properties.

MTE 275 Engineering Materials I Laboratory. (1-3) 2 hours.

Corequisite: MTE 271.

Materials testing and evaluation, laboratory procedures and techniques, metallography, heat treatment, phase diagrams, hardenability, and mechanical testing.

MTE 353 Transport Phenomena in Metallurgy. (3-0) 3 hours.

Prerequisites: GES 132 and MTE 252.

Corequisite: MATH 238.

Definition of viscosity, elements of laminar and turbulent flow, and overall mechanical energy balance. Thermal conductivity, steady and transient conduction problems, forced and natural convection, heat transfer, and radiative heat transfer. Definition of binary diffusivity, convection mass transfer, and mass transfer coefficient. The application of the principles covered in the design of specific metallurgical systems.

MTE 362 Thermodynamics of Materials. (3-0) 3 hours.

Prerequisites: MTE 252 or CHE 254.

Thermochemistry applied to typical metallurgical reactions, graphical representations of equilibria, binary and ternary phase diagrams, heterogeneous equilibrium, behavior of solutions, standard states, and electrochemical thermodynamics.

MTE 373 Physical Metallurgy. (3-3) 4 hours.

Prerequisite: MTE 271 and MTE 362, or permission of instructor.

Introduction to the principles of physical metallurgy. Topics include crystal structure, deformation, dislocations, point defects, diffusion, interfaces, nucleation theory, transformations, and growth.

MTE 380 Synthesis, Processing, and Manufacturing of Materials. (3-0)
3 hours.

Prerequisite: MTE 271.

Detailed study of principal alloy, ceramic, and polymer systems. Evaluation of the effects of processing on selected physical and mechanical material properties. Overview of design fundamentals and examination of selected material/design case studies for manufacturing.

MTE 412 Polymer Materials Engineering. (3-0) 3 hours.

Prerequisite: CH 102.

Introduction to the manufacture, processing, and applications of organic polymeric materials. The chemistry of polymer manufacture, the molecular structure of polymers, and the structure-property relationships for thermoplastic and thermosetting polymers are covered.

MTE 416 Fundamentals of Foundry Processing. (2-3) 3 hours.

Prerequisites: MTE 353 and MTE 362, or permission of instructor.

Metal-casting principles including pattern design, molding materials, molding methods, sand testing, solidification, risering and gating of castings, casting design, and casting defects.

MTE 417 Simulation of Casting Processes. (3-0) 3 hours.

Prerequisite: MTE 416 or Permission of Instructor.

Theory and hands-on application of casting process design and casting simulation, including the prediction of microstructure, defects, and distortion.

MTE 439 Metallurgy of Welding. (3-0) 3 hours.

Prerequisite: MTE 380 or permission of the instructor.

Thermal, chemical, and mechanical aspects of welding using fusion welding processes. The metallurgical aspects of welding, including microstructure and properties of the weld, are also covered.

MTE 441 Chemical Metallurgy. (3-0) 3 hours.

Prerequisites: MTE 353 and MTE 362.

Application of thermodynamics, fluid flow, and heat and mass transfer to the design and operation of chemical metallurgical processes; roasting, agglomerating, oxidation and reduction reactions, smelting, converting, and refining.

MTE 443 Materials Engineering Design I. (1-3) 2 hours.

Prerequisite: MTE 380

Corequisite: MTE 441 and MTE 481.

Design of devices, components, processes or systems using physical, chemical, mechanical, economic, and ethical principles. Project planning and cost analysis. Application of computer-based design tools. Analysis of problems, design and development of solutions. Concepts of shared responsibility, teamwork, and communication. Oral and written presentations.

MTE 445 Materials Engineering Design II. (2-3) 3 hours.

Prerequisite: MTE 443.

Corequisite: MTE 455 and MTE 416

Implementation of the research plan developed in MTE 443. Interim and final design reviews with oral and written reports.

MTE 449 Powder Metallurgy. (3-0) 3 hours.

Prerequisites: MTE 373 and MTE 380.

The course will cover the topic of powder metallurgy, describing the various types of powder processing and how these affect properties of the components made. Current issues in the subject area, from high production to nanomaterials, will be discussed.

MTE 450 Plasma Processing of Thin Films. (3-0) 3 hours.

Prerequisites: PH 106, and CH 102 or permission of instructor.

This course will cover fundamental technology involved in thin-film processing. Plasma deposition and etch technology will be discussed. The basics of plasma processing equipment will be detailed with special emphasis on sputtering tools. The vast range of thin-film applications will be explored in depth with detailed examples of magnetics, semiconductor, optical, and medical applications.

MTE 455 Mechanical Behavior of Materials (also AEM 455). (3-0)
3 hours.

Prerequisite: AEM 201 or permission of instructor.

Flow and fracture of solids; uniaxial stress-strain as a reference behavior; theories of terminal stability under impact; monotonic, sustained (creep), and repeated (fatigue) loadings of solids under various states of stress.

MTE 476 Physical Ceramics. (3-0) 3 hours.

Prerequisite: MTE 353, MTE 362 and MTE 373 or permission of instructor.

Topics include ceramic raw materials, refractories, thermal properties, mechanical properties, processing, advanced ceramics, etc.

MTE 481 Analytical Methods for Materials. (2-3) 3 hours.

Prerequisite: MTE 373 or permission of the instructor.

Crystallography, physics of X-rays, diffraction by crystalline materials, applications of X-ray, electron and neutron diffraction, and spectrometric analysis of materials.

MTE 487 Corrosion Science and Engineering. (3-0) 3 hours.

Prerequisites: MTE 271; CH 102 or permission of the instructor.

The course is aimed at investigating the underlying fundamental causes of corrosion problems and failures. Emphasis is placed on the electrochemical reactions occurring and the tools and knowledge necessary for predicting corrosion, measuring corrosion rates, and combining these with prevention and materials selection.

MTE 491 and MTE 492 Special Problems (Area). 1 to 3 hours.

An assigned problem is explored individually. Credit is based on the amount of work undertaken.

MTE 495 and MTE 496 Seminar/Senior Thesis. (1-0) 1 hour each semester.

Prerequisite: Senior standing in the College of Engineering.

Phases of metallurgical engineering not included in other courses are reviewed. Specialized topics are presented by visiting lecturers. Abstracts and projects are prepared and presented by students.

Advanced Undergraduate/Entry-level Graduate Courses**MTE 519 Principles of Casting and Solidification Processing.** (3-0)

3 hours.

Prerequisite: MTE 416 or permission of instructor.

MTE 520 Simulation of Casting Processes. (3-0) 3 hours.

Prerequisite: MTE 417

MTE 539 Metallurgy of Welding. (3-0) 3 hours.

Prerequisite: MTE 380 or permission of the instructor.

Thermal, chemical, and mechanical aspects of welding using fusion welding processes. The metallurgical aspects of welding including microstructure and properties of the weld are also covered. Also included are various topics on recent trends in welding research.

MTE 542 Magnetic Recording Media (also PH 585). (3-0) 3 hours.

Prerequisite: MTE 271

Basic ferromagnetism; preparation and properties of magnetic recording materials; magnetic particles; thin magnetic films; soft and hard film media; multilayered magnetoresistive media; magneto-optical disk media.

MTE 546 Macroscopic Transport in Materials Processing. (3-0)

3 hours.

Prerequisites: MTE 353 or MATH 238

MTE 549 Powder Metallurgy. (3-0) 3 hours.

Prerequisites: MTE 373 and MTE 380.

The course will cover the topic of powder metallurgy, describing the various types of powder processing and how these affect properties of the components made. Current issues in the subject area, from high production to nanomaterials, will be discussed.

MTE 550 Plasma Processing of Thin Films. (3-0) 3 hours.

Prerequisites: PH 106, and CH 102 or permission of instructor.

This course will cover fundamental technology involved in thin-film processing. Plasma deposition and etch technology will be discussed. The basics of plasma processing equipment will be detailed with special emphasis on sputtering tools. The vast range of thin-film applications will be explored in depth with detailed examples of magnetics, semiconductor, optical, and medical applications.

MTE 556 Advanced Mechanical Behavior of Materials I: Strengthening Methods in Solids. (3-0) 3 hours.

Prerequisite: MTE 455 or permission of instructor.

Topics include elementary elasticity, plasticity, and dislocation theory; strengthening by dislocation substructure, and solid solution strengthening; precipitation and dispersion strengthening; fiber reinforcement; martensitic strengthening; grain size strengthening; order hardening; dual phase microstructures, etc.

MTE 562 Metallurgical Thermodynamics. (3-0) 3 hours.

Prerequisite: MTE 362 or permission of the instructor.

MTE 574 Phase Transformation in Solids. (3-0) 3 hours.

Prerequisites: MTE 373 and MTE 562.

MTE 579 Advanced Physical Metallurgy. (3-0) 3 hours.

Prerequisite: MTE 373.

MTE 583 Advanced Structure of Metals. (3-0) 3 hours.

Prerequisite: Permission of the instructor.

MTE 585 Materials at Elevated Temperatures. (3-0) 3 hours.

Prerequisite: Permission of the instructor.

Influence of temperature on behavior and properties of materials.

MTE 587 Corrosion Science and Engineering. (3-0) 3 hours.

Prerequisites: MTE 271; and CH 102 or Permission of the Instructor.

MTE 680 Advanced Phase Diagrams. (3-0) 3 hours.

Prerequisite: MTE 362 or permission of the instructor.

MTE 685 Materials at Elevated Temperatures. (3-0) 3 hours.

Prerequisite: Permission of the instructor.

MODERN GREEK (MDGR)

Office: 200-D B.B. Comer Hall

MDGR 101 Elementary Modern Greek I. 3 hours.

Contemporary modern Greek—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native (or superior) speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

MDGR 102 Elementary Modern Greek II. 3 hours.

Prerequisite: MDGR 101 or consent of CLC director.

Contemporary modern Greek—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native (or superior) speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

MDGR 201 Intermediate Modern Greek I. 3 hours.

Prerequisite: MDGR 102 or consent of CLC director.

Continuation of modern Greek on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

MDGR 202 Intermediate Modern Greek II. 3 hours.

Prerequisite: MDGR 201 or consent of CLC director.

Continuation of MDGR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

MULTIPLE ABILITIES PROGRAM (MAP)

Professor Madeleine Gregg

Office: 215C Graves Hall

Program Coordinator

MAP 301 Professionalism. 3 hours.

Prerequisite: Admission to the Multiple Abilities Program.

This course is designed as a developmental sequence of integrated themes covering historical foundations of education, educational finance, legal and ethical issues, contemporary issues, and fundamental technology concepts and integrated with MAP 302, MAP 303, and MAP 405.

MAP 311 The Learner. 3 hours.

Prerequisite: Admission to the Multiple Abilities Program.

Integrated with MAP 312, MAP 313, MAP 414, MAP 415, this course is a developmental sequence covering concepts of human development, language development, literacy acquisition, and multiculturalism. A central theme is the development of skill in observing children and understanding their behavior from a developmental perspective. Group projects, independent study, observation, assigned readings, and field activities are part of the course.

MAP 321 Communication/Collaboration. 3 hours.

Prerequisite: Admission to the Multiple Abilities Program.

Integrated with MAP 322, MAP 323, MAP 424, MAP 425, this course introduces concepts of cooperative partnerships in school and between home and school as a vehicle for quality educational experiences. Topics include social functions of speech communication; verbal and nonverbal communication; and skills essential for professional communication.

MAP 331 Facilitating Learning. 3 hours.

Prerequisite: Admission to the Multiple Abilities Program.

By observing and participating in classrooms, students acquire understanding

of pedagogies appropriate for young children. This course is closely related to other MAP "Facilitating Learning" title courses. This course introduces methods of instruction in math, science, literacy, art, and social studies.

MAP 341 Field Experience/Practicum. 4 hours.

Prerequisite: Admission to the Multiple Abilities Program.

In this practicum, students complete observation-based research activities in a variety of general and special education classrooms. They have a variety of practicum experiences with emerging readers.

For each of the following MAP courses, prerequisites are (a) successful completion of the previous semester's MAP coursework and (b) admission to the teacher education program.

MAP 302 Professionalism. 3 hours.

This course continues the developmental sequence of integrated themes from MAP 301. The underpinnings of various school reform efforts and their potential effects on classroom practices are a central focus of the course.

MAP 312 The Learner. 3 hours.

Integrated with MAP 311, MAP 313, MAP 414, MAP 415, this course is designed as an integrated, developmental sequence covering human development, language development, literacy acquisition, and multiculturalism, as well as concepts of assessment of the learner. The course includes group projects, independent study, observation, assigned readings, and field activities.

MAP 322 Communication/Collaboration. 3 hours.

Integrated with MAP 321, MAP 424, MAP 425, and other MAP courses, this course further explores the concept of cooperative partnerships to ensure quality educational experiences for children whose needs vary widely (including those with learning and/or behavior disabilities). Skills essential for professional communication, especially those needed for effective collaboration, are a central theme of the course.

MAP 332 Facilitating Learning. 3 hours.

Using observation and study, students in this course learn about effective instruction of children with diverse needs, including those with learning and/or behavior disabilities. The course covers teaching young children science, math, music, literacy (reading, writing, and language arts), and physical education. A central theme of this course (which is integrated with MAP 331, MAP 333, MAP 434, and MAP 435) is use of instructional tactics and strategies to ensure meaningful learning and empowerment of children.

MAP 342 Field Experience/Practicum. 3 hours.

This is the second MAP field experience, and it, too, is integrated with the MAP coursework that precedes and follows it. During the semester month-long practicum, students serve as apprentices in a mentoring teacher's classroom, engaging in co-planning and co-teaching lessons. They have a variety of practicum experiences with elementary students.

MAP 403 Professionalism. 2 hours.

This course extends the developmental themes of MAP 302 and is integrated with other MAP courses. Developing a "self as professional" perspective is a central theme of the course.

MAP 404 Professionalism. 3 hours.

This course extends developmental themes covered in previous "Professionalism" courses. Emphasis is on gathering and analyzing educational data and information in order to make classroom teaching more effective.

MAP 405 Professionalism. 3 hours.

This course extends developmental themes covered in previous "Professionalism" courses.

MAP 413 The Learner. 2 hours.

Integrated with MAP 311, MAP 312, MAP 414, MAP 415, and other courses in the MAP program, this course is an integrated, developmental sequence exploring child development during infancy and childhood, motivation theory, paradigms of educational psychology, and talent development.

MAP 414 The Learner. 3 hours.

The course is integrated with the rest of the MAP curriculum and teaches the theory and practice of the construction of tests for student assessment. Nonbiased assessment and placement of and intervention with culturally/socially/economically diverse students are emphasized.

MAP 415 The Learner. 3 hours.

Building on previous MAP courses, this course develops a sophisticated understanding of human development, human learning, language acquisition, and the social context of all of these. Vygotsky's social learning theories and their practical implications for the multiple abilities classroom are a key focus.

MAP 423 Communication/Collaboration. 1 hour.

Building on previous MAP courses, the course focuses on interpersonal skills needed to communicate effectively with parents through conferencing, notes/letters, and newsletters about curriculum topics, themes, classroom events, and children's work.

MAP 424 Communication/Collaboration. 3 hours.

Building on previous MAP courses, the course focuses on planning and conducting conferences to establish, communicate, and achieve the goals and essential characteristics of an educational program.

MAP 425 Communication/Collaboration. 3 hours.

Building on previous MAP courses, the course focuses on the use of social problem-solving skills: conflict resolution, anger diffusion, and crisis intervention.

MAP 433 Facilitating Learning. 1 hour.

By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 434, and MAP 435. It concentrates on the employment of community resources and on presentation skills.

MAP 434 Facilitating Learning. 2 hours.

By observing and participating in classrooms, students acquire skills in pedagogy appropriate for young children. This course is integrated with MAP 331, MAP 332, MAP 333, and MAP 435. It concentrates on the integration and inclusion of exceptional children and children from diverse backgrounds in various classroom settings: planning for individual needs, modifying objectives and adapting curriculum materials, and personalizing instruction.

MAP 435 Facilitating Learning. 2 hours.

This course extends concepts of learning, classroom management, behavior modification, and individual behavior management. Emphasis is on using effective programs and interventions with children of diverse abilities to facilitate social and emotional growth and encourage appropriate behavior.

MAP 443 Field Experience/Summer Enrichment Workshop (SEW) Practicum. 6 hours.

This course concentrates on learning strategies, thinking skills, and how to integrate them in one's teaching throughout the instructional program. It explores how distinguishing the cognitive from the affective components of thinking skills can help pupils of all abilities to learn responsibility for the decision-making process and help them express their thoughts.

MAP 444 Field Experience/Special Education Internship. 6 hours.

This course begins as an apprenticeship with a mentoring teacher in a special education classroom. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting classroom instruction for pupils with mild learning and behavior disabilities.

MAP 445 Field Experience/Regular Classroom Internship. 6 hours.

This course begins as an apprenticeship with a mentoring teacher in an elementary general education classroom setting. It evolves into a 12-week internship in which the student assumes major responsibility for managing and conducting the classroom instruction.

MUSIC ACADEMICS (MUS)

Office: 175 Moody Music Building

MUS 115 Theory I. 4 hours.

Prerequisite: Ability to read music.

Study of the foundations of musical materials through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the fall semester.

MUS 117 Theory II. 4 hours.

Prerequisite: MUS 115.

Study of the melodic and harmonic materials of the 18th and early 19th centuries through analysis, writing, sight-singing, dictation, and keyboard skills. Offered in the spring semester.

MUS 121 Introduction to Listening. 3 hours.

Credit earned in this course may not be applied to a major program in the School of Music. The course presupposes no musical training on the student's part. Emphasis is on what to listen for in music.

MUS 161 Oboe Reedmaking. 1 hour.

Corequisite: Studio oboe for credit.

Independent laboratory instruction in oboe reedmaking. Up to four semesters of MUS 161 may be counted toward the degree.

MUS 180 Introduction to Music Therapy. 2 hours.

Prerequisite or corequisite: MUS 115.

Study of music as a human behavior and of music's use with the handicapped and those suffering from behavioral disorders.

MUS 182 Observation and Orientation to Music Therapy. 2 hours.

Prerequisite: MUS 180.

Study of the functions of the music therapist with emphasis on the use of music in a therapeutic environment.

MUS 215 Theory III. 4 hours.

Prerequisite: MUS 117.

Study of musical materials and forms from the early to mid-19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the fall semester.

MUS 217 Theory IV. 4 hours.

Prerequisite: MUS 215.

Study of musical materials and forms from the mid- to late 19th century. Analysis, writing, sight-singing, dictation, and keyboard skills appropriate to the musical materials studied. Offered in the spring semester.

MUS 219 Composition I. 2 hours.

Prerequisites: MUS 117 and permission of the instructor.

Basic techniques of musical composition.

MUS 220 Composition II. 2 hours.

Prerequisites: MUS 219 and permission of the instructor.

A continuation of Composition I. Basic techniques of musical composition.

MUS 228 Functional Jazz Piano and Jazz Theory I. 1 hour.

Prerequisite: MUS 217 or permission of instructor.

Introduction to theoretic principles of jazz and application on the piano, including definition and applications of chords and scales, progressions, chord substitution principles. Offered in the fall semesters of even-numbered years.

MUS 229 Functional Jazz Piano and Jazz Theory II. 1 hour.

Prerequisite: MUS 228 or permission of instructor.

Continuation of MUS 228. Focus on modes, synthetic scales, altered extensions, and other extended techniques of the jazz idiom. Offered in the spring semesters of odd-numbered years.

MUS 230 Improvisation I. 1 hour.

Prerequisites: MUS 228 or permission of the instructor.

Theoretical and applied study of the tonal and rhythmic elements used in developing improvisational skills in jazz, rock, and pop media. Offered in the fall semesters of odd-numbered years.

MUS 231 Improvisation II. 1 hour.

Prerequisites: MUS 229 and MUS 230.

Continuation of MUS 230. Designed to develop advanced improvisational skills in the jazz idiom. Offered in the spring semesters of even-numbered years.

MUS 240 Piano Pedagogy. 2 hours.

Corequisite: MUA 371.

Study of teaching principles, methods, and materials; includes microteaching and observation. Offered in alternate spring semesters.

MUS 241 Organ Pedagogy. 2 hours.

Corequisite: MUA 372.

Presentation of the materials and methods for teaching beginners and students in the early grades of organ; includes practical teaching experience. Offered in the fall semester of odd-numbered years.

MUS 244 String Pedagogy. 2 hours.

Prerequisite: 4 hours of advanced string instruction.

Materials and methods for teaching string players in the early grades (both studio and class instruction). Offered according to demand.

MUS 250 Music in World Cultures. 3 hours.

Prerequisite: MUS 115.

Study of music in non-Western traditions (Africa, India, Japan, Indonesia, etc.).

MUS 251 Music History I. 3 hours.

Prerequisites: MUS 117 and MUS 250.

History of music from the ancient Greeks through the end of the 17th century, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the fall semester.

MUS 252 Music History II. 3 hours.

Prerequisite: MUS 251.

History of music in the 18th and early 19th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the spring semester.

MUS 254 Diction for Singers I. 3 hours.

Corequisite: Sophomore or higher standing.

Introduction to the International Phonetic Alphabet; study and practice of Italian and English diction. Offered in alternate years.

MUS 255 Diction for Singers II. 3 hours.

Prerequisite: MUS 254.

Study and practice of German and French diction. Offered in alternate years.

MUS 280 Repertoire and Skill Proficiency in Music. 2 hours.

Prerequisite: MUA 220 or demonstrated functional guitar skills.

The course emphasizes command of the wealth of folk, popular, and recreational music of the main segments of American culture, as well as polished singing and accompanying skills needed for competent performance.

MUS 281 Music Recreation Techniques. 2 hours.

Repeatable two times.

MUS 282 Music Therapy Practicum. 1 hour.

Prerequisite: MUA 220.

MUS 300 Introduction to Music Theory Research. 2 hours.

Prerequisite: Permission of the instructor.

An introduction to scholarly research for students who plan academic careers as musical theorists.

MUS 303 Sixteenth-Century Counterpoint. 3 hours.

Prerequisite: MUS 117.

Practical study, through analysis and composition, of vocal polyphony as developed in the 16th century. Offered in the fall semester.

MUS 304 Eighteenth-Century Counterpoint. 3 hours.

Prerequisite: MUS 215.

The 18th-century style of counterpoint as developed by Bach. Offered in the spring semester.

MUS 307 Form and Analysis. 3 hours.

Prerequisite: MUS 217.

Complete survey of the forms of composition, beginning with phrase and period and covering large forms such as rondo, sonata, concerto, and fugue. Offered in the spring semester.

MUS 310 Arranging. 3 hours.

Prerequisite: MUS 117 or permission of the instructor.

Basic jazz arranging techniques for small ensembles. Offered in the fall semester.

MUS 312 Intermediate Arranging. 3 hours.

Prerequisite: MUS 310.

Continuation of MUS 310 (Arranging). Emphasis on writing for the big band and mixed media instrumentation, focusing on extended arranging techniques. Offered in the spring semester.

MUS 315 Management of Music Activities. 2 hours.

Practical consideration of all aspects of concert production and administration for musicians and music business people.

MUS 316 Careers in Music. 2 hours.

Exploration of careers in concert and commercial music for musicians and others. Offered spring semester.

MUS 319 Composition III. 3 hours.

Prerequisites: MUS 220 and permission of the instructor.

Projects in musical composition.

MUS 320 Composition IV. 3 hours.

Prerequisites: MUS 319 and permission of the instructor.

Projects in musical composition.

MUS 323 Music History III. 3 hours.

Prerequisite: MUS 252.

History of music in the 19th and 20th centuries, with emphasis on critical analysis of musical, historical, and cultural contexts. Offered in the fall semester.

MUS 325 Orchestration I. 3 hours.

Prerequisite: MUS 215.

Basic instrumentation and writing for ensembles and orchestra. Offered in the fall semester of even-numbered years.

MUS 327 Studies in Special Literature. 3 hours.

Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 331 Symposium. 3 hours.**MUS 333 Service Playing I.** 1 hour.**MUS 334 Service Playing II.** 1 hour.**MUS 335 Piano Accompanying Class.** 2 hours.

Corequisite: MUA 371 or permission of the instructor.

Survey of accompanying techniques and of the standard repertoire in the vocal, string, and wind areas. Experience is gained through assigned projects and/or assigned studio accompanying. Offered in the spring semester of even-numbered years.

MUS 340 Introduction to Recording Techniques. 3 hours.

Prerequisite: Permission of the instructor.

Exploration of the basics of the art of sound recording. Emphasis on the mixing console, microphone placement, effects, recording basic tracks, and mixdown.

MUS 351 Fundamentals of Conducting. 2 hours.

Prerequisite: Junior standing or permission of the instructor.

Introduction to the basic techniques of conducting with emphasis on the understanding and control of music materials. Offered in the fall semester.

MUS 365 Legal Issues in the Arts. 3 hours.

This course will explore a broad range of legal topics pertinent to the arts, including: copyright, trademark, contracts, management of employees, union issues, advertising and 501 (c)(3) non-profit status.

MUS 380 Introduction to the Psychology of Music. 3 hours.

Prerequisites: MUS 217, overall grade point average of 2.0 or higher, and grades of "C-" or above in all previous music therapy courses.

Corequisite: Applied study at the 300 level.

Basic study of acoustics, the ear and hearing, and the psychosociophysiological processes involved in musical behavior.

MUS 382 Music Therapy Practicum. 1 hour.

Corequisite: MUS 380.

Supervised music therapy experience in local facilities.

MUS 401 Film Scoring I. 3 hours.

Prerequisite: MUS 312.

A study of the art of scoring music for films. Emphasis will be placed on the short jingle and the technical aspects of film scoring. Offered in the fall semester.

MUS 402 Film Scoring II. 3 hours.

Prerequisite: MUS 401.

Continuation of MUS 401. Emphasis will be placed on writing the extended film score by analysis of psychological impact, orchestrational techniques, etc. Offered in the spring semester.

MUS 403 Advanced Counterpoint. 3 hours.

Prerequisite: MUS 304 or permission of the instructor.

The writing of fugue, variation, ground-bass, and canon. Offered in the fall semesters of odd-numbered years.

MUS 405 Studio Techniques in Arranging and Orchestration. 3 hours.

Prerequisite: MUS 312 or permission of instructor.

Continued development of arranging and orchestrating techniques in both jazz and commercial settings, with an emphasis on the studio orchestra, MIDI instrumentation, and vocal groups.

MUS 406 Keyboard Techniques. 2 hours.

Corequisite: MUA 371 or permission of the instructor.

Applied survey of figured bass, choral open-score reading, transposition, and harmonization. Offered in the fall semesters of odd-numbered years.

MUS 411 Techniques of Electronic Music. 3 hours.

Prerequisite: MUS 217 or permission of the instructor.

Fundamental concepts in the electronic medium and classical techniques in analog studio work. Offered in the fall semesters of odd-numbered years.

MUS 412 Digital Synthesis of Electronic Music. 3 hours.

Prerequisite: MUS 411.

Instruction in the design and utilization of sound-generating computer programs. Offered in the fall semester of even-numbered years.

MUS 414 Techniques of Electronic Music II. 3 hours.

Prerequisite: MUS 411 or permission of the instructor.

Utilization of digital synthesizers and advanced studio techniques. Offered in the spring semesters of even-numbered years.

MUS 418 Schenkerian Analysis. 3 hours.

Prerequisite: MUS 307 or permission of the instructor.

Study of pitch structure in tonal compositions as revealed by Heinrich Schenker and his followers. Offered in the fall semesters of odd-numbered years.

MUS 419 Composition V. 3 hours.

Prerequisites: MUS 320, MUS 326, and permission of the instructor.

MUS 420 Composition VI. 3 hours.

Prerequisites: MUS 419 and permission of the instructor.

MUS 426 Analysis of 20th-Century Music. 3 hours.

Prerequisite: MUS 304, MUS 307, or permission of instructor.

Survey of a variety of technical approaches to composition in the 20th century and such organizing techniques as harmony, voice leading, textural design, form, and orchestration. Offered in the fall semesters.

MUS 427 Studies in Special Literature. 3 hours.

Prerequisite: Permission of the instructor.

Thorough study of topics not included in the curriculum. Offered according to demand.

MUS 429 Proseminar in Chamber Music History and Literature.

3 hours.

Prerequisite: MUS 307.

Lecture and class reports analyzing selected chamber music masterworks from the 17th to 20th centuries.

MUS 431 Organ Design. 2 hours.

Prerequisite: Junior standing or permission of the instructor.

Analysis of the major aspects of organ design in contemporary America. Offered in the fall semesters of odd-numbered years.

MUS 432 European Organ Design. 3 hours.

Prerequisite: MUS 431 or permission of the instructor.

Study of the development of the organ in Europe. Offered in the spring semesters of even-numbered years.

MUS 433 Proseminar in Symphonic Literature. 3 hours.

Prerequisite: MUS 307.

Lecture and class reports analyzing selected masterworks from the symphony, symphonic poem, and concert overture repertoire.

MUS 435 Proseminar in Baroque Music. 3 hours.

Prerequisites: MUS 217, MUS 251, MUS 252, MUS 323, and MUS 307.

An intensive study of the music, composers, style characteristics, theoretical and aesthetic principles, and performance practices associated with the music of the Baroque period (1600–1750) via reading, listening, and musical analysis. Offered in the fall semesters of even-numbered years.

MUS 444 Vocal Pedagogy. 2 hours.

Prerequisite: Experience as a voice student or permission of the instructor. Introduction to the concepts, methods, and materials essential to effective teaching of the singing voice. Offered in alternate years.

MUS 447 Teaching Choral Music in Public Schools. 3 hours.

Prerequisites: BEP 305 and admission to the teacher education program. The scope, organization, and administration of choral programs in public schools. Includes analysis of teaching techniques and materials appropriate to specific levels of development. Offered in the fall semester.

MUS 448 Teaching Instrumental Music in Public Schools. 3 hours.

Prerequisites: BEP 305 and admission to the teacher education program. Problems encountered in the development of instrumental programs in public schools; analysis of beginning method books for heterogeneous and homogeneous groups; and development of a course of study to guide the new teacher. Offered in the fall semester.

MUS 461 The History and Literature of Jazz. 3 hours.

Prerequisite: MUS 117 or permission of the instructor.

History of the development of jazz to the present, from its African roots to its American florescence. Particular attention is paid to early styles and forms.

MUS 471 Literature of the Piano I. 2 hours.

Prerequisite: Keyboard major or permission of the instructor.

Survey of the important solo repertoire from Bach through Schubert. Examination of the development of keyboard technique from the time of the harpsichord through the time of the early piano. Offered in the fall semesters of even-numbered years.

MUS 472 Literature of the Piano II. 2 hours.

Prerequisite: Keyboard major or permission of the instructor.

Survey of the important solo repertoire from the early Romantic era through the present. Examination of the development of piano technique from Chopin and Liszt through Cage and Crumb. Offered in the spring semesters of odd-numbered years.

MUS 473 String Literature. 2 hours.

Prerequisite: String major or permission of the instructor.

Study of the standard repertoire for bowed instruments, from the Baroque period to the present.

MUS 474 Song Literature I. 3 hours.

Survey of the performance criteria and historical significance of the solo song literature of the United States, the British Isles, Germany, Austria, France, and Italy. Performance and class participation are required. Offered in alternate years.

MUS 475 Song Literature II. 3 hours.

Continuation of MUS 474. Offered in alternate years.

MUS 477 Organ Literature I. 2 hours.

Corequisite: MUA 372 or permission of the instructor.

Survey of organ literature and performance practice. Student reports and/or performances are required. Offered in fall of even numbered years.

MUS 478 Organ Literature II. 2 hours.

Corequisite: MUA 372 or permission of the instructor.

Continuation of MUS 477. Offered in spring of odd numbered years.

MUS 480 Music in Therapy: Psychiatric Disturbances of Adults and Children. 3 hours.

Prerequisites: MUS 281 and MUA 299.

Study of diagnostic categories, standard clinical techniques, and applications in music therapy.

MUS 481 Music in Therapy: Age-Related and Substance Abuse Problems. 3 hours.

Prerequisite: MUS 480.

Study of etiology, literature, and uses of music in treatment.

MUS 482 Music in Therapy: Developmental and Medical Problems.

3 hours.

MUS 487 Seminar in Professional Practice. 2 hours.

Prerequisite: MUS 380.

Study of clinical administration, supervision, ethics, and professional behavior.

MUS 488 Music Therapy Comprehensive Examination. No credit.

MUS 489 Music Therapy Internship. 6 hours.

Prerequisite: Completion of all required music therapy courses.

MUS 490 Raising Money: Development in Arts Administration. 2 hours.

Theories and techniques of securing funds for nonprofit organizations, including donor cultivation and grant preparation. Offered in the fall semester.

MUS 492 Choral Conducting. 2 hours.

Continuation of MUS 351 with emphasis on the problem of the choral ensemble. A study of rehearsal technique, vocal problems, diction, score analysis, style, and choral literature. Offered in the spring semester.

MUS 494 Band Conducting. 2 hours.

Continuation of MUS 351 with emphasis on the problem of the wind ensemble. A study of baton technique, score reading, rehearsal procedure, and band literature. Offered in the spring semester.

MUS 497 Senior Project. 1 hour.

Prerequisite: Senior standing.

Required of all BA students in music (music and music administration): A substantial paper on a topic approved by the faculty advisor and completed in consultation with the advisor and examined by a faculty committee. In administration: a supervised practicum arranged through the advisor.

MUS 498 Independent Research in Music.

MUSIC, APPLIED (MUA)

Office: 175 Moody Music Building

Enrollment in any applied music course requires permission of the instructor.

MUSIC ENSEMBLES

The music ensembles (one credit hour each semester) are regular University courses, open to all University students by audition. All attendance rules apply and grades are given. Only performance majors in the B.M. program who have completed the sophomore qualifying examinations may register for ensembles at the 300 level. All other students must register at the 100 level. The ensembles may be taken for credit more than once, subject to the restrictions noted below. Where the number of enrollments is limited, the stated limit refers to the total allowable number of semesters including both 100- and 300-level courses.

MUA 150:350 Symphony Orchestra

MUA 152:352 Wind Ensemble

MUA 153:353 Marching Band*

MUA 154:354 Symphonic Band

MUA 156:356 Percussion Ensemble

MUA 158:358 Contemporary Music Ensemble (maximum four semesters)

MUA 159:359 Jazz Ensembles

MUA 160:360 Opera Workshop

MUA 161:361 Opera Production

MUA 162:362 University Chorus

MUA 163:363 University Singers

MUA 165:365 Piano Accompanying (maximum two semesters)

MUA 166 Piano Ensemble I (maximum two semesters)

MUA 167:367 Jazz Combo

MUA 168:368 Women's Chorale

MUA 169:369 Chamber Music

MUA 191:391 Applied Practicum

*This ensemble meets from 4–5:30 p.m. Monday through Friday throughout the fall. Students may miss one meeting per week due to class or lab conflict.

STUDIO (PRIVATE) INSTRUCTION

Weekly meeting times for studio instruction must be arranged with the instructor at 3:00 p.m. on the first day of classes of a semester. The course numbers MUA 129 through MUA 149 denote private study of an instrument or voice for non-music majors; each course carries 1 hour of credit and may be repeated for credit. Audition required.

MUA 129 Guitar

MUA 131 Piano

Prerequisite: Three years of previous study.

MUA 132 Organ

MUA 133 Harpsichord

MUA 134 Voice

MUA 135 Violin

MUA 136 Viola

MUA 137 Cello

MUA 138 String Bass

MUA 139 Flute

MUA 140 Oboe

MUA 141 Bassoon

MUA 142 Clarinet

MUA 143 Saxophone

MUA 144 Trumpet

MUA 145 Horn

MUA 146 Trombone

MUA 147 Euphonium

MUA 148 Tuba

MUA 149 Percussion

Course numbers MUA 170 through MUA 189 and MUA 370 through MUA 389 denote private study of the principal instrument or voice for music majors; each course carries 1–4 hours of credit and may be repeated for credit. Music majors should register for the principal applied instrument at the MUA 170–MUA 189 level during the first four semesters at the University. Following successful completion of the sophomore qualifying examination (MUA 199), students should register for the principal applied instrument at the MUA 370–MUA 389 level. Weekly meeting times for studio instruction must be arranged with the instructor at 3:00 p.m. on the first day of classes of a semester.

MUA 170 and 370 Harp

MUA 171 and MUA 371 Piano

MUA 172 and MUA 372 Organ

MUA 174 and MUA 374 Voice

MUA 175 and MUA 375 Violin

MUA 176 and MUA 376 Viola

MUA 177 and MUA 377 Cello

MUA 178 and MUA 378 String Bass

MUA 179 and MUA 379 Flute

MUA 180 and MUA 380 Oboe

MUA 181 and MUA 381 Bassoon

MUA 182 and MUA 382 Clarinet

MUA 183 and MUA 383 Saxophone

MUA 184 and MUA 384 Trumpet

MUA 185 and MUA 385 Horn

MUA 186 and MUA 386 Trombone

MUA 187 and MUA 387 Euphonium

MUA 188 and MUA 388 Tuba

MUA 189 and MUA 389 Percussion

MUA 190 and MUA 390 Guitar

Course numbers MUA 270 through MUA 289 denote private study of a secondary instrument or voice for music majors; each course carries .5–1 hour of credit and may be repeated for credit. Weekly meeting times for studio instruction must be arranged with the instructor at 3:00 p.m. on the first day of classes of a semester. Audition required.

MUA 270 Harp
MUA 271 Piano
MUA 272 Organ
MUA 273 Harpsichord
MUA 274 Voice
MUA 275 Violin
MUA 276 Viola
MUA 277 Cello
MUA 278 String Bass
MUA 279 Flute
MUA 280 Oboe
MUA 281 Bassoon
MUA 282 Clarinet
MUA 283 Saxophone
MUA 284 Trumpet
MUA 285 Horn
MUA 286 Trombone
MUA 287 Euphonium
MUA 288 Tuba
MUA 289 Percussion
MUA 290 Guitar

Course numbers MUA 100 through MUA 125 and MUA 220 denote group instruction in piano, guitar, or voice. Each course carries 1 hour of credit.

MUA 100 Beginning Class Voice

MUA 121 Class Piano I

Open to music majors and minors only.

MUA 122 Class Piano II

Open to music majors and minors only.

MUA 123 Class Piano III

Open to music majors only.

MUA 124 Class Piano IV

Open to music majors only.

MUA 220 Class Guitar (prerequisite: MUS 115)

MUA 010 Music Convocation. No credit.

Required for all music majors and music minors.

MUA 199 Sophomore Qualifying Exam. No credit.

MUA 299 Piano Proficiency Exam. No credit.

Required for all music majors.

MUA 399 Junior Recital. 1 hour.

MUA 499 Senior Recital. 1 hour.

MUSIC EDUCATION (MUE)

Office: 261 Moody Music Building

Enrollment in specific courses in the College of Education may be restricted to students who clearly demonstrate the greatest potential for success as teachers. Factors such as general studies courses completed, GPA, scores on state and program tests, interviews, etc., may be considered.

MUE 107 Basic Skills in Music. 2 hours.

Prerequisite: Minimum 2.5 GPA.

Basic music-reading skills developed through singing and playing of instruments. The course is designed for the prospective elementary school teacher and is a prerequisite for MUE 385. Students with previous musical training may elect to demonstrate equivalent skills through testing.

MUE 200 Introduction to Music Education. 2 hours.

Techniques associated with teaching music in public schools. Development of classroom management skills and reflection on the role of the music educator in contemporary classrooms.

MUE 251 Introduction to Winds, Strings, and Percussion. 3 hours.

Group instruction in and exposure to techniques for working with wind, string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 252 Teaching String and Percussion Instruments. 2 hours.

Group instruction in and exposure to techniques of teaching and performing on string, and percussion instruments. This survey course includes lecture, demonstration, and hands-on participation. Offered spring semester.

MUE 350 Evaluation of Teaching and Learning in Music. 3 hours.

Prerequisites: MATH 100 or higher, BEP 305, admission to the teacher education program, and a grade of "B" or better in MUE 389.

Survey of standardized instruments and evaluation techniques in music.

MUE 351 Teaching Flute and Single Reeds. 3 hours.

Prerequisite: Admission to the teacher education program.

Instructional techniques and materials for teaching flute and single reeds.

Offered fall semester.

MUE 352 Teaching Double Reeds. 1 hour.

Prerequisite: Admission to the teacher education program.

Instructional techniques and materials for teaching oboe and bassoon.

Offered fall semester.

MUE 353 Teaching Brass Instruments. 2 hours.

Prerequisite: Admission to the teacher education program.

Designed to provide the instrumental music education major with skills necessary to teach beginning, intermediate, and advanced students of brass wind instruments. Offered spring semester.

MUE 354 Teaching Percussion II. 1 hour.

Prerequisite: Admission to the teacher education program.

Instructional techniques and materials for teaching intermediate and advanced players. Offered fall semester.

MUE 380 Vocal Methods. 2 hours.

Prerequisite: Admission to the teacher education program.

Corequisite: MUE 381.

Examination of vocal pedagogy, diction, and solo vocal literature appropriate for teaching students in a public-school setting. Offered spring semester.

MUE 381 Vocal Methods Lab. 1 hour.

Prerequisite: Admission to the teacher education program.

Examination of the vocal instrument and teaching strategies for working with young voices. Offered spring semester.

MUE 385 Teaching Music in the Elementary School. 3 hours.

Prerequisites: Minimum 2.75 GPA and MUE 107.

Music curriculum in elementary schools and methods and techniques of teaching music in various grades are covered.

MUE 387 The Elementary School Music Program. 3 hours.

Prerequisites: BEP 305, "B" or better in MUE 389, and admission to the teacher education program.

Comprehensive coverage of the music curriculum in the elementary school, including current methodologies. Teaching techniques and materials are demonstrated and applied in field experiences. Offered spring semester.

MUE 389 Clinical Experience in Music Education. 3 hours.

Prerequisite: MUS 117

Campus- and field-based experiences in public-school music education at several levels. Microteaching and development of teaching techniques are included. Offered fall semester.

MUE 486 Marching Band Techniques. 2 hours.

Fundamentals of marching, maneuvering, and preparation and presentation of formations. Offered fall semester and in summer term during odd-numbered years.

MUE 497 Internship in Music. 15–18 hours.

Prerequisites: Senior standing, admission to the teacher education program, a minimum GPA of 2.75 for all work attempted, a minimum GPA of 2.75 in the major, completion of senior recital, completion of teaching methods courses in major, and passing piano proficiency.

Full-time, supervised teaching experience in the area of specialization (instrumental or vocal), from nursery school through grade 12. Usually offered spring semester. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experience. Formal application meetings are held and their times will be posted in Graves Hall and announced in the Crimson White prior to the meetings.

NATURAL SCIENCE (NS)

Office: 2004 Shelby Hall

NS 101 Natural Science. 4 hours.

An introduction to the concepts and methods of natural science. For students not majoring in the natural sciences or related fields.

NEW COLLEGE (NEW)

Office: 201 Lloyd Hall

NEW 100 Introduction to Integrative Studies. 2 hours.

Designed to help New College students become more informed about the University and about New College so that they may maximize their opportunities in their undergraduate programs through New College. Enrollment is limited to New College students.

NEW 111 Academic Skills Development. 2 hours, pass/fail.

Corequisite: Corequisite required as designated each semester.

This course is designed to integrate study skills development with the content of Human Development 101 (HD 101), a corequisite course. Utilizing HD 101 lecture notes, readings, and tests, the course focuses on developing study strategies appropriate for a major university. Offered only during the second session of the summer term.

NEW 120 Capstone Enrichment Seminar. 1 hour, pass/fail.

This course is designed for participants in the Capstone Summer Honors Program. It focuses on the group interaction of people and the society around them. The relationship between people is studied as well as the effect of personality and behavior.

NEW 201:202 Recreation for Life. 1 hour, pass/fail.

In this course (designed by the student and his or her advisor using the out-of-class learning contract), the student agrees to participate in some form of physical activity that might result in a lifelong interest. These include jogging, swimming, cycling, etc. This course will frequently include a reading requirement relating to the activity.

NEW 211 Humanities I: Perspectives. 4 hours.

Introductory course in the humanities—art, literature, music, etc.—with a focus on problem solving, risk taking, and communication. Human behavior and writing skills are stressed.

NEW 212 Humanities I: Creativity. 4 hours.

This interdisciplinary seminar uses creativity as an organizing principle. Human culture and consciousness are explored through reading, writing, the arts, projects, studios, and discussion.

NEW 215 Perspectives on Environmental Literature. 4 hours.

Considers perspectives on environmental studies within the humanities by examining key texts of environmental literature.

NEW 222 Academic Potential. 2 hours, pass/fail.

This course is designed to assist students in developing practical study strategies and attitudinal elements of college success. Topics of primary focus include self-assessment, motivation, personal responsibility, time management, memory, textbook reading, note taking, test preparation, and exam taking. Open to all students.

NEW 223 McNair Scholars Seminar. 1 hour.

To provide knowledge and skills in a variety of areas to strengthen personal, academic, and research competencies vital to success in graduate programs.

NEW 226 Natural Science I: Organic Farming. 3 hours.

An intensive, hands-on course in organic farming, taught at a local working farm. Covers the basics of organic farming while also addressing questions about organic versus industrial agriculture models in relation to current environmental problems and solutions.

NEW 230 Natural Science I: Interdisciplinary Environmental Studies.

4 hours.

This course engages students in the study of environmental problems and solutions. It includes an examination of fundamental assumptions about the ethical human-nature relation and of how to value nature. The approach is interdisciplinary, drawing on the humanities, social sciences, and natural sciences.

NEW 237 Social Science I: Cooperation and Conflict. 4 hours.

This seminar explores cooperation and conflict in human societies—all that we do or fail to do in living together effectively. Students investigate and seek solutions for contemporary social problems.

NEW 238 Honors Social Science I. 4 hours.

This honors seminar explores the meaning of the practice of politics in its broadest sense as the work of the *polis*, or community. Draws upon various social science disciplines to investigate relationship of private and public in making political choices.

NEW 243 Natural Science I: The Laboratory Experience. 4 hours.

This seminar demonstrates how the nature of the laboratory experience plays an essential role in the understanding and advancement of science. Several multidisciplinary experiments are performed in geology, chemistry, physics, and biology.

NEW 270 Leadership – Volunteerism. 3 hours.**NEW 273 Social Science I: Social Issues and Ethics.** 4 hours.

This seminar is designed to develop an awareness of the methodologies and concerns of the social sciences in a comprehensive and theme-oriented experience. The primary focus is on the nature of inquiry, models for the analysis of change and ethical issues, and the place of ethical issues in the social sciences and society.

NEW 310–322 Out-of-Class Learning/Independent Study Experience.
1 to 12 hours.

A student desiring to pursue an academic interest for which no University

class is available may plan his or her own “course” through Out-of-Class Learning. A contract, or agreement, with New College is prepared by the student, in which the student identifies a variety of features of the proposed study: its goals and objectives; the methodology and resources to be employed in the attempt to meet the goals and objectives; and the procedure by which the study will be evaluated upon its completion. The process of preparing the contract should be in cooperation with the New College office, from which contract forms may be procured, and with a faculty member or other authority qualified to assist and assess the study. Credit hours awarded for Out-of-Class Learning are available, relative to the breadth or depth of the study, and subject to approval of the advisor to the study and director of the New College.

NEW 338 New College Review I. 2 hours.

This workshop provides students with practical experience in writing and publishing a special interest publication, the *New College Review*. Students gain experience in thematic approaches to a publication, concept formation for an audience, socially responsible publishing, and writing and editing persuasive essays. Students are strongly encouraged to take both NEW 338 and NEW 339 in sequence.

NEW 339 New College Review II. 2 hours.

This workshop provides students with practical experience in writing and publishing a special interest publication, the *New College Review*. Students edit, design, and distribute the *New College Review*. Students are strongly encouraged to take both NEW 338 and NEW 339 in sequence.

NEW 412 Songwriting Workshop. 4 hours.

Songcraft: songwriting workshop focuses on how songs are made. After a study of various genres (blues, troubadours, popular) students will produce their own songs.

NEW 413 Humanities II: Mythologies. 4 hours.

This course in comparative mythology introduces students to mythological systems from a variety of cultures, including preclassical, Greek, American Indian, Oriental, African, and contemporary American. Recurring motifs and current theories on the mythologizing process are analyzed.

NEW 414 Humanities II: Human Futures. 4 hours.

This seminar looks at possible ways people will be living 10, 20, 100 years from now. Students read, write, design, plan, brainstorm, influence, discuss, test, evaluate, and do a few other things regarding human (and nonhuman) futures.

NEW 415 Humanities II: Gender, Sexuality, and Popular Culture.
3 hours.

What constitutes “femininity” and “masculinity” in 21st century America? How have gender roles changed? Is gender performance? What are the cultural expectations around sexuality and how is it influenced and policed in society? Includes professor’s current case research in this field.

NEW 418 Humanities II: Arts. 4 hours.

An interdisciplinary look at 20th-century art forms, this seminar includes art appreciation, art history, and studio experiences in various media.

NEW 434 Documenting Justice I. 3 hours.**NEW 435 Documenting Justice II.** 3 hours.**NEW 436 Social Science II: Public Leadership.** 4 hours.

This seminar helps students develop the understanding and skills necessary for the practice of public leadership. The course emphasizes framing public issues for discussion and leading the decision making necessary to set the direction of public policy.

NEW 437 Social Science II: Civic Awareness. 4 hours.

Current events are examined through print and electronic media in order to assist students in evaluating various sources of information concerning public issues and in developing a public philosophy for responsibilities as a citizen.

NEW 442 Natural Science II: Population and Environmental Problems.
4 hours.

Natural Science II attempts to develop a broad overview of environmental and population problems. Several areas (population biology, global modeling, ecology, etc.) are studied in order to provide the proper perspective on the seriousness of the problems.

NEW 443 Natural Science II: Science and Technology. 4 hours.

The course teaches scientific concepts (time and laws of thermodynamics, change, measurement, reality, etc.) as they relate to the various sciences (anthropology, mathematics, etc.). The relationship of science and technology to the environment of the Earth’s surface is stressed.

NEW 444 Natural Science II: Scientific Inquiry. 4 hours.

Reading and discussion of influential views about the nature of scientific method, evidence, scientific explanation and scientific change, in the context of actual scientific disputes.

NEW 472 Social Science II: Social Change. 4 hours.

This seminar is concerned with the process and analysis of social change. In this seminar, students study the Holocaust, attempting to understand it as an intense and unparalleled human experience. The causes, events, outcomes, and implications are researched through books, films, interviews, tapes, and discussions.

NEW 473 Social Science II: Globalization. 4 hours.

This course examines the relationship between the global and the local, using world folk craft (for example, pottery) as a point of focus. The functions of creativity in industrialized and nonindustrialized societies are explored through a combination of reading, research, discussion, and studio experiences.

NEW 474 Social Science II: Survival. 4 hours.

In this seminar, students study the nature of human and societal survival under extreme conditions. Topics range from issues of a global nature to violent crime, prejudice, and disease. Causes, effects, and possible solutions are all considered.

NEW 490 Special Topics. 3 to 4 hours.

The subject matter varies.

NEW 491 Special Topics—Practice. 3 to 4 hours.

Subject matter varies. Hands-on interdisciplinary learning opportunities.

NEW 495 Capstone Seminar and Senior Project. 2 hours.

NORWEGIAN (NOR)

Office: 200-D B.B. Comer

NOR 101 Elementary Norwegian I. 3 hours.

Contemporary Norwegian—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

NOR 102 Elementary Norwegian II. 3 hours.

Prerequisite: NOR 101 or consent of CLC director.

Contemporary Norwegian—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

NURSING (NUR)

Dr. Sara E. Barger, Dean

Office: 455 Russell Hall

All references to freshman, sophomore, junior, and senior standing refer to student's standing in the prescribed nursing curriculum.

NUR 102 Introduction to Professional Nursing. 1 hour.

The purpose of this elective course is to introduce the student to the Capstone College of Nursing and to help the student develop an awareness of and appreciation for the nursing profession. Emphasis is placed on the advisement process, study skills, professional nursing organizations, an overview of the CCN curriculum, and opportunities in nursing. (Theory)

NUR 104 Living and Learning in Professional Nursing. 2 hours.

This elective course focuses on awareness of education of nursing majors at The University of Alabama Capstone College of Nursing and the profession of nursing. Students have the opportunity to learn about The University of Alabama campus, the Capstone College of Nursing, and the profession of nursing. Activities will be included to promote students' development of relationships with other nursing students and other students in Harris Hall. This course, which is known as a compass course, will point you in the right direction, much as a compass would. (Theory)

NUR 155: HIV/AIDS: The Evolving Pandemic. 3 hours.

Prerequisite: None.

The purpose of this course is to provide the history, facts and trends of the evolution of HIV/AIDS. Particular emphasis will be given to the prevention and early detection of infection for college students. Students will have an opportunity to increase their knowledge and understanding of the disease

and the impact it has had on individuals, special populations, and the world. Guest lecturers, videos, and community experiences will enhance this learning experience. (Theory)

NUR 231 Abusive Behavior in Families. 3 hours.

Prerequisite: Sophomore standing.

This elective course focuses on abusive behaviors, including abuse of the child, spouse, sibling, and elderly. Emphasis is placed on legal responsibilities of health professionals in cases of abuse. Elective. Open to non-nursing majors. (Theory)

NUR 300 Critical Thinking and Problem Solving. 2 hours.

This course provides opportunities for students to enhance problem-solving and decision-making skills. Students will learn cognitive self-assessment and how to intervene with factors which may interfere with the problem-solving process.

NUR 305 Human Pathophysiology. 3 hours.

Prerequisite: Promotion to the upper division.

The purpose of this course is to introduce students to fundamental pathology of the human body. This course examines physiological changes resulting in disruptive adaptive responses throughout the lifespan. These disruptive responses are approached in a systematic manner. A combination of identified cellular concepts and a body systems approach is utilized to structure course content. Included are basic cellular processes in human pathology, pathology associated with the major body systems, and physiology associated with the aging process. (Theory)

NUR 307 Medication Calculation. 1 hour.

Prerequisite: Promotion to the upper division.

This course is designed to facilitate the students' development of those skills necessary to properly calculate medication dosages and to prepare the student for the Medication Calculation Mastery Exam. Emphasis is placed on those cognitive skills necessary to perform the calculations correctly. (Theory)

NUR 308 Conceptual Foundations for Professional Nursing. 3 hours.

Prerequisite: Promotion to the upper division.

This course focuses on concepts and issues relevant to professional nursing practice. Content related to the values of professional nursing and issues affecting practice will be examined. Students are introduced to concepts from the CCN philosophy and conceptual framework. A passing grade in writing proficiency is required for a passing grade in this course.

NUR 309 Nursing Informatics. 3 hours.

Prerequisite: Promotion to Upper Division, CS 102 or complementary course approved by the Capstone College of Nursing.

This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs.

NUR 312 Summer Acute Care Internship. 1 to 4 hours.

Prerequisite: NUR 324

An elective clinical course that focuses on the further refinement of clinical and leadership skills. Students taking more than one semester hour will contract with the clinical faculty member for additional assignments. (Laboratory)

NUR 317 Independent Study: Special Topics. 1 to 4 hours.

Prerequisite: Junior standing.

This course focuses on individual independent study of a selected topic under the sponsorship of a nursing faculty member with relevant expertise. Prior approval of proposal by faculty sponsor and associate dean required. Elective.

NUR 319 Nursing Informatics for Registered Nurses. 3 hours.

Prerequisite: CS 102 or complementary course approved by the college.

This required online course is limited to nursing majors who have previous computer experience. The course focuses on utilization of computers in health care education, practice, research and administration with emphasis on nursing applications. The computer assignments provide experience with a clinical information system, Internet, PDAs, word processing, databases, spreadsheets, and graphics programs. (Theory)

NUR 324 Fundamentals of Professional Nursing Practice. 9 hours.

Prerequisites: NUR 305, NUR, 307, NUR 308, and NUR 309.

Integration of knowledge, theories, and skills from the humanities, arts, and sciences serves as the foundation for this introductory clinical course. Students will develop adult assessment skills including the health history, physical, psychosocial, and spiritual aspects necessary for critical thinking in professional nursing practice. The nursing process will be presented as

a framework for critical thinking, decision making, and nursing practice. Levels of prevention will be introduced as a model for health care. (Theory and laboratory)

NUR 326 Pharmacology for Nursing Practice. 3 hours.

Prerequisite: NUR 305, NUR 307, NUR 308, and NUR 309.

The purpose of this course is to introduce the student to the role of pharmaceutical agents in assisting with the individual's adaptation to stressors. A brief history and a discussion of the legal controls that regulate the field of pharmacology are included. Drug prototypes are utilized to examine the major classifications of drugs. Included in each drug classification is a discussion of pharmacokinetics, therapeutic uses, adverse reactions, precautions, and contraindications. The special considerations of groups of individuals who may be receiving drug therapy are also included. Health teaching and nursing implications for each drug classification are emphasized. (Theory)

NUR 328 Introduction to Nursing Research. 3 hours.

Prerequisites: NUR 324 and NUR 326.

This course introduces nursing students to key terminology, elements, and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, and articulation of the importance of research for improving practice and the health of society, and for advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency is required for a passing grade in this course. (Theory)

NUR 329 Inquiry for Evidence-Based Practice in Nursing for Registered Nurses. 3 hours.

Prerequisites: Statistics (BER 345, PY 211 or ST 260), Ethics (PHL 200 or 204), NUR 319, NUR 348.

This online course designed for registered nurses introduces key terminology, elements, and processes of research. Emphasis is placed on appreciation of the historical and evolving nature of nursing research, the roles of nurses in research, achievement of basic ability to read research literature critically, assessment of the readiness of research for application to practice, identification of strategies for personal and institutional use of research findings in practice, and articulation of the importance of research for improving practice and the health of society, and advancing the nursing profession. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency is required for a passing grade in this course. (Theory)

NUR 336 Cardiac Electrophysiology in Nursing. 3 hours.

Prerequisites: NUR 305 and NUR 324.

This elective course provides an opportunity to expand knowledge of cardiac arrhythmias and dysrhythmias and to identify basic deviations from the normal 12-lead EKG. Discussions directed toward application of knowledge gained from hypothetical case situations. Elective. (Theory)

NUR 343 Role Transition in Baccalaureate Nursing. 3 hours.

Prerequisites: NUR 309 and unencumbered RN license.

This course is designed for registered nurse students and is structured to provide the foundation for continuing development of the student's body of conceptual and practical knowledge essential for enacting the professional nursing roles. Writing proficiency is required for a passing grade in this course. (Theory and laboratory)

NUR 348 Role Transition in Baccalaureate Nursing. 4 hours.

Prerequisites: NUR 319 (May be corequisite) and promotion to the upper division.

This online theory course designed for registered nurse students is structured to provide the foundation for continuing development of the students' body of conceptual and practical knowledge essential for enacting the professional nursing roles. This required course meets the University's Core Curriculum requirements for writing. Writing proficiency is required for a passing grade in this course. (Theory)

NUR 350 Critical Thinking and Clinical Judgment. 2 hours.

This course provides opportunities for students to gain skills and knowledge on advanced clinical problem-solving and decision-making. Students will learn cognitive self-assessment and how to intervene with factors which may interfere with the problem-solving process. NCLEX-style questions will be used to facilitate the learning process.

NUR 372 Professional Nursing Practice: Adults. 8 hours.

Prerequisites: NUR 324 and NUR 326.

This course focuses on actions designed to detect and intervene in actual or potential health problems in adults and to determine actions that will ameliorate or reduce the consequences of adult disease through support or

rehabilitation. Clinical experiences are designed to develop skills for early detection, diagnosis, and treatment of acute and chronic health problems in adults and prevention of further disability. (Theory and laboratory)

NUR 374 Professional Nursing Practice: Mental Health. 4 hours.

Prerequisites: NUR 324 and NUR 326.

This course focuses on actions designed to detect and intervene in actual or potential health problems across the lifespan and to determine actions that will ameliorate or reduce the consequences of mental-health problems. Students will develop skills in detection, diagnosis, and treatment of mental health problems across the lifespan. These mental-health nursing skills are designed to improve the mental health of patients and to prevent further disability. (Theory and laboratory)

NUR 418 Professional Nursing Practice: Childbearing Families.

4 hours.

Prerequisites: NUR 328, NUR 372, and NUR 374.

This course focuses on the role of the nurse in providing holistic care to the childbearing family. The student will be given simple to complex situations during class/clinical experiences in which to assist childbearing families to adapt. A major focus will be on the three levels of prevention in the implementation of nursing care to childbearing families who are experiencing a normal maturational process as well as related acute/chronic health problems. (Theory and laboratory)

NUR 420 Professional Nursing Practice: Children. 4 hours.

Prerequisites: NUR 328, NUR 372, and NUR 374.

This course focuses on actions designed to detect and intervene in actual or potential health problems in children and to determine actions that will ameliorate or reduce the consequences of disease in children through support or rehabilitation. Students will develop skills in early detection and diagnosis of disease in children and treatment of acute and chronic health problems that will prevent further disability. (Theory and laboratory)

NUR 422 Professional Nursing Practice: Community Health. 4 hours.

Prerequisites: NUR 328, NUR 372, and NUR 374.

This nursing course focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. (Theory and laboratory)

NUR 449 Community Health for Registered Nurses. 5 hours.

Prerequisites: Nutrition (NHM 101), Medical Ethics (PHL 200 or 204), NUR 319, NUR 348 completed health requirements and unencumbered RN license.

Corequisites: NUR 329.

This online course designed for registered nurses focuses on the knowledge and skill competencies required for community/public health nursing practice. Educational and clinical experiences are community-based, community-oriented, and population-focused. Health promotion, risk reduction and management, and disease prevention for individuals, families, and populations in community settings are emphasized. The course also emphasizes knowledge and practice of illness and disease management in noninstitutional environments. (Theory and laboratory)

NUR 455 Leadership and Management Roles in Baccalaureate Nursing. 5 hours.

Prerequisites: NUR 319, 329 and 348 and unencumbered RN license.

Corequisite: NUR 465.

This online course designed for registered nurses focuses on leadership theory and management functions essential to professional nursing. The application of leadership and management principles through completion of a leadership project comprises the clinical experience for the course. (Theory and laboratory)

NUR 465 Complex Client Systems for Registered Nurses. 5 hours.

Prerequisites: NUR 319, 348, 329, and 449

Corequisite: NUR 455 may be corequisite

This online synthesis course, designed for registered nurses, provides opportunities for the registered nurse student to examine complex acute and chronic health problems across levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Activities will focus on nursing actions used to intervene in care of complex clients. (Theory and laboratory)

NUR 471 Professional Nursing Practice: Complex Client Systems.

4 hours.

Prerequisites: NUR 418, NUR 420, and NUR 422.

This synthesis course provides opportunities for the student to examine complex acute and chronic health problems across the levels of prevention. Students will apply concepts from prerequisite and concurrent courses and use critical thinking and decision-making skills to evaluate interventions to ameliorate or reduce the health problems. Clinical activities will focus on nursing actions used to intervene in care of complex clients. (Theory and laboratory)

NUR 473 Professional Nursing Practice: Leadership in Practice.

7 hours.

Prerequisites: NUR 418, NUR 420, and NUR 422.

This course focuses on leadership theory and management functions essential to professional nursing. Skills essential to this role development are communication, collaboration, negotiation, delegation, coordination, and evaluation of interdisciplinary work, and the application of outcome-based practice models. Clinical experiences focus on enactment of the professional nurse role in a concentrated practicum in secondary or tertiary prevention care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking, and decision-making. (Theory and laboratory)

NUR 474 Honors Professional Nursing Practice. 7 hours.

Prerequisites: Enrollment in the University Honors Program, NUR 418, NUR 420, and NUR 422

This course focuses on leadership theory and management functions essential to professional nursing. Clinical experiences focus on enactment of the professional nurse roles in a concentrated practicum in secondary or tertiary care facilities. Leadership and management principles are applied as students enhance direct care delivery skills, critical thinking and decision-making. The honors section will complete an in-depth comparison of quality improvement models for health care management. Subsequent application of a selected model in a rural health care delivery system will be implemented and reported in a scholarly paper. (Theory and laboratory)

NUR 475 Preparation for Licensure. 1 hour.

Prerequisites: NUR 418, NUR 420, and NUR 422.

Prerequisites or Corequisites: NUR 471 and NUR 473 or 474.

This synthesis course provides opportunities for the student to assess his/her knowledge acquisition and to implement strategies with faculty assistance to ameliorate deficiencies and maximize learning. Students will have the opportunity to use individual, group, and technology-based methods to facilitate critical thinking and problem-solving using client situations. Students will also complete the licensure application process. (Theory)

OPERATIONS MANAGEMENT (OM)

Dr. Mike Conerly, Department Head

Office: 300 Alston Hall

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

OM 300 Introduction to Operations Management. 3 hours.

Prerequisite: ST 260. OM majors enrolling in OM 300 in the spring semester should also enroll in OM 310 and OM 321.

This course is an introduction to the field of operations management and addresses the design and management of the activities and resources that a firm uses to produce and deliver its products or services. Topics include operations strategy, product and process design, total quality management, statistical quality control, supply chain management, location analysis, forecasting, inventory management, operations planning, and lean/JIT business processes.

OM 310 Introduction to Management Science. 3 hours.

Prerequisite: ST 260.

Concepts of management science and their application to decision making. Topics include linear programming, transportation models, integer programming, dynamic programming, queuing theory, decision theory, and network models.

OM 321 Production Planning and Control. 3 hours.

Prerequisite: OM 300. OM majors may enroll in OM 300 and OM 321 concurrently.

The planning and control of production and service systems. Attention is given to forecasting, operations planning, scheduling, materials management, and operations control.

OM 375 Statistical Quality Control. 3 hours.

Prerequisite: ST 260 or equivalent.

Statistical methods useful in control of quality of manufactured products. Topics include Shewhart and cumulative sum control charts; process capability analysis; and acceptance sampling procedures by attributes and variables. Emphasis is on understanding, design, implementation, and interpretation of these techniques.

OM 385 Information Technology for Operations Management. 3 hours.

Prerequisite: ST 260.

Introduction to the components of management information systems and applications of computer-based systems to business decisions. Open only to OM majors or by permission of the instructor.

OM 420 Computer Simulation. 3 hours.

Prerequisite: OM 310.

The use of simulation as a tool to understand and improve the performance of complex systems and processes. Students will learn the details of a specific simulation language. Applications to production processes and operational activities.

OM 422 Operations Scheduling. 3 hours.

Prerequisite: OM 321.

A broad investigation into a variety of scheduling activities in a variety of environments. Topics include scheduling as applied to projects, job-shops, assembly lines, parallel machine systems, workforce, and transportation.

OM 423 Inventory Management. 3 hours.

Prerequisite: OM 310. OM majors may enroll in OM 310 and OM 423 concurrently.

Control techniques for the large multi-item inventories frequently associated with manufacturing supply and wholesale-retail operations. The limitations and usefulness of models in actual practice.

OM 425 Effective Quality Management. 3 hours.

Prerequisite: approval of advisor.

Provides a broad understanding of the philosophies and methods used to enhance organizational effectiveness in a wide range of organizational settings.

OM 491 Independent Study in Operations Management. 1-3 hours.

Students may earn degree credit for only one independent study course (491).

OM 492 Internship in Operations Management. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.5 or higher. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public sector organizations.

OM 497 Special Topics. 3 hours.

PHILOSOPHY (PHL)

Office: 336 ten Hoor Hall

Usually, only 100-level and 200-level courses are offered in the summer.

PHL 100 Introduction to Philosophy. 3 hours.

Survey of the main topics of philosophy, which may include God, souls, free will, the nature of right and wrong, just government, truth, and knowledge. Offered in the fall and spring semesters.

PHL 101 Introduction to Deductive Logic. 3 hours.

Prerequisite: MATH 100 or equivalent.

Introduction to modern symbolic logic, involving paraphrasing, truth-functional evaluation of arguments, and the construction of proofs in propositional and predicate logic. Offered in the fall and spring semesters.

PHL 103 Honors Deductive Logic. 3 hours.

Prerequisite: Eligibility for membership in the University Honors Program. Advanced introduction to symbolic logic: symbolization of English statements and arguments and proof construction in propositional logic and predicate logic with relation symbols. Some meta-mathematical techniques may also be covered.

PHL 104 Critical Reasoning. 3 hours.

Introduction to the concepts and methods used to identify, construct, and assess arguments as they appear in editorials, articles, ordinary speech, etc.

PHL 105 Honors Introduction to Philosophy. 3 hours.

Prerequisite: Eligibility for membership in the University Honors Program. Is it reasonable to believe God exists? Is your mind your brain? What makes you the same person, over time? What is the proper role of government? Are right and wrong just human ideas, or are they objective? If there is a right way to live, what reason is there to follow it? Answers, and arguments for them, at an introductory level. Offered in the fall semester.

PHL 200 Introduction to Ethics. 3 hours.

Credit for PHL 200 will not be granted to students who have already taken PHL 202. Introduction to competing views of how one ought to live, designed to promote the development of a reasoned view of one's own. May include such topics as ethical relativism, the nature of justice and of rights, and the relationship of law and morality. Offered in the fall and spring semesters.

PHL 201 Ancient Greek Philosophy. 3 hours.

History of philosophy from Thales to Aristotle. Offered in the fall semester.

PHL 202 Honors Introductory Ethics. 3 hours.

Prerequisite: Eligibility for membership in the University Honors Program. Credit for PHL 202 will not be granted to students who have already taken PHL 200. Course content varies; a current version centers around classical ethical theories, the question of whether ethics is subjective, and the nature of wickedness.

PHL 204 Medical Ethics. 3 hours.

Introduction to ethics via the moral problems that arise when someone is ill or injured or dying. Topics include euthanasia, truth-telling and medical paternalism, AIDS, and whether health care should be guaranteed to all citizens by the government.

PHL 217 Aesthetics. 3 hours.

Introduction to problems in the philosophy of art, including the nature of art and beauty, the function of art, the objectivity of aesthetic evaluation, and politics and the arts.

PHL 220 Political Philosophy. 3 hours.

What are the proper aims of government, and the proper scope of its power? The views of Aristotle, Locke, Mill, and Marx will be explored, as well as the implications for current issues such as civil rights, income redistribution and welfare programs, and the protection of the environment.

PHL 225 Philosophical Issues in Criminal Law. 3 hours.

Issues include the following: What should count toward making an activity criminal? What is it to be responsible for a crime? What considerations should govern what happens when someone is found to be responsible? What role should juries play in all this?

PHL 226 Philosophical Issues in Civil Law. 3 hours.

Issues include the following: Are there limits to what a person should be able to own? What makes a contract fair, and to what extent should only fair contracts be enforceable? Should we be free to contract anything we wish? When should one person be liable for a harm befalling another, and what limits, if any, are there to what that liability should cost him or her?

PHL 227 Philosophical Issues in Constitutional Law. 3 hours.

Issues include (at one level) what we ought to have by way of particular rights and (at another) how the Supreme Court ought to reason about such matters. The rights examined vary each semester. Recent focus has been on freedom of religion and on freedom from cruel and unusual punishment. Theorists studied include Bork, Posner, and Dworkin.

PHL 235 Classic American Philosophy. 3 hours.

Philosophers including Jonathan Edwards, Charles Peirce, William James, George Santayana, and John Dewey are read.

PHL 236 Introduction to Philosophy of Science. 3 hours.

Basic issues in philosophy of science, including the following: What distinguishes science from pseudo-science? Is there a scientific method? If so, what is that method? What constitutes a scientific explanation? How are theory and observation related? How do hypotheses get confirmed? And how do values function in science?

PHL 250 Introduction to Metaphysics. 3 hours.

Topics may include proofs for the existence of God, the nature of reality, free will and determinism, personal identity, and the nature of time.

PHL 251 Renaissance and Modern Philosophy. 3 hours.

A history of philosophy from the 16th century to the 19th century, which may include study of Hobbes, Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume, Kant, Hegel, Marx, and Bentham. Offered in the spring semester.

PHL 252 Mind and Nature. 3 hours.

Introduction to philosophical topics involving human nature, such as the relation between mind and body, the emotion, artificial intelligence, psychic phenomena, and determinism and moral responsibility.

PHL 300 Symbolic Logic. 3 hours.

Prerequisite: PHL 101 or equivalent.

Detailed study of the logic of truth functions and predicates aimed at developing facility in formal inference and at understanding the logic of natural languages. Topics include normal forms, multivariate quantification with identity, relations, and the logic of singular terms.

PHL 301 Philosophy of Religion. 3 hours.

Prerequisite: One philosophy course other than PHL 101, PHL 102, or PHL 300, or permission of the instructor.

Advanced study of topics in philosophy of religion that may include arguments for the existence of God, the divine attributes, miracles, atheism, the problem of evil, faith, prayer, religiosity, and immortality.

PHL 310 Theories of Justice. 3 hours.

Prerequisite: At least two philosophy courses or permission of the instructor.

Advanced study of prominent theories of prominent historical and contemporary theories of justice (for example, those of Plato, Aristotle, Rawls, or Nozick) and the implication of those theories for political problems such as the distribution of health care, affirmative action, or public goods.

PHL 336 History of Philosophy: Special Topic. 3 hours.

Prerequisite: At least two philosophy courses or permission of the instructor.

Study of a particular philosopher, philosophical movement, or problem in the history of philosophy.

PHL 350 Contemporary Philosophy. 3 hours.

Prerequisite: At least two philosophy courses.

Analytic philosophy in the 20th century. Topics may include linguistic analysis, logical atomism, logical positivism, ordinary language philosophy, existentialism, and phenomenology.

PHL 352 Metaphysics. 3 hours.

Prerequisite: At least two philosophy courses or permission of the instructor.

Advanced study of such traditional metaphysical problems as personal identity, the mind-body problem, action theory, free will, universals, the nature of space and time, creation, causation, and purpose.

PHL 354 Philosophy of Mind. 3 hours.

Prerequisite: At least two philosophy courses or permission of the instructor.

Study of the philosophical problems surrounding the nature of the mind and its relation to the world. Topics may include physicalism, reductionism and the unity of science, the content of mental states, cognitive psychology, and the role of mind in psychological explanation.

PHL 355 Mind, Language, and Reality. 3 hours.

Prerequisites: PHL 101 or PHL 103 and one other philosophy course, or permission of the instructor.

Study of philosophical issues about language, typically theories of reference and meaning. Other topics may include the nature of language, speech-act theory, theories of translation and interpretation, and theories of truth.

PHL 380 Special Studies in Philosophy. 3 hours.

Prerequisite: At least two philosophy courses or permission of the instructor.

Studies of selected philosophers, philosophical movements, or philosophical issues. Recent offerings have included cognitive science, philosophy and evolution, and ethics and parenthood.

PHL 400 Special Studies in Ethics. 3 hours.

Prerequisites: PHL 200 or PHL 202 or PHL 204.

Current topics. Content varies. Recent topics include free will, moral realism, equality, and egalitarianism.

PHL 412 Philosophy of Law. 3 hours.

Prerequisites: At least one course chosen from PHL 220, PHL 225, PHL 226, or PHL 227; PHL 200 or PHL 202 also recommended.

The nature of law and legal systems, the question of an obligation to obey the law, the role of a judge in a system of law, and selected topics such as the place of mercy in a system of justice and the moral relationship between those who commit crimes and the victims of those crimes.

PHL 480 Seminar on Special Topics. 3 hours.

Prerequisite: Permission of the instructor.

PHL 485 Research. 3 hours.

Prerequisite: Permission of the instructor.

PHYSICS (PH)

Office: 206 Gallalee Hall

PH 101 General Physics I. 4 hours.

Prerequisite: MATH 113 or MATH 115 or equivalent.

Lecture and laboratory. An introductory course including classical mechanics and thermodynamics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.

PH 102 General Physics II. 4 hours.

Prerequisite: PH 101.

Lecture and laboratory. An introductory course including electricity and magnetism, optics, and modern physics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.

PH 105 General Physics with Calculus I. 4 hours.

Prerequisite: MATH 125 or MATH 145.

Lecture and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.

PH 106 General Physics with Calculus II. 4 hours.

Prerequisites: MATH 126 or MATH 146 and PH 105 or PH 125 (or PH 101).

Lecture and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.

PH 111 Introductory Physics Seminar. 1 hour, pass/fail.

Lecture series on current topics in physics. Open to all undergraduates. A broad introduction to exciting developments in modern physics at an introductory level. Faculty will present recent developments including student suggestions.

PH 115 Descriptive Physics for Non-Science Majors. 4 hours.

Credit earned in this course may not be counted toward fulfillment of the requirements for the major or minor in physics. Credit will not be granted for both PH 101 and PH 115. Three lecture hours and one laboratory period. Demonstration lectures on the chief topics of classical and modern physics. Designed for non-science majors who want an introductory course with no math prerequisites.

PH 125 Honors General Physics with Calculus I. 4 hours.

Prerequisites: Membership in the University Honors Program or permission of the department; and MATH 125 or MATH 145. Lecture, discussion, and laboratory. Introductory calculus-based course in classical mechanics. Degree credit can only be awarded for one of the following: PH 101, PH 105, or PH 125.

PH 126 Honors General Physics with Calculus II. 4 hours.

Prerequisites: Membership in the University Honors Program or permission of the department; MATH 126 or MATH 146; and PH 125 or PH 105.

Lecture, discussion, and laboratory. Introductory calculus-based course in classical physics, including electricity, magnetism, and optics. Degree credit can only be awarded for one of the following: PH 102, PH 106, or PH 126.

Courses numbered 253–354 have as prerequisites PH 101, PH 105, or PH 125 AND PH 102, PH 106, or PH 126 in addition to other prerequisites specified.

PH 253 Introduction to Modern Physics. 3 hours.

Prerequisites: MATH 126 or MATH 146.

Study of topics in modern physics, including special relativity, quantum physics, atomic and nuclear structure, and solid state physics.

PH 255 Modern Physics Laboratory. 1 hour.

Prerequisite or corequisite: PH 253.

Experimental work in the topics that form the subject matter of PH 253.

PH 301 Mechanics. 3 hours.

Prerequisite or corequisite: MATH 238.

Vector analysis and treatment of Newtonian mechanics at the intermediate level.

PH 302 Intermediate Mechanics. 3 hours.

Prerequisite or corequisite: MATH 238.

Treatment of Newtonian mechanics at the intermediate level, including

central forces, lagrangians, normal modes, and waves. Designed for students planning graduate study in physics or astronomy.

PH 331 Electricity and Magnetism I. 3 hours.

Prerequisite or corequisite: MATH 238.

Electrostatics, Ampere's and Faraday's laws, vector potential, displacement current, and Maxwell's equations.

PH 332 Electricity and Magnetism II. 3 hours.

Prerequisite: PH 331.

Continuation of electricity and magnetism, beginning with Maxwell's equations.

PH 333 Optics. 4 hours.

Prerequisite: MATH 126 or MATH 146.

Three lecture hours and one laboratory period. Geometric optics, including matrix method, thin and thick lenses and mirrors, aberrations, stops, and optical instruments. Physical optics, including interference, diffraction, coherence, transfer functions, optical filtering, holography, and lasers.

PH 354 Intermediate Modern Physics. 3 hours.

Prerequisite: PH 253

Continuation of PH 253. Applications of quantum mechanics, including lasers, semiconductors, particle physics, nanoscience, and other current topics.

Courses numbered 400–499 have as prerequisites 14 hours of physics, or 11 hours of physics and senior standing.

PH 405 Physics for Science Teachers. 3 hours.

Selected topics in contemporary physics for high-school and post-secondary science teachers.

PH 411 Biophysics. 3 hours.

Prerequisite: Permission of the instructor.

Physics of biological systems: proteins, lipids, nucleic acids, supramolecular structures, and molecular motors; structure, function, energetics, thermodynamics, bionanotechnology. Emphasis on systems that are best understood in physical and molecular detail.

PH 434 Digital Electronics and Computer Interfacing. 3 hours.

Prerequisite: PH 334 or permission of the instructor.

Two laboratory periods. Theory and practical application of digital integrated circuits, including gates, flip-flops, counters, latches, and displays. Computer data acquisition and control using LabView and A/D and D/A fundamentals.

PH 441 Quantum Structure of Matter I. 3 hours.

Prerequisites: PH 253, PH 331, and PH 301 or PH 302; or permission of instructor.

No graduate credit will be awarded for PH 441. Introduction to quantum mechanics, including solutions to the Schrodinger equation.

PH 442 Quantum Structure of Matter II. 3 hours.

Prerequisite: PH 441.

No graduate credit will be awarded for PH 442. Continuation of quantum mechanics with applications in atomic, molecular, solid state, and nuclear physics.

PH 461 Nuclear and Particle Physics. 3 hours.

Prerequisite: PH 441.

Stable nuclei, isotopes, nuclidic masses, alpha decay, phase space, gamma ray transitions, Yukawa forces, isotopic spin, scattering, resonance behavior, the quark model, heavy flavors, Higgs bosons, and the electroweak theory.

PH 471 Thermal Physics. 3 hours.

Prerequisite: PH 253 and MATH 227 or MATH 247.

Introduction to thermal phenomena on a macroscopic and a statistical basis, and principles and laws governing them.

PH 481 Solid State Physics. 3 hours.

Prerequisite: PH 441.

Phenomenological treatment of mechanical, thermal, electrical, and magnetic properties of matter and fluorescence, phosphorescence, photoconductivity, and work function; the free-electron model and the band approximation; structures of simple crystals.

PH 482 Selected Topics in Physics and Astronomy. 1 to 3 hours.

Prerequisite: Permission of the instructor.

Topics in physics and astronomy not covered by existing courses. Repeat credit is allowed for different topics.

PH 490 Honors Seminar in Physics. 1 hour.

Prerequisite: Participation in departmental honors program or permission of the instructor.

A seminar course on current topics in physics and astronomy.

PH 491 Advanced Laboratory. 3 hours.

Prerequisite: 15 hours of physics including PH 255.

Two laboratory periods and 1 hour of seminar. Experimental work in modern physics at an advanced level.

PH 493 Introduction to Research. Not to exceed 3 hours.

Prerequisites: Permission of supervising faculty member and approval of the department chairperson.

Credit is by arrangement, but no graduate credit will be awarded for PH 493. Student performs research under supervision of a faculty member.

PH 495 Independent Study I. Not to exceed 3 hours.

Prerequisites: Permission of supervising faculty member and approval of the department chairperson. No graduate credit.

PH 496 Independent Study II. Not to exceed 3 hours.

Prerequisites: Permission of supervising faculty member and approval of department chairperson.

No graduate credit.

POLISH (POL)

Office: 200-D B.B. Comer Hall

POL 101 Elementary Polish I. 3 hours.

Contemporary Polish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

POL 102 Elementary Polish II. 3 hours.

Prerequisite: POL 101 or consent of CLC director.

Contemporary Polish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

POLITICAL SCIENCE (PSC)

Office: 318 ten Hoor Hall

PSC 101 Introduction to American Politics. 3 hours.

Survey of the principles, political institutions, and practices of American national, state, and local politics.

PSC 102 America and the World. 3 hours.

Examination of the political factors external to the United States that affect the American political system. Attention is given to the nature of foreign policy, the processes and substance of American foreign policy, and the ways that actions by foreign governments affect the United States.

PSC 103 Introduction to Public Policy. 3 hours.

Survey of problems encountered by American governmental units in fields such as agriculture, welfare, education, health, and business regulation.

PSC 201 The Scope of Political Science. 3 hours.

Survey of the political processes and institutions of contemporary societies and an introduction to the concepts and concerns of political research.

PSC 202 Political Science Methods. 3 hours.

Introduction to the conduct of political inquiry and methods of political research.

PSC 203 Comparative Politics. 3 hours.

Theoretical approaches to the comparative study of national political systems.

PSC 204 International Relations. 3 hours.

Survey of the evolution of the modern state system and the basic forces in international relations.

PSC 205 Political Theory. 3 hours.

Survey of fundamental concepts in political theory such as liberty, equality, and authority.

PSC 206 Public Administration. 3 hours.

Study of the administrative principles and practices in the areas of organization, personnel management, budgeting, government regulation, and democratic controls.

PSC 211 State and Local Government. 3 hours.

Study of the institutions and functions of American state and local governments and their relationship to the political process.

Unless otherwise stated, the prerequisite for enrollment in 300-level courses is sophomore standing or permission of the instructor.

PSC 311 Political Parties and Elections. 3 hours.

Activities of parties and pressure groups in American politics. Attention is given to the social composition, organization, finance, and nominating processes of parties.

PSC 312 The American Legislative System. 3 hours.

Examination of the constitutional and theoretical foundations of Congress and state legislatures, emphasizing problems of structure, procedure, leadership, and legislative reform.

PSC 313 The American Executive. 3 hours.

Examination of the role of the president, governors, and local executives in the American political system.

PSC 314 The American Judicial System. 3 hours.

Introductory analysis of judicial organization, processes, and behavior, with emphasis on the institutional characteristics of the courts.

PSC 316 Southern Politics. 3 hours.

Examination of the party system of the Southern states in terms of its origin, nature, distribution of power, and impact on national politics.

PSC 318 Constitutional Law: Limits of Government Power. 3 hours.

Prerequisite: PSC 101 and any two courses from those numbered PSC 201-PSC 206 or junior standing.

Study of the constitutional foundations of federalism and the separation of powers, with emphasis on the role of the Supreme Court.

PSC 319 Constitutional Law: Civil Rights and Liberties. 3 hours.

Prerequisites: PSC 101 and two courses from PSC 201-206 or junior standing.

Study of the Constitution's protections for civil rights and civil liberties, and the Supreme Court's interpretations of them.

PSC 320 Special Studies in Political Science. 1 to 3 hours.

Supervised independent reading and research.

PSC 321 Special Topics in Political Science. 3 hours.

Course content varies from offering to offering. May be repeated for a maximum of 12 hours, with permission of the department.

PSC 332 Latin American Political Systems. 3 hours.

Analysis of the contemporary distribution of political power in Latin America. Special attention is given to nation-state building, praetorianism, and revolution.

PSC 333 Soviet and Post-Soviet Politics. 3 hours.

Study of institutions and processes in the USSR and the post-Soviet republics, with attention to concepts of authoritarianism, systemic change, and democratization.

PSC 334 Governments and Politics of Western Europe. 3 hours.

Prerequisite: PSC 203 or permission of the instructor.

Analysis of the democracies of Western Europe. Attention is given to participation, societal cleavages, elections, parties, government institutions, policy making, and the European Union.

PSC 335 Social Movements and Contentious Politics. 3 hours.

Prerequisite: PSC 203 or permission of the instructor.

Examination of social movements. Particular attention will be paid to the impact of movements on political processes.

PSC 342 Foreign Policies of the Soviet Union and Its Successor States. 3 hours.

Examination of the influence of the Soviet Union in the evolution of the international system as well as the interests and strategies of Russia and other successor states.

PSC 343 U.S. Relations with Latin America. 3 hours.

U.S. relations with Latin America since the end of the Cold War—democracy, drug trade, and immigration.

PSC 353 Modern Political Thought: Machiavelli to Nietzsche. 3 hours.

Prerequisite: PSC 205 or PHL 220.

Key political theorists from the sixteenth to the nineteenth centuries. Assigned texts may vary, but typically include works by Machiavelli, Hobbes, Locke, Rousseau, J. S. Mill, Marx, and Nietzsche. Topics include conceptions of a just society, the state, the value of political participation, liberty, and equality.

PSC 361 Fiscal Policy and Budgeting. 3 hours.

Study of governmental revenue and expenditure policies with emphasis on the budget as a method of administrative and fiscal control.

PSC 362 Organization Theory. 3 hours.

Prerequisite: PSC 206 or permission of the instructor.

An examination of traditional and contemporary organizational theory and its application to public administration.

PSC 364 African Americans and the American Political System. 3 hours.

A historical and contemporary assessment of the political, social, and economic development of blacks in the American system.

PSC 399 Internships in Political Science. 3 to 6 hours.

Unless otherwise stated, the prerequisite for 400-level courses is junior standing or higher or permission of the instructor.

PSC 411 Public Opinion. 3 hours.

The formation, distribution, structure, properties, and techniques of measuring public opinions in the United States.

PSC 413 American Foreign Policy. 3 hours.

Examination of the forces and processes affecting United States foreign relations. Attention is also given to the content and problems of contemporary American foreign policy.

PSC 414 American Defense Policy. 3 hours.

Investigation of the processes involved in making American defense and security policy and of the substance of that policy.

PSC 421 Research Design. 3 hours.

Prerequisite: PSC 202.

Attention is given to research design, the role of theory, variance control, measurement, reliability, validity, and sampling; includes an introduction to SPSS.

PSC 422 Seminar in Political Science. 3 hours.

May be repeated for a maximum of 6 hours. Selected problems in various areas in political science.

PSC 423 Survey Research Methods. 3 hours.

Examination of the theory and practice of various types of surveys and different parts of the survey research process (e.g., sampling, questionnaire design, interviewing, data reduction).

PSC 432 Peace Resolution in Latin America. 3 hours.

Analysis of resolution of civil wars in Latin America. Compares Nicaragua, El Salvador, Guatemala and Columbia.

PSC 433 Communism in Europe, 1945–89. 3 hours.

Examination of the interaction of Marxist theory and practice in various national settings. Attention is given to the differential evolution of parties and regimes and to reasons for the dissolution of communist systems.

PSC 434 International Political Economy. 3 hours.

Prerequisite: PSC 204, PSC 413, or EC 111.

The course deals with the international trade and finance regimes, foreign economic policy, transnational corporations in the world economy, North/South and East/West relations, and the implications of economic interdependence.

PSC 435 War and Peace. 3 hours.

Prerequisite: PSC 204 or PSC 413.

Study of the causes of war at the individual, societal, and international levels of analysis, with particular emphasis on international relations research using the scientific method.

PSC 436 Non-Communist Eastern Europe. 3 hours.

An examination of the political issues, processes, and institutions, primarily in the formerly communist states of East-Central Europe.

PSC 437 Postcommunism. 3 hours.

Examination of processes of democratization and reversion to authoritarianism in East Central Europe and Eurasia. Political, social, and economic alterations of communist arrangements are discussed.

PSC 438 Government and Politics of South Asia. 3 hours.

Prerequisite: PSC 203.

Examination of South Asian states. Attention is given to the legacies of colonialism, political institutions, democratization, economic development, political conflict, and regional security.

PSC 441 Terrorism. 3 hours.

Explores the definition and dynamics of domestic and international terrorism, terrorist ideas and terrorist organization, and the political problems of suppressing terrorism.

PSC 442 International Conflict. 3 hours.

Examination of the various kinds of violent conflicts in which nation-states become involved.

PSC 443 Comparative Public Policy. 3 hours.

Prerequisite: PSC 203 or PSC 334.

Analysis of domestic policy in advanced industrialized democracies, looking at both policy process and policy substance. Attention will be given to the questions of how and why policies differ across countries, and how one might evaluate policy performance cross-nationally.

PSC 444 International Organizations. 3 hours.

An examination of the essential structures and processes in international organizations, both governmental and nongovernmental, and their roles in the area of global security, economy, and social welfare.

PSC 445 Nationalism and Ethnic Conflict. 3 hours.

An examination of the theoretical aspects of ethnicity, interethnic conflict, conflict management policies, and some examples of ethnic crises. Prepares students for analyzing interethnic conflicts and critically evaluating proposed solutions to ethnic strife.

PSC 446 Political Economy of Security. 3 hours.

Prerequisite: PSC 204.

The course will cover a variety of topics that link security and political economy.

PSC 452 American Political Thought. 3 hours.

Prerequisite: PSC 205.

Investigates primary sources and secondary literature covering the origin and direction of the U.S. political ideology. Topics typically include liberalism, civic republicanism, and debates between contemporary scholars concerning American exceptionalism.

PSC 462 Public Personnel Administration. 3 hours.

Study of the American public personnel system at the local, state, and national level. Emphasis is on such areas as the political activity of government employees, the application of the principle of equal opportunity and affirmative action, and the role of collective bargaining in government.

PSC 466 Urban Policy. 3 hours.

Examination of urban political structure and its influence on selected areas of public policy in contemporary urban society.

PORTUGUESE (POR)

Office: 200-D B.B. Comer

POR 101 Elementary Portuguese I. 3 hours.

Contemporary Portuguese—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

POR 102 Elementary Portuguese II. 3 hours.

Prerequisite: POR 101 or consent of CLC director.

Contemporary Portuguese—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

POR 201 Intermediate Portuguese I. 3 hours.

Prerequisite: POR 102 or consent of CLC director.

Continuation of Portuguese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.

POR 202 Intermediate Portuguese II. 3 hours.

Prerequisite: POR 201 or consent of CLC director.

Continuation of POR 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of CLC director. Offered according to demand.

PSYCHOLOGY (PY)

Office: 348 Gordon Palmer Hall

PY 101 or PY 105 is a prerequisite for all higher-numbered psychology courses.

PY 101 Introduction to Psychology. 3 hours.

Basic principles of psychology.

PY 105 Honors Introduction to Psychology. 3 hours.

Prerequisite: Membership in University Honors Program or minimum 28 ACT or 1240 SAT.

Honors section of PY 101.

PY 207 Psychology of Adjustment. 3 hours.

Basic principles of mental health and an understanding of the individual models of behavior.

PY 211 Elementary Statistical Methods. 3 hours.

Prerequisite: MATH 100 (or equivalent).

Methods are presented that enable students to make inferences about a population from a knowledge of small samples. Offered each semester and in the summer session.

PY 228 Applied Psychology. 3 hours.

Examination of current uses of psychology.

PY 313 Sensation and Perception. 3 hours.

Physiological and psychophysical aspects of the senses.

PY 352 Developmental Psychology. 3 hours.

Physical, intellectual, emotional, and social development throughout the life span.

PY 355 General Experimental Psychology. 3 hours.

Prerequisite: Grade of "C-" or higher in PY 211.

Corequisite: PY 356.

Scientific methods applied to the problems of psychology.

PY 356 Research Laboratory. 2 hours.

Prerequisite: Grade of "C-" or higher in PY 211.

Corequisite: PY 355.

Application of experimental and statistical techniques in a laboratory setting.

PY 358 Abnormal Psychology. 3 hours.

Etiology, symptomatology, and treatment of the major mental behavioral disorders.

PY 361 Psychology of Learning. 3 hours.

Theoretical and applied implications of principal findings in learning, memory, and cognition.

PY 365 Psychology of Aging. 3 hours.

The intellectual, social, cognitive, and physical development in adulthood with special emphasis on late adulthood.

PY 368 Psychology of Personality. 3 hours.

A study of theories that represent the psychoanalytic, neopsychoanalytic, trait, life span, humanistic, cognitive, behavioral and social-learning approaches to understanding human behavior. Clinical and experimental data are used to evaluate representative personality theories.

PY 371 Psychology of Gender. 3 hours.

Review of the contribution of psychological theories and research to the understanding of sex differences in general and to women's roles in particular.

PY 372 Social Psychology. 3 hours.

Major aspects of social psychology, including aggression, altruism, attitude change, interpersonal relations, prejudice, leadership, and group dynamics.

PY 377 Psychology, Law Violation, and Justice. 3 hours.

Psychological interpretations of criminality, treatment of offenders, and the roles of psychologists and psychological issues in the justice system.

PY 378 Junior Honors Seminar. 3 hours.

Prerequisites: Acceptance in the Psychology Honors Program, PY 101, PY 211, and PY 355.

The course is the first semester of a four-semester honors sequence. Exposure to research methods and opportunities for research within the Department of Psychology.

PY 379 Junior Honors Seminar. 3 hours.

Prerequisite: PY 378.

The course is the second semester of a four-semester honors sequence. Preparation of a research proposal and approval of thesis committee is required.

Unless otherwise stated, the following 400-level courses have as a prerequisite 12 hours in the psychology department, including PY 355 and PY 356.

PY 413 Physiological Psychology. 3 hours.

Prerequisite: One year of biology desirable.

Bodily structures (nervous, muscular, and glandular) underlying behavior.

PY 428 Industrial Psychology. 3 hours.

Application of psychological principles in industrial settings.

PY 451 Supervised Undergraduate Research. 1 to 3 hours.

Prerequisites: Permission and sponsorship of an instructor.

Individual research projects. A maximum of 6 credit hours may be earned in PY 451.

PY 461 Child Psychology. 3 hours.

Prerequisite: PY 355.

Observational and research procedures with infants and young children, with emphasis on operant learning and socialization processes. Suggested for undergraduate seniors.

PY 462 Attitudes and Theories of Persuasion. 3 hours.

Processes of attitude formation in mass media and interpersonal interaction. Topics include attitude structure, attitude-behavior relation, persuasion, and media campaigns.

PY 470 Introduction to Cognitive Psychology. 3 hours.

Contemporary approaches to cognitive psychology, including topics such as attention and memory.

PY 471 History and Systems in Psychology. 3 hours.

Prerequisite: 14 hours of psychology courses.

Systematic points of view in psychology, with a consideration of their historical origins and significance for modern thought.

PY 478 Senior Honors Seminar. 3 hours.

The course is the third semester of a four-semester honors sequence. Implementation of an approved research proposal.

PY 479 Senior Honors Seminar. 3 hours.

The course is the final semester of a four-semester honors sequence. Preparation and defense of senior honors thesis.

PY 481 Readings in Psychology. 1 to 3 hours.

Prerequisites: Permission and sponsorship of an instructor.

Selected supervised readings. May be repeated for a maximum of 6 hours.

PY 491 Seminar in Psychology. 3 hours.

Thorough examination of a selected contemporary psychological area. Different topics are offered each semester; descriptions are available at registration. Offered each semester and in the summer session. May be repeated for a maximum of 6 hours.

PY 495:496 Teaching Internship. 3 hours each semester.

Prerequisites: 21 hours in the department, senior standing, 3.0 GPA in psychology courses, and permission of the PY 101 coordinator and the instructor.

Supervised experience and training in teaching, course administration, etc., as additional preparation for students planning to pursue graduate study in psychology.

READING EDUCATION (CRD)

Professor Miguel Mantero

Office: 201 Graves Hall

Department Head

Students must check program guidelines for their majors before registering for any CRD course marked with an asterisk (*), because admission to the teacher education program may be a prerequisite for such courses.

Enrollment in specific courses in the College of Education may be restricted to students who clearly demonstrate the greatest potential for success as teachers. Factors such as general studies courses completed, GPA, scores on state and program tests, interviews, etc., may be considered.

***CRD 350 Survey of Reading Instruction.** 3 hours.

Introductory course designed to develop the skills, understanding, and decision-making abilities associated with effectively guiding reading activities in grades P-12. The course is intended for students majoring in programs leading to P-12 certification.

***CRD 369 Fundamentals of Reading Instruction.** 3 hours.

Corequisites: CEE 320, BEP 305, BEF 362, MUE 385, and SPE 300. Introduction to literacy development, instruction, and assessment for elementary school children. Foundational concepts of literacy instruction and best-practice are covered. A field component is required.

CRD 400 Teaching Reading to Diverse Learners K-12. 3 hours.

Prerequisites: CRD 369; open to special education majors only.

A foundation in the materials and methods for teaching of reading and language arts K-12, with emphasis on intervention programs, assessment, and instruction for individual and small groups of students. Intensive field experience is required.

***CRD 412 Improving Reading in Secondary Schools.** 3 hours.

Prerequisite: Admission to the teacher education program, CSE 489, BER 450, and appropriate methods course.

Study of methods and strategies for teaching reading at the secondary and junior-college levels. Methods of teaching word attack and comprehension skills are emphasized. Diagnostic techniques, study skills, and teaching reading in the content areas are also covered.

RELIGIOUS STUDIES (REL)

Office: 212-A Manly Hall

REL 100 Introduction to the Study of Religion. 3 hours.

Various methodological approaches to the academic study of religion, with examples of religious life and thought drawn from a variety of cultures. This course is required of all majors and minors.

REL 105 Honors Introduction to the Study of Religion. 3 hours.

Prerequisite: Admission to the University Honors Program or a 3.3 GPA. Honors version of REL 100.

REL 110 Introduction to the Hebrew Bible. 3 hours.

Introduction to the books of the Hebrew Bible in their historical setting, with emphasis on textual analysis and on literary forms and their function and use in the past and present.

REL 112 Introduction to the New Testament. 3 hours.

Introduction to the Hellenistic world of early Christianity, examining the early traditions about Jesus that were organized into the Gospels and the letters of Paul.

REL 124 Religion & Film in America. 3 hours.

Uses film as the way into understanding the religious scene in America—a broad set of ideas, symbols, social movements, and institutions that affect and are affected by the wider American culture.

REL 208 Hinduism. 3 hours.

An historical survey of a major religious tradition of Asia.

REL 210 Buddhism. 3 hours.

An historical survey of the Buddhist traditions of South Asia and East Asia.

REL 213 Sociology of Religion. 3 hours.

Sociological analysis of religion as a cross-cultural institution and its relationship to personality and other social institutions.

REL 220 Survey of Asian Religions. 3 hours.

Introductory survey of the major religious traditions of Asia, including Hinduism, Buddhism, Confucianism, Taoism, and Shinto.

REL 223 Holocaust in Historical Perspective. 3 hours.

Examination of this event, and scholarship on it, from various historical and critical perspectives.

REL 224 Judaism. 3 hours.

A study of some of the leading schools and interpreters of Judaism and a review of modern developments including the Holocaust and the state of Israel.

REL 226 African Diaspora Religions (same as AAST 226). 3 hours.

Examination of African influence throughout the Americas (e.g., Candomblé in Brazil, Vodou in the Caribbean, African American religions in North America), focusing on the interplay between religion, culture, and politics.

REL 228 History of Christian Thought. 3 hours.

The major theological orientations that have shaped Christianity in various social and historical contexts.

REL 231 Religious Existentialism. 3 hours.

Examines answers offered by such writers as Kierkegaard, Dostoevsky, Buber, Weisel, and Tillich, to such questions as: What is the meaning of existence? What is the meaning of my existence? What does it mean to exist authentically in religious terms?

REL 234 Women and Religion (same as WS 234). 3 hours.

The role and place of women in several religious traditions, ancient and modern.

REL 235 Native American Religions. 3 hours.

Surveys the histories, beliefs, and practices of Native American religions as found in various geographical regions throughout the Americas (e.g., the Aztecs, Lakota, Muskogee, Cree, and Hopi).

REL 236 Islam. 3 hours.

An introduction to the traditions of Islam, including their history, texts, intellectual debates, and contemporary practices.

REL 237 Self, Society, and Religions. 3 hours.

A survey of psychological and social theories used to study religion, drawing on different cultural and historical data of relevance to the approaches surveyed.

REL 238 Philosophies of Judaism. 3 hours.

Survey of major philosophical formulations of the nature and role of Jews and Judaism, written by select Jewish thinkers.

REL 240 Portraits of the Apocalypse in Contemporary Films. 3 hours.

Examines contemporary portrayals of the end times in popular films.

REL 241 Historical Overview of Religions in America. 3 hours.

A survey of religions in America from before European colonization to the present.

All REL upper-level classes require junior standing or permission of instructor; to guarantee their spot in the class, REL majors and minors are advised to obtain a permit from the department to enroll in an upper-level course.

REL 311 English Bible as Literature (same as WL 363). 3 hours.

Analytical and critical study of a number of books of the Bible; each book is examined and evaluated as an example of a particular literary genre.

REL 321 Religion and Identity in South Asia. 3 hours.

Investigates the intersections of various social divisions and identities with religious labels and practices by analyzing case studies from South Asia.

REL 332 Contemporary Jewish Thought. 3 hours.

Examination and analysis of modern Jewish reformulations of divinity, revelation, redemption, election, etc., in critical contrast to classical Jewish and Greek traditions.

REL 335 Psychology of Religion (same as PY 334). 3 hours.

Examination of religious beliefs, behaviors, and institutions by the application of psychological theories.

REL 340 Nietzsche and Religion. 3 hours.

Examines the major writings on religion of Friedrich Nietzsche (1844-1900), with special attention to the relationship between religion, rhetoric, language, culture, and power.

REL 341 Theories of Myth. 3 hours.

Examination of the history of differing theories of myth, conceived as a subtype of narrative.

REL 347 Jewish-Christian Relations. 3 hours.

Critical examination of the 2,000-year-old relationship focusing on areas of commonality and difference.

REL 360:361 Individual Directed Research: Student Topics. 3 hours.

Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 370 Advanced Studies in Religion in Culture. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 371 Advanced Studies in American Religions. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 372 Advanced Studies in Middle Eastern and European Religions. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 373 Advanced Studies in Asian Religions. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 410 Religion and Genocide. 3 hours.

Explores the phenomenon known as genocide by examining its relationship to the religion in both its institutional and theological frameworks.

REL 419 Myth, Ritual, and Magic (same as ANT 419). 3 hours.

Examination of the theories and methods used to study the relations between religious narrative and behavioral systems.

REL 420 Gospel of Mark. 3 hours.

Investigates the Gospel of Mark through the lens of contemporary biblical, literary, and cultural criticism.

REL 440 Theories of Religion. 3 hours.

Examines classic and contemporary theories of religion such as functionalism, structuralism, Marxism, and psychoanalysis. Emphasis may vary with each offering.

REL 460:461 Individual Directed Research: Student Topics. 3 hours.

Supervised research of the student's choice. May be repeated for a maximum of 9 hours for differing topics. Speak with the professor before registering.

REL 480 Seminar in Religion in Culture. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 481 Seminar in American Religions. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 482 Seminar in Middle Eastern and European Religions. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 483 Seminar in Asian Religions. 3 hours.

Specific context will be determined by faculty responsible for the course that semester. May be repeated for a maximum of 9 hours for differing topics.

REL 490 Capstone Senior Seminar. 3 hours.

A seminar offered spring semester of each year for seniors pursuing a major or minor in religious studies or minor in Judaic studies. The professor and subject of the seminar rotate through the four areas of the curriculum. Required of all majors and minors in the Department. May be repeated for a maximum of 9 hours for differing topics.

RESTAURANT, HOTEL, AND MEETINGS MANAGEMENT (RHM)

Dr. Roy Maize, Program Director

Office: 204 Doster Hall

RHM 175 Introduction to Hotel, Restaurant, and Hospitality Management. 3 hours.

Introduction to the theory, functions, and principles of management in the restaurant, food service, and lodging industry. Examination of basic operational systems and problems related to the industry.

RHM 241 Management of Food and Beverage Operations. 3 hours.

Prerequisite: RHM 175.

Course focuses on how to profitably manage a food service operation in order to satisfy guests. Students learn how to give guests the highest priority as the details of food and beverage operations are planned, implemented, and evaluated.

RHM 251 Hospitality Employee Supervision and Management.

3 hours.

Prerequisite: RHM 175.

Focuses on information managers need in order to recruit, select, and train employees; increase productivity; control labor costs; effectively communicate; manage conflict and change; and use time management techniques.

RHM 280 Facilities Management. 3 hours.

Prerequisite: RHM 175.

Explains how to handle engineering and maintenance concerns in lodging properties. Covers all major facility systems. Explains how to understand and speak the language of vendors, suppliers, and maintenance/engineering staff; reduce expenses; and increase the efficiency of a hospitality operation's systems.

RHM 285 Food Safety and Risk Management. 3 hours.

Prerequisite: RHM 175.

Principles and techniques used in managing sanitation, safety, and security functions in food service and lodging operations. Outlines sanitation and risk management programs that help hospitality operations provide quality products and services, comply with regulations, and improve the bottom line.

RHM 286 Professional Development for Hospitality Managers. 1 hour.

Prerequisite: RHM 175.

Provides students with new and diverse experiences to increase their understanding of the restaurant, hotel and meetings management program. Class discussions, assigned readings, lectures, tours, and presentations by RHM faculty.

RHM 303 Managing for Quality in the Hospitality Industry. 3 hours.

Prerequisite: RHM 175.

Designed to acquaint students with quality and leadership issues facing today's hospitality industry. Students learn the principles of the Malcolm Baldrige National Quality Award, the concepts of continuous improvement,

quality service, power and empowerment, communication skills, goal setting, teams, diversity, and managing organizational change. Writing proficiency is required for a passing grade for this course.

RHM 313 Contemporary Club Management. 3 hours.

Prerequisite: RHM 175.

Introduces students to the unique world of private club management. Focus on issues club managers face on a daily basis.

RHM 321 Tourism and the Hospitality Industry. 3 hours.

Prerequisite: RHM 175.

Explores the broad range of factors that influence and affect tourism. Includes research and marketing methods.

RHM 325 Lodging Operations and Management. 3 hours.

Prerequisite: RHM 175.

Systematic approach to front-office and housekeeping management procedures. Emphasis is on reservations, billing and collection, housekeeping, and maintenance operations.

RHM 332 Front Office Management. 3 hours.

Prerequisite: RHM 175.

Introduces concepts of front-office management that affect other operating departments. Discusses techniques in managing the front office to ensure operational goals are attained.

RHM 338 Rooms Division Management. 3 hours.

Prerequisite: RHM 175.

Students learn principles involved in the management of the rooms division of a hotel property from maintaining quality staff, planning, and organizing to the technical details of cleaning each area of the property.

RHM 355 Hospitality Industry Training. 3 hours.

Prerequisite: RHM 175.

Student learns how to develop, conduct, and evaluate one-on-one and group training that will reduce turnover, improve job performance, and help the hospitality organization attain its operational goals and objectives.

RHM 356 Human Resources Management. 3 hours.

Prerequisite: RHM 175.

Explains how to meet the requirements of various labor laws, to include the Americans with Disabilities Act (ADA), as well as other employment and workplace laws. Explores strategies for attracting a wide range of applicants, minimizing turnover, and reducing productivity losses.

RHM 370 Marketing of Hospitality Services. 3 hours.

Prerequisite: RHM 175.

Students learn how to use proven marketing techniques to improve business. Course explores the development, implementation, and evaluation of a marketing plan.

RHM 375 Managing Catering Operations. 3 hours.

Prerequisite: RHM 175.

Theory and techniques of professional catering with hands-on activities involved with the planning, organizing, and implementation of special catered events.

RHM 377 Restaurant Management and Service. 3 hours.

Prerequisite: RHM 175.

Principles and methods of producing and serving quality food in restaurants. Writing proficiency is required for a passing grade in this course.

RHM 380 Convention and Trade Show Management. 3 hours.

Prerequisite: RHM 175.

A comprehensive analysis of trade shows. Emphasis is on organizing, arranging, and operating trade shows and conventions. Visits to trade shows are required. Writing proficiency is required for a passing grade in this course.

RHM 390 Great Hotels in Alabama. 3 hours.

Students increase their understanding of the hotel industry through visits to Great Hotels in Alabama. Course includes class discussion, lecture tours, and presentations by leading hotel executives.

RHM 387 Hotel/Motel Security Management. 3 hours.

Prerequisite: RHM 175.

Exploration of security issues, concerns and practices affecting hospitality properties. Covers the physical security of the property asset protection, guest protection, security equipment, emergency management and procedures, and OSHA requirements.

RHM 420 Hospitality Marketing. 3 hours.

Prerequisite: RHM 175.

Students learn how to create a sales team with creative, successful sales and marketing programs. Includes discussion on ways to sell rooms and food and beverage services to business and leisure travelers, travel agents, and meeting planners. Writing proficiency is required for a passing grade in this course.

RHM 421 Hospitality Law. 3 hours.

Prerequisite: RHM 175.

Students gain an understanding of potential legal problems and how important legal considerations can affect the hospitality industry. Legal cases related to the hospitality industry are explored.

RHM 446 Hospitality Purchasing. 3 hours.

Prerequisite: RHM 175.

Students learn how to purchase major commodities and nonfood supplies, ensuring price and product quality. Course explains how to deal effectively with suppliers and includes the managerial aspects of purchasing.

RHM 448 Bar and Beverage Management. 3 hours.

Prerequisite: RHM 175.

Discussion on strategies to profitably manage the bar and beverage department of the hospitality operation. Covers control systems, hiring and training, responsible alcohol service, and essential information on a wide range of beverage products.

RHM 468 Practicum in Hospitality Management. 1 to 4 hours.

Prerequisite: Permission of advisor.

Student work experience in a hospitality operation. 1 credit hour for each 250 hours of work experience.

RHM 469 Internship in Hospitality Management. 4 hours.

Prerequisites: Permission of advisor.

A semester of work experience in an approved hospitality organization for a minimum of 600 hours. Students work full-time during the semester to gain insight into hospitality management responsibilities.

RHM 470 Hospitality Industry Computer Systems. 3 hours.

Prerequisite: RHM 175

Explores hospitality computer technology and the management of information systems. Discussion of applications for all functional areas, including reservations, rooms, food and beverage, sales and event management and accounting.

RHM 474 Managerial Accounting for the Hospitality Industry. 4 hours.

Prerequisites: RHM 175, AC 210 or equivalent

Students learn how to make effective managerial, business, and operational decisions based on a thorough understanding of financial statements; identify costs; develop realistic budgets; forecast; and plan cash flow.

RHM 478 Managing Service in Food and Beverage Operations.

3 hours.

Prerequisite: RHM 175.

Explores requirements in planning for and managing different types of food and beverage operations.

RHM 479 Convention Management and Service. 3 hours.

Prerequisite: RHM 175.

An exploration of techniques used to increase a hospitality property's convention and meeting business through marketing and service. Students learn how to address meeting planners' needs and concerns confidentially, creatively, and effectively.

RHM 480 Advanced Meeting and Convention Management. 3 hours.

Prerequisite: RHM 175

Reviews the interdependent functions of meetings and convention management. The student develops and executes a professional meeting.

RHM 485 ExRHM Foundations Seminar. 3 hours.

Prerequisite: Admission to the ExRHM program.

Seminar designed for students accepted in the executive restaurant and hospitality management (ExRHM) program.

RHM 486 ExRHM Current Issues in Hospitality Management. 3 to 9 hours.

Prerequisite: Admission to the ExRHM program.

Students explore a variety of issues of importance to the effective management of hospitality organizations. Topics vary according to needs of students and issues facing the hospitality industry.

RHM 488 ExRHM Individual Seminar Projects. 3 to 12 hours.

Prerequisite: Admission to the ExRHM program.

Individual projects designed by students to implement concepts and strategies learned in executive seminars. Project plans must be approved by RHM faculty prior to implementation.

RHM 490 Directed Individual Study. 1 to 6 hours.

Prerequisites: RHM 175, senior standing, and permission of advisor.

RHM 495 ExRHM Capstone Senior Project. 12 hours.

Prerequisite: Admission to the ExRHM program.

A required major learning experience for ExRHM students. Project is designed by the student to include research, analysis, and synthesis of a particular topic related to hospitality industry operations. Project must be approved by RHM faculty prior to implementation.

RHM 496 Hotel, Restaurant and Convention Management Seminar.

1 hour.

Prerequisites: Senior standing and declared major in restaurant and hospitality management.

Discussion of current issues in the hotel, restaurant, and convention industries.

RHM 499 Undergraduate Research. 3 hours.

Under faculty supervision, the student participates in a research project.

RUSSIAN (RUS)

Office: 210 B.B. Comer Hall

The course level at which students begin their study of Russian is determined by several factors. These factors include the following: the number of high-school units completed; language placement examination scores; or, for those with native or heritage competency, faculty evaluation.

Level Placement Criteria

RUS 101	No prior instruction in Russian, fewer than two high-school units in Russian, instruction more than four years ago, or UA placement test
RUS 102	UA credit for RUS 101 or UA placement test
RUS 201	Credit for RUS 102 or UA placement test
RUS 202	Credit for RUS 201 or UA placement test
RUS 300	Credit for RUS 202 or UA placement test

Course titles repeated with two different course numbers indicate two-semester sequences. Usually, the lower-numbered course in these sequences is offered in the fall semester and the higher-numbered course in the spring semester.

RUS 101 Elementary Russian I. 4 hours.

This course introduces students to the basics of Russian: alphabet, pronunciation, elementary vocabulary, and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.

RUS 102 Elementary Russian II. 4 hours.

Prerequisite: RUS 101 or language department placement.

This course builds upon the foundation established in RUS 101 and continues with the acquisition of elementary vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. The class meets five times per week.

RUS 201 Intermediate Russian I. 3 hours.

Prerequisite: RUS 102.

This course builds upon the foundation established in RUS 101 and RUS 102 and continues with the acquisition of intermediate level vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course introduces students to short literary texts.

RUS 202 Intermediate Russian II. 3 hours.

Prerequisite: RUS 201.

This course builds upon the foundation established in RUS 101, RUS 102, and RUS 201 and completes the acquisition of basic vocabulary and grammar. The course emphasizes the acquisition of reading, listening, and speaking skills by the student. This course continues the use of short literary texts and introduces students to higher-style literary forms.

RUS 211 Study Tour of Russia. 3 hours.

A tour of Moscow, St. Petersburg, and other cities of the former Soviet Union. Focus is on Russia's art and architecture and on the diverse peoples of the former U.S.S.R. and their way of life. Students who have studied Russian have an opportunity to use it.

RUS 223 Nineteenth-Century Russian Literature in Translation (same as WL 223). 3 hours.

Pushkin, Gogol, Dostoevsky, Turgenev, Tolstoy, Chekhov, and other authors. No knowledge of Russian is required. Offered every other year, usually in the fall semester.

RUS 224 Twentieth-Century Russian Literature in Translation (same as WL 224). 3 hours.

Nabokov, Gorky, Babel, Solzhenitsyn, Shukshin, and other authors. No knowledge of Russian is required. Offered every other year, usually in the spring semester.

RUS 251 Russian Culture. 3 hours.

Topics may include geography, law, science, agriculture, literature, sports, cinema, peasants, icons, the Russian Orthodox Church, Ukrainian Easter egg art and other folk art and crafts, foreign policy, food and cooking, entertainment, etc. No knowledge of Russian is required. Usually offered in the fall semester.

RUS 252 Russian Folklore. 3 hours.

Introduction to the epic heroes, water nymphs, wood demons, house spirits, witches, vampires, etc., of Russian folklore that still form a key part of modern Russian culture. No knowledge of Russian is required.

RUS 270 Special Topics. 3 hours.

Topics will vary. No knowledge of Russian is required.

RUS 309 Advanced Russian Conversation I. 3 hours.

Prerequisite: RUS 202 or RUS 112.

Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.

RUS 310 Advanced Russian Conversation II. 3 hours.

Prerequisite: RUS 309.

Practice in speaking modern Russian. Emphasis is on active response based on aural comprehension of the language.

RUS 325 Dostoevsky. 3 hours.

The life and works of Fyodor Dostoevsky. No knowledge of Russian is required.

RUS 326 Tolstoy. 3 hours.

The life and works of Leo Tolstoy. No knowledge of Russian is required.

RUS 351 Russia to 1894 (same as HY 361). 3 hours.**RUS 352 Russia and the Soviet Union since 1894** (same as HY 362). 3 hours.

Crisis in Russian society and the coming of the Revolution; the emergence of Stalinism, and political developments since World War II, including the disintegration of the Soviet system.

RUS 361 Advanced Russian Grammar and Composition I. 3 hours.

Prerequisite: RUS 202 or RUS 112.

The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.

RUS 362 Advanced Russian Grammar and Composition II. 3 hours.

Prerequisite: RUS 361.

The study of new grammatical concepts reinforced by translation from English to Russian and by the composition of short essays in Russian on a variety of topics.

RUS 401 Directed Readings. 3 hours.

Prerequisites: RUS 309 and RUS 310, RUS 361 and RUS 362, or permission of the instructor.

RUS 402 Directed Readings. 3 hours.

Prerequisite: RUS 309 and RUS 310, RUS 361 and RUS 362, or permission of the instructor.

RUS 425 Readings in the Russian Press. 3 hours.

Prerequisite: RUS 310 or RUS 362.

Topics of current interest, such as the social sciences, the economy, the environment, medicine and health, and the arts. Development of passive vocabulary.

RUS 426 Readings in Russian History. 3 hours.

Prerequisites: RUS 362.

This course introduces students to advanced texts in Russian thematically focused on Russian history.

RUS 427 Business Russian. 3 hours.

Prerequisite: RUS 310 or RUS 362.

Acquisition of business Russian used in commercial transactions. Emphasis is on business letters and business conversation.

RUS 440 Russian Phonetics. 3 hours.

Prerequisite: RUS 310, RUS 362, or permission of the instructor.

Linguistic analysis of the Russian sound system in conjunction with practice in Russian pronunciation.

SANSKRIT (SAN)

Office: 200-D B.B. Comer Hall

SAN 101 Elementary Sanskrit I. 3 hours.

Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

SAN 102 Elementary Sanskrit II. 3 hours.

Prerequisite: SAN 101 or consent of CLC director.

Ancient Sanskrit, spoken and written. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook and listen to assigned audio materials (CDs, or computer sound files). Students have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Offered each semester.

SECONDARY CURRICULUM, TEACHING, AND LEARNING (CSE)

Associate Professor Lisa Scherff
Program Coordinator

Office: 204 Carmichael Hall

Enrollment in specific courses in the College of Education may be restricted to students who clearly demonstrate the greatest potential for success as teachers. Factors such as general studies courses completed, GPA, scores on state and program tests, interviews, etc., may be considered.

CSE 390 Instruction and Accommodation in Secondary Schools.

3 hours.

Corequisites: CSE 493 and BEF/BEP 360.

The course focuses on evaluating teaching and learning behaviors and on general teaching competencies.

CSE 392 Evaluation of School Structure and Organization. 1 hour.

Corequisite: CSE 390.

Observation and participation experiences in a secondary school, with focus on school structure and organization. Successful completion of this course requires spending five full days in approved educational settings.

CSE 401 Technologies for Teaching Secondary Math. 3 hours.

Prerequisite: ST 260 and MATH 227.

The course examines and explores various classroom technologies for specifically teaching secondary mathematics topics, including but not limited to spreadsheets, hand-held and computer graphing technologies, dynamic geometry software, computer algebra systems, and data collection devices. Offered fall semester only.

CSE 406 Curriculum in Secondary Mathematics. 3 hours.

Prerequisites: CSE 401 and admission to the teacher education program in secondary mathematics.

Future secondary mathematics teachers examine advanced concepts, structures, and procedures that comprise secondary mathematics. This course focuses on current issues and trends in the curriculum, teaching, and learning of secondary mathematics with emphasis on the investigation and implementation of current reform efforts. Offered spring semester only.

CSE 455 Literature for Adolescents. 3 hours.

Study of contemporary literature for young adults, with emphasis on high-interest and high-quality literature from diverse authors.

CSE 469 Pedagogical Grammar. 3 hours.

This is a practical course intended to enhance the student's understanding of the structure of the English language. The course is designed to encourage a thorough study of grammar and its role in the English language arts curriculum, to explore the psycholinguistic nature of language processes, and to develop methods of instruction for the classroom.

CSE 470 Teaching Writing 6-12. 3 hours.

Prepares prospective and current English language arts teachers for the successful teaching of composition in grades 6-12 in an era of timed writing and writing in high-stakes situations. This course includes teaching narration, description, exposition, and argumentation; the writing process; and the evaluation of student writing.

CSE 476 Improving Science Teaching through New Technologies.

3 hours.

Prerequisite: CAT 100.

Examination and evaluation of appropriate technologies for the secondary science curriculum. Technologies will include CD-ROM and Internet-based simulations and databases, Web pages and other Internet resources, multimedia presentations, and calculator-based laboratories.

CSE 479 Teaching Secondary School English. 3 hours.

Prerequisite: Admission to the teacher education program.

Corequisite: CSE 489.

Methods and media essential to effective instruction of English in the secondary school.

CSE 480 Teaching Secondary School Foreign Languages. 3 hours.

Prerequisite: Admission to the teacher education program.

Corequisite: CSE 489.

Theories, methods, techniques, and essential media for teaching foreign languages effectively in the secondary school. Offered fall semester only.

CSE 483 Teaching Secondary School Mathematics. 3 hours.

Prerequisite: Admission to the teacher education program.

Corequisite: CSE 489.

The course presents primarily methods and instructional strategies of teaching mathematics, but necessarily includes a study of selected topics in mathematics. Offered fall semester only.

CSE 486 Teaching Secondary School Science. 3 hours.

Prerequisite: Admission to the teacher education program.

Corequisite: CSE 489.

Instructional strategies and media essential to effective learning of science in the secondary school. Content includes objectives, inquiry teaching, analysis of curricula, assessment, teaching for diversity, science-thinking skills, unit planning, and laboratory management. Offered only fall semester.

CSE 487 Teaching Secondary School Social Science. 3 hours.

Prerequisite: Admission to the teacher education program.

Corequisite: CSE 489.

This course will use a reflective teaching model for examining the history, issues, and contemporary practices related to teaching middle- and high-school social science.

CSE 489 Clinical Experiences in Secondary Schools. 3 hours.

Prerequisites: PY 101, SS 121, or equivalent, and admission to TEP.

Corequisite: Appropriate methods course.

Observation and participation experiences in secondary schools.

CSE 493 Diversity Block Seminar. 1 hour.

Corequisites: CSE 390 and BEF/BEP 360.

A reflective teaching model will be used to explore differences in race, class, gender, and academic achievement as they affect classroom interaction and academic success.

CSE 497 Secondary School Internship. 9–12 hours.

Prerequisites: Senior standing, admission to the teacher education program, teaching methods course in the major, and the minimum GPA as required by each certification program or teaching field.

Observation and teaching of the major subject in the secondary school.

Offered fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experiences. Formal application meetings are held and their times will be posted in Graves Hall and announced in the *Crimson White* prior to the meetings.

SOCIAL SCIENCES (SS)

Office: 201 Lloyd Hall

SS 121 Introduction to Social Sciences. 3 hours.

An introduction to the social sciences, organized into modules taught by professors from different social science disciplines. Topics may include anthropology, sociology, criminal justice, psychology, history, economics, and political science.

SOCIAL WORK (SW)

Javonda D. Williams, Chairperson

Office: 116 Little Hall

SW 100 Introduction to the Fields of Social Work Practice. 3 hours.

An overview of the many and varied roles in which social workers function in today's society. Reviews the historical development of the profession and its various fields of practice and the profession's code of ethics, and covers current national and local issues. Fifteen hours of volunteer work outside of class are required. Required course for social work majors and social welfare minors; open to all University students, but freshmen and sophomores preferred. Offered in the fall and spring semesters.

SW 101 Orientation to Social Work. 1 hour.

The purpose of this course is to orient new social work majors to the School of Social Work (SSW) to promote student academic success. Emphasis is on the advising process and establishing an educational plan, professional etiquette, steps in applying for admission to the professional program, the BSW program's writing proficiency exam, and campus resources.

SW 200 History of Social Welfare in the United States. 3 hours.

Study of the general institutional basis of social welfare: its structure, function, historical development, and the philosophical bases of the provision of social welfare services. Offered in the fall and spring semesters.

SW 206 Growing Old in America. 3 hours.

Provides information about the aging process and the position of older persons in American society.

SW 208 Juvenile Delinquency: Causes, Control, and Services. 3 hours.

Examination of the nature and extent of delinquency. Theories of causation and the structure and function of courts are explored. Emphasis placed on prevention, control, and interventions with juvenile offenders and their families.

SW 210 Family and Child Welfare. 3 hours.

Examines the current situation in services for children and families. Gives an overview of services designed to strengthen families, as well as those that provide substitute care of children when the family is unable to meet this responsibility.

SW 212 Death, Dying, and Bereavement. 3 hours.

Analysis of a variety of issues and problems presented by death, dying, and grief in American culture, with some comparison to other cultures. Examines attitudes and responses to death and the perspectives of children and adults.

SW 300 Special Topics. 3 hours.

Prerequisite: Sophomore standing or permission of the instructor. May be repeated for a total of 6 hours with permission of undergraduate program chair. Examination of an important topic in contemporary social work. Topic varies from semester to semester.

SW 310 Professional Writing. 1 hour

As clear and effective communication skills are necessary for social service delivery, this pass/fail course assists students with acquiring/improving professional writing skills.

SW 320 Volunteering in Human Services. 3 hours.

The nature and development of volunteerism in human services in the United States plus current trends in the use of volunteers is discussed. Each student is assigned to a human service agency in order to experience the role of being a volunteer.

SW 345 Traumatic Stress in Social Work: Education, Practice, Policy, and Research. 3 hours.

This course addresses posttraumatic stress and secondary traumatic stress. It includes theory, empirical research, and social work interventions.

SW 351 Oppression and Social Injustice. 3 hours.

Prerequisite: Sophomore standing.

Examines oppression and social injustices which are pertinent to social functioning and to the profession of social work. Offered in the fall and spring semesters.

SW 401 Social Welfare Policy and Services. 3 hours.

Prerequisites: SW 200 with a grade of "C" or higher, and either admission to the professional program or declared minor in social welfare.

Seeks to develop ability to analyze programs and policies. Alternatives to present policies are explored.

SW 410 Human Behavior and the Social Environment I. 3 hours.

Prerequisites: Admission to the professional program or declared minor in social welfare, and SW 100, BSC 108 or BSC 109, PY 101, and SOC 101. This is the first course in a two-semester sequence that traces the course of human growth and development through the entire life cycle. Emphasis is placed on understanding the individual in interaction with major social systems. Offered in the fall semester only.

SW 411 Human Behavior and the Social Environment II. 3 hours.

Prerequisite: SW 410 with a grade of "C" or higher.

A continuation of SW 410. Offered in the spring semester only.

SW 414 Chemical Dependency. 3 hours.

Prerequisite: Senior standing.

This course will introduce the student to major theories of addiction as well as the physiological and psychological results of substance abuse. State and federal policies regarding control of drugs, alcohol, and tobacco will also be discussed. The effects of chemical dependency on special populations, including ethnic minorities, people of color, gays and lesbians, dually diagnosed, the elderly, and women will be reviewed.

SW 419 International Social Development. 3 hours.

The purpose of this class is to expose the students to the wide range of international development issues, the contemporary debates on those issues, and the people involved in those debates. Students will gain a deeper understanding of international development challenges and opportunities. The areas of concentration will include: global health development, governmental and non-governmental development agencies, the role of

social work in development, environmental politics, world hunger, poverty, land use, and globalization.

SW 420 Research for Social Work Practice. 3 hours.

Prerequisites: Senior standing in the School of Social Work and satisfactory completion of statistics requirement.

Corequisites: SW 443 and SW 490.

Basic research methods for social work. Focuses on role of research in building knowledge and on application of findings and techniques to generic social work practice. Offered only in the fall semester.

SW 437 Forensic Social Work. 3 hours.

This course is designed to introduce students to forensic social work, defined by the National Association of Forensic Social Workers as "the application of social work to questions and issues relating to law and legal systems, both criminal and civil."

SW 440 Social Work Practice with Individuals and Families. 3 hours.

Prerequisite: Admission to the professional program.

Provides the student with the opportunity to gain knowledge, understanding, and competence needed for intervention in working with individuals and families at the beginning professional level. Offered in the fall semester only.

SW 441 Social Work Practice with Groups. 3 hours.

Prerequisites: SW 351 and SW 440 with a grade of "C" or higher and admission to the professional program.

The student is taught the fundamentals of group process, method, and content, and is prepared for social work practice with groups at the beginning professional level. Offered in the spring semester only.

SW 442 Social Work Practice with Communities. 3 hours.

Prerequisites: SW 351 and SW 440 with a grade of "C" or higher and admission to the professional program.

Prepares students to secure resources for clients in the community setting. Application of problem solving to improving community life. Offered in the spring semester only.

SW 443 Seminar in Generalist Practice. 3 hours.

Prerequisites: SW 401, SW 411, SW 441, and SW 442 with a C- or higher.

Corequisites: SW 420 and SW 490.

Required course designed to accompany field placement. Seeks to assist students in integrating foundation content with field experience, with emphasis on generalist practice. Offered only in the fall semester.

SW 490 Field Education. 9 hours, pass/fail.

Prerequisites: SW 401, SW 411, SW 441, and SW 442 with a C- or higher.

Corequisite: SW 420 and SW 443.

Planned field experience in which the student is placed in a community service agency for a minimum of 32 hours a week, working under the joint instruction of the agency and the School of Social Work. For senior social work majors only. Offered in the fall semester only.

SW 498 Independent Study. 2–6 hours.

An opportunity for individual students or groups of students to assume liberal responsibility for developing their own learning objectives in conjunction with a faculty member who has expertise in the area, and for pursuing these objectives in relation to a social welfare program or function. By permission of the instructor, program chair, and associate dean. Permission must be obtained during the preceding semester.

SOCIOLOGY (SOC)

Office: 432-C Farrah Hall

SOC 101 Introduction to Sociology. 3 hours.

Introduction to the scientific study of human social behavior.

SOC 202 Analysis of Social Problems. 3 hours.

Study of contemporary social problems, including definition, description, and analysis. Emphasis is on social change perspectives and cultural complexity.

SOC 205 Social Psychology. 3 hours.

Not open to students who have earned credit in PY 372. Study of the interrelationships between the individual and the group. Includes perception, cognition, attribution, attitudes, helping behavior, aggression, personal relationships, prejudice, and gender in social life. Also includes aspects of applied social psychology.

SOC 210 Juvenile Delinquency. 3 hours.

Extent and patterns of delinquency; its development in individuals and gangs; group therapy with delinquents; and juvenile courts, training schools, probation, and aftercare supervision.

Unless otherwise specified, SOC 101 is a prerequisite for all 300- and 400-level sociology courses.

SOC 300 Research Methods. 3 hours.

Theoretical and specific instruction in both the conduct and application of research methods in criminal justice settings. Includes problems of research and policy dimensions of both direct and applied approaches.

SOC 301 Social Statistics (same as CJ 381). 3 hours.

Prerequisite: MATH 110 or MATH 112. Elementary statistical techniques applied to sociological data; tables and graphs, central tendency and dispersion, probability and sampling, tests of significance, and measures of association.

SOC 302 Sociological Theory. 3 hours.

The course will provide a review of the major systems of thought about society. Special emphasis is given to historical context and philosophical background as they relate to the development of sociological theories. Students will be introduced to view points and idea about how society functions, the role of conflict in society and the forces of social change.

SOC 315 Race and Ethnic Relations. 3 hours.

Analysis of American social structure, race and ethnic relations, and demographic and institutional trends; studies of racial and ethnic issues.

SOC 350 Criminology. 3 hours.

Theories of criminality, types of delinquent and criminal behavior, crime causation, crime control by police, and the criminal courts.

SOC 352 Social Inequality (same as AAST 352 and WS 352). 3 hours.

Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

SOC 360 Sociology of HIV/AIDS. 3 hours.

Study of the social dimensions of HIV/AIDS. Discussions cover how HIV/AIDS is socially constructed in terms of gender, sexualities, race/ethnicity, and social class.

SOC 390 Special Topics in Sociology. 3 hours.

The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; Latin American life; small-group dynamics; environmental sociology; medical sociology.

SOC 404 Health and Crime (same as CJ 404). 3 hours.

The health consequences of social deviance and the impact of criminalization for individual and societal well-being. Seminar discussions cover the criminalization of mental and physical illness and illnesses arising from criminal behavior and incarceration.

SOC 405 Gender and Society. 3 hours.

A sociological approach to the study of women and men, focusing on the social construction of gender in institutions and in every life, feminist theories and theories of masculinity, gender inequality, and social change.

SOC 444 Environmental Sociology (same as GY 453). 3 hours.

Sociological analysis of environmental issues including the background of environmental issues, population, planning, limits to growth, food and energy resources, and social impacts of environmental alterations.

SOC 450 Sociology of Law (same as CJ 483). 3 hours.

Study of social origin and consequences of law and legal process; analysis of social factors that determine legal outcomes.

SOC 460 Body Politics. 3 hours.

Study of how human bodies are politicized in modern society. Discussions cover how the human body is politically constructed according to gender, race/ethnicity, occupation, and social class.

SOC 470 Social Movements. 3 hours.

Exploration of the mobilization of social movements in specific periods of time in terms of the socioeconomic and political conditions.

SOC 490 Seminar in Sociology. 3 hours.

The course may be taken a total of four times, with different topics. Social behavior; science, technology, and society; advanced deviant behavior; juvenile delinquent behavior; Latin American life; small-group dynamics; environmental sociology; medical sociology.

SPANISH (SP)

Office: 219 B.B. Comer Hall

The course level at which students begin their study of Spanish is determined by several factors. These factors include the following: the number of high-school units completed; language placement examination scores; or, for those with native or heritage competency, faculty evaluation.

Level Placement Criteria

SP 101	No prior instruction in Spanish, fewer than two high-school units in Spanish, instruction more than four years ago, or UA placement test
SP 102	UA credit for SP 101
SP 103	Two high-school units of Spanish or SP 101 at another institution
SP 201	Credit for SP 102 or SP 103 or UA placement test
SP 202	Credit for SP 201 or UA placement test
SP 300	Credit for SP 202 or UA placement test

SP 101 Introductory Spanish I. 4 hours.

Five hours of instruction per week. The course is the first semester of college-level study of Spanish. Offered each year.

SP 102 Introductory Spanish II. 4 hours.

Prerequisite: SP 101 with a grade of "C-" or higher at UA.

Continuation of written and oral skills in Spanish. Five hours of instruction per week. The course is the second semester of college-level study of Spanish. Conducted in Spanish. Offered each year.

SP 103 Intensive Review of Elementary Spanish. 4 hours.

Prerequisite: Two or more high-school units of Spanish or Introductory Spanish I at another university.

Five hours of instruction per week. Intensive review and accelerated study of Spanish language at the first- and second-semester college level. Conducted in Spanish. Offered each year.

SP 201 Intermediate Spanish I. 3 hours.

Prerequisite: SP 102, SP 103, or placement.

Review and development of grammar and syntax; development of speaking, reading, and writing skills.

SP 202 Intermediate Spanish II. 3 hours.

Prerequisite: SP 201 or two years of high-school Spanish.

Review and development of grammar and syntax; development of speaking, reading, and writing skills.

SP 353 Spanish Conversation. 3 hours.

Prerequisite: SP 202 or three years of high-school Spanish.

The course is also offered in Spain as SP 352; it is not open to native speakers. Oral drills, pronunciation exercises, and simple oral reports. Offered each semester.

SP 356 Advanced Grammar and Composition. 3 hours.

Prerequisite: SP 202 or three years of high-school Spanish.

The course is also offered in Spain as SP 354. Review of Spanish grammar with emphasis on written expression in Spanish. Offered each semester.

SP 360 Commercial Spanish. 3 hours.

Prerequisite: SP 353 or SP 356.

Spanish business vocabulary and practices. Offered in the spring semester.

SP 361 Introduction to Romance Linguistics (same as FR 361 and IT 361). 3 hours.

Prerequisite: Any 202-level foreign language course, or equivalent language proficiency and permission of the instructor. Credit for this course is not applicable toward the requirements of the Spanish major or minor.

SP 364 Spanish Civilization. 3 hours.

Prerequisite: SP 353 and SP 356 or permission of the instructor.

The course is also offered in Spain as SP 363. Study of Spanish artistic heritage and social and political institutions. Offered in the fall semester.

SP 366 Spanish-American Civilization. 3 hours.

Prerequisites: SP 353 and SP 356, or permission of the instructor.

Study of the development of Spanish-American civilization from pre-Colombian times to the present. Offered in the spring semester.

SP 367 Technical Writing. 3 hours.

Prerequisite: SP 353 or SP 356.

Teaches students how to understand and write documents in technical areas usually not taught in conventional language courses. Emphasis on written expression. Students will practice and improve knowledge of Spanish grammar and syntax.

SP 371 Survey of Spanish Literature. 3 hours.

Prerequisites: SP 353, SP 356, and SP 364 (or SP 366); or permission of the instructor.

Study of major works in Spanish literature from the Middle Ages through the 18th century. SP 371 and SP 372 offered in alternate semesters.

SP 372 Survey of Spanish Literature. 3 hours.

Prerequisites: SP 353, SP 356, and SP 364 (or SP 366); or permission of the instructor.

Spanish literature from the 19th century to the present. Readings from important authors, lectures, reports, and analysis. SP 372 and SP 371 offered in alternate semesters.

SP 375 Masterpieces of Spanish-American Literature I. 3 hours.

Prerequisites: SP 353, SP 356, and SP 364 (or SP 366); or permission of the instructor.

Study of selected great works in the development of Spanish-American literature from the colonial period to modernism. Offered in the fall semester.

SP 376 Masterpieces of Spanish-American Literature II. 3 hours.

Prerequisite: SP 353, SP 356, and SP 364 (or SP 366); or permission of the instructor.

Study of selected great works of Spanish-American literature from modernism to the present. Offered in the spring semester.

SP 390 Open Topics. 3 hours.

Prerequisites: SP 356 and permission of the instructor.

Special studies on topics related to Spanish language, literature, and culture. The content of the course varies from semester to semester. A maximum of 6 credit hours may be earned in SP 390.

SP 422 Nineteenth-Century Spanish Poetry and Theatre. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, or SP 376.

Important dramatists and poets of the period and their works; lectures, discussions, and reports. Offered in alternate years.

SP 426 Twentieth-Century Spanish Literature II. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, or SP 376 or permission of the instructor.

Reading and discussion of complete texts representative of the literary movements of the period; lectures and reports. Offered in alternate years.

SP 484 Spanish Phonetics. 3 hours.

Prerequisites: SP 353 and SP 356 and two of the following: SP 371, SP 372, SP 375, or SP 376 or permission of the instructor.

Introduction to Spanish phonetics with emphasis on the development of correct pronunciation and basic phonetic transcription. Offered in the spring semester.

SP 488 Open Topics in Spanish Peninsular Literature. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or permission of the instructor.

Topics vary, and the course may be repeated for credit. Offered according to demand.

SP 489 Open Topics in Spanish-American Literature. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or permission of the instructor.

Topics vary, and the course may be repeated for credit. Offered according to demand.

SP 490 Open Topics. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or permission of the instructor.

Topics vary, and the course may be repeated for credit. Offered according to demand.

SP 491 Cervantes. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or permission of the instructor.

In-depth study of Don Quixote. Offered in the fall semester.

SP 493 Sixteenth-Century Peninsular Literature. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or permission of the instructor.

Reading and discussion of selected works of the period. Offered in alternate years.

SP 494 Seventeenth-Century Peninsular Literature. 3 hours.

Prerequisites: SP 353, SP 356, and two of the following: SP 371, SP 372, SP 375, SP 376, or permission of the instructor.

Reading and discussion of selected works of the period. Offered in alternate years.

SPECIAL EDUCATION AND MULTIPLE ABILITIES (SPE)

Enrollment in specific courses in the College of Education may be restricted to students who clearly demonstrate the greatest potential for success as teachers. Factors such as general studies courses completed, GPA, scores on state and program tests, interviews, etc., may be considered.

SPE 100 Exceptional Lives in Society. 3 hours.

Introduction and overview for non-education majors regarding characteristics of diversity, exceptionailities, and social/behavioral issues in the 21st century. A service learning project experience, to be arranged outside the Tuscaloosa educational community, that exposes students to diverse populations is included. Through Web-based readings/critiques, class lecture, and service learning opportunities, participants in this course will explore diverse populations from within the context of characteristics, issues and trends, cultural differences, and research. This course meets Social/Behavioral Sciences core requirements. Offered fall and spring semesters.

SPE 272 Introduction to Pre-K Education. 3 hours.

This course offers an introduction to Pre-K education as part of the Tuscaloosa Pre-K initiative. An overview of development, guidance, and curriculum planning will be included. Laboratory/practicum participation in a Pre-K classroom will be required.

SPE 300 Survey of Special Education and Accommodation Strategies. 3 hours.

Characteristics of all exceptionailities, and educational and behavioral adaptations for exceptional children in the general education classroom. A practicum experience that acquaints students with exceptionailities is included. Offered each semester.

SPE 302 Educational Diagnostic Measurement. 3 hours.

Introduction to group and individual assessments used for evaluating student learning and for planning instruction. Emphasis is on appropriate test selection and use of results.

SPE 304 Instructional Strategies in Special Education. 3 hours.

Addresses curriculum planning and selection of instructional tasks, with emphasis on making decisions that facilitate learning in students with disabilities.

SPE 326 Instructional Sign Language I. 3 hours.

Introduction to the culture of the deaf community and to the sign language continuum, providing a knowledge base from which students can communicate with the deaf and hard of hearing in the school setting.

SPE 374 Parenting Children. 3 hours.

Explores the role of families in the educational process and how professionals work with families. Offered fall semester.

SPE 382 Teaching Thinking Skills. 3 hours.

Prerequisite: At least one methods course.

An overview of the dimensions of thinking skills with a focus on practical instructional techniques for special and regular education programs. Includes detailed training in models for teaching thinking skills that result in improved student and teacher thinking.

SPE 414 Collaboration and Consultation. 3 hours.

Examination of the ways in which individuals interact with educational systems, communities at large, and each other to bring about appropriate educational services for students with special educational needs. Included are fundamentals of group process, human behavior and interaction, and motivation, as well as skills and knowledge necessary for successful collaboration and consultation with others concerned with education of students who present exceptional needs.

SPE 416 Instructional Strategies for Students with Severe Disabilities. 3 hours.

Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in education settings for children with severe disabilities. Emphasis is placed on educational programming, subject matter, professional responsibilities of teachers and related service personnel, curriculum development, physical management of children with severe disabilities, adaptation of materials and equipment, and modification of programs in varied settings (clinical, homebound, hospital, public schools).

SPE 435 Behavior Management. 3 hours.

The course addresses the development of models for managing behavior, to help teachers prevent or deal with emotional conflict in the classroom.

SPE 471 Developmental Perspectives of Young Children with Disabilities. 3 hours.

A course introducing the field of early childhood special education, including its rationale and legal issues. Offered fall semester.

SPE 476 Assessment of Young Children. 3 hours.

Prerequisites: SPE 471 and admission to the teacher education program. Basic principles and practices involved in the assessment and evaluation of young children. Offered spring semester.

SPE 477 Differentiated Academic Instruction. 3 hours.

Prerequisites: SPE 471, SPE 476, and admission to TEP. This course examines the nature of content area teaching in science and social studies for very young children. It provides opportunities to develop knowledge and skills in lesson and unit planning, pedagogy, kinds of materials, and evaluation of learning.

SPE 478 Methods of Teaching Young Children with Disabilities. 3 hours.

Prerequisites: SPE 471.

Curriculum methodology materials and management technology for young children with disabilities.

SPE 479 Internship in Early Childhood Special Education. 9–12 hours.

Prerequisites: Completion of all methods courses, admission to the teacher education program, a minimum GPA of 2.75 for all work attempted, and a minimum GPA of 2.5 in the major.

A semester of supervised teaching experience in classrooms for young children. Offered fall and spring semesters only. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experiences. Formal application meetings are held and their times will be posted in Graves Hall and announced in the *Crimson White* prior to the meetings.

SPE 491 Educational Methods for Mild Learning and Behavior Disorders—Elementary. 3 hours.

Prerequisites: SPE 302, SPE 304, and admission to the teacher education program.

Designed to develop skill in the use of curriculum, materials, and management strategies with elementary school students who have mild learning and behavior disabilities. Offered fall semester.

SPE 492 Educational Methods for Mild Learning and Behavior Disorders—Secondary. 3 hours.

Prerequisites: SPE 302, SPE 304, and admission to the teacher education program.

Designed to develop skill in the use of curriculum, materials, and management strategies with secondary school students who have mild learning and behavior disabilities. Offered fall semester.

SPE 493 Introduction to Severe/Profound Disabilities. 3 hours.

Designed to assist students in the development of knowledge and skills to enhance their abilities to make reflective decisions and facilitate positive exchange in educational settings for child/youth with severe/profound disabilities. Practicum required.

SPE 499 Internship in Special Education. 9 to 12 hours.

Prerequisites: Completion of required core and major program courses, admission to the teacher education program, and a GPA of 2.5 or higher. Fourteen-week split internship providing supervised teaching experience in elementary and secondary classrooms. Student teaching is only offered during the spring semester, unless written permission is secured from the department head. Student teaching cannot be completed during the summer term. Application for student teaching must be made the semester prior to student teaching (excluding summer term) through the Office of Clinical Experiences. Formal application meetings are held and their times will be posted in Graves Hall and announced in the *Crimson White* prior to the meetings.

STATISTICS (ST)

Dr. Mike Conerly, Department Chair

Office: 300 Alston Hall

Students interested in majoring in statistics should follow Option II of the Program in Operations Management.

In addition to completing the specific prerequisites included in the descriptions of the following courses, all students seeking to enroll in 300- or 400-level courses in the Culverhouse College of Commerce and Business Administration must have attained junior standing (61 semester hours).

All C&BA students must, prior to seeking to enroll in any 300- or 400-level C&BA course, complete or be enrolled in the following prerequisites: EC 110 and EC 111; MATH 112 and MATH 121, or MATH 115 and MATH 125; CS 102; AC 210; ST 260; and LGS 200 (or their equivalents); and at least 4 hours in natural science, 3 hours of fine arts, literature, or humanities, and 3 hours of history or social and behavioral sciences. Failure to fulfill all prerequisites prior to enrolling in a 300- or 400-level C&BA course will result in administrative disenrollment from that course.

ST 260 Statistical Data Analysis. 3 hours.

Prerequisites: CS 102 and MATH 112 or equivalents.

Introduction to the use of basic statistical concepts in business applications. Topics include extensive graphing; descriptive statistics; measures of central tendency and variation; regression, including transformations for curvature; sampling techniques; designs; conditional probability; random variables; probability distributions; sampling distributions; confidence intervals; and statistical inference. Computer software applications are utilized extensively. Emphasis throughout the course is on interpretation.

ST 310 Intermediate Statistical Methods. 3 hours.

Data-analysis course in which students use statistical methods to gather, analyze, and interpret data. Coverage of topics is more complete than in introductory courses.

ST 410 Concepts of Probability. 3 hours.

Prerequisite: MATH 126.

Fundamental concepts and theory of probability. Sample spaces, random variables, probability distributions, moments and moment-generating functions, and sampling distributions.

ST 411 Statistical Inference. 3 hours.

Prerequisite: ST 410 or MATH 355 or equivalent.

Theory of point and interval estimation, hypothesis testing, chi square tests, correlation, regression, and analysis of variance. Includes some applications.

ST 450 Statistical Methods in Research I. 3 hours.

Development of fundamental concepts of organizing, exploring, and summarizing data; probability; common probability distributions; sampling and sampling distributions; estimation and hypothesis testing for means, proportions, and variances using parametric and nonparametric procedures; power analysis; goodness of fit; contingency tables. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on methods and on selecting proper statistical techniques for analyzing real situations.

ST 451 Statistical Methods in Research II. 3 hours.

Prerequisite: ST 450 or ST 260.

Analysis of variance and design of experiments, including randomization, replication, and blocking; multiple comparisons; correlation; simple and multiple regression techniques, including variable selection, detection of outliers, and model diagnostics. Statistical software packages are used extensively to facilitate valid analysis and interpretation of results. Emphasis is on appropriate analysis of data in real situations.

ST 452 Applied Regression Analysis. 3 hours.

Prerequisite: ST 260, ST 450.

Modeling issues for multiple linear regression are discussed in the context of data analysis. These include the use of residual plots, transformations, hypothesis tests, outlier diagnostics, analysis of covariance, variable selection techniques, weighted least squares, and collinearity. The uses of logistic regression are similarly discussed for dealing with binary-valued independent variables.

ST 465 Sampling Techniques. 3 hours.

Prerequisite: ST 260 or equivalent.

Planning, execution, and evaluation of sample surveys. Simple, random, stratified, and cluster sampling; multistage and systematic sampling; questionnaire design; cost functions; and optimal designs. Teams plan, perform, and analyze actual sample surveys.

ST 491 Independent Study in Statistics. 1-3 hours.

Students may earn degree credit for only one independent study course (491).

ST 492 Internship. 1-3 hours.

Prerequisites: Junior or senior standing and a grade point average of 2.5 or higher. Students may earn degree credit for only one internship (492).

Students are selected through a competitive process for assignments in approved business or public-sector organizations. The internship is administered through the C&BA Office of Student Services.

ST 497 Special Topics. 3 hours.

SWAHILI (SWA)

Office: 200-D B.B. Comer Hall

SWA 101 Elementary Swahili I. 3 hours.

Contemporary Swahili—speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of the CLC director. Offered each semester.

SWA 102 Elementary Swahili II. 3 hours.

Prerequisite: SWA 101 or consent of CLC director.

Contemporary Swahili—speaking, reading, and writing. Course involves self-instructional approach in the Critical Languages Center. Students are required to study the textbook. Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

SWA 201 Intermediate Swahili I. 3 hours.

Prerequisite: SWA 102 or equivalent (need consent of CLC director).

Continuation of Swahili language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

SWA 202 Intermediate Swahili II. 3 hours.

Prerequisite: SWA 201 or equivalent (need consent of CLC director).

Continuation of SWA 201. Emphasis is on the development of reading skills and writing proficiency. Offered according to demand. Not repeatable without permission of the CLC director.

SWEDISH (SWED)

Office: 200-D B.B. Comer Hall

SWED 101 Elementary Swedish I. 3 hours.

Contemporary Swedish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

SWED 102 Elementary Swedish II. 3 hours.

Prerequisite: SWED 101 or consent of CLC director.

Contemporary Swedish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

SWED 201 Intermediate Swedish I. 3 hours.

Prerequisite: SWED 102 or consent of CLC director.

Continuation of Swedish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

SWED 202 Intermediate Swedish II. 3 hours.

Prerequisite: SWED 201 or consent of CLC director.

Continuation of SWED 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

TELECOMMUNICATION AND FILM (TCF)

Dr. Gary A. Copeland, Chairperson

Office 484 Phifer Hall

A student majoring in telecommunication and film must make a "C-" or higher in all courses required in the major. Students who enroll in 300- or 400-level TCF courses must have grade point averages of 2.0 or higher.

TCF 100 Introduction to Telecommunication. 3 hours.

The impact of the public, the government, advertising, and the media industry on the formation and current operation of all aspects of telecommunication in the United States.

TCF 112 Motion Picture History and Criticism. 3 hours.

Development of the cinema, with emphasis on relation of technical advances to film content and style.

TCF 145 Media Production. 3 hours

Prerequisite: None

Through lectures and hands-on projects, students will learn the equipment and techniques used in media production and editing. Open to non-majors, TCF Management majors, and TCF Critical Studies majors. NOT open to TCF Media Production or TCF Documentary majors.

The following courses require the indicated prerequisites, or permission of the instructor. Students must pass TCF 100 with a "C-" or better before taking any other TCF course.

TCF 201 Intro to Video Production. 3 hours. (P)

Prerequisite: TCF 100; MC 101

Introduces students to theories and techniques of video production and post-production. Topics include script formatting, camera technique, lighting, sound, and editing. In this hands-on course, students will produce short video projects that emphasize technical proficiency and visual storytelling.

TCF 215 Writing and Presentation for Telecommunication. 3 hours.

Prerequisite: TCF 100.

Study of and practice in techniques and skills used in writing and presenting scripts, copy, and professional reports as required by telecommunication media.

TCF 241 The Documentary Form. 3 hours.

The documentary as an informative and persuasive means of communication. Analysis and discussion of selected documentaries.

TCF 287 Symposium. 1 hour. (May be repeated)

Visiting professional's series on various topics.

TCF 288 News Shadowing Internship. 1 hour.

Prerequisite: TCF 100 and consent of instructor

Provides students with an opportunity to follow media professionals on the job, and discover career requirements before beginning the news sequence.

TCF 289 Telecommunication and Film Topics. 3 hours.

Study/analysis of topics in telecommunication and film; subjects vary with instructor.

TCF 301 Intro to Audio Production. 3 hours. (P)

Prerequisite: TCF 201

This course examines sound recording and audio post-production. Students will learn the basics of microphone properties, microphone placement, recording techniques, editing, and sound design.

TCF 305 Telecommunication Audience Analysis. 3 hours.

Prerequisites: TCF 100 and completion of core curriculum mathematics requirements.

Study of methods used in gathering information about telecommunication audiences. Analysis, interpretation, and application of information to decision making in electronic media.

TCF 310 Telecommunication Programming. 3 hours.

Prerequisite: TCF 100.

Program planning, development, and strategies for radio and television stations, networks, cable systems, and syndication.

TCF 311 Critical Studies in Television. 3 hours.

Prerequisite: TCF 100.

Critical analysis of television programs and commercials. Examples are presented for study and evaluation.

TCF 312 Advanced Videography. 3 hours. (P)

Prerequisite: TCF 201

In this hands-on intensive production workshop, students will develop their creative vision, aesthetic eye, and technical skill to help materialize their ideas on screen. Topics include digital video cameras, framing, composition, camera movement, and lighting techniques.

TCF 315 Scriptwriting. 3 hours.

Prerequisites: TCF 100 and TCF 215.

Introduction to writing scripts for television and film. Emphasis includes both the creative and technical aspects.

TCF 321 Announcing/Performance for Radio and Television. 3 hours.

Prerequisite: TCF 100.

Practical approach to techniques and practices necessary for effective appearances on electronic media. Emphasizes copy interpretation, interview skills, and studio performance for microphone and camera.

TCF 331 Introduction to Reporting for News, Sports, and Entertainment. 3 hours.

Prerequisite: TCF 100.

Introduction to the preparation and presentation of news, sports, and entertainment for the electronic media.

TCF 332 Electronic News Fundamentals. 3 hours.

Prerequisites: TCF 100 and junior standing.

Elements of news reporting for the electronic media, with focus on radio writing, reporting, and performance.

TCF 333 Advanced Electronic News. 3 hours.

Prerequisite: TCF 332.

Examination, preparation, and presentation of news for the electronic media. Activities include writing, electronic news gathering, reporting, and anchoring.

TCF 334 Electronic News Operation. 3 hours.

Prerequisite: TCF 333.

Operation of broadcast/cable news department, with practical application, analysis and discussion of problems.

TCF 335 New Media. 3 hours.

Prerequisite: TCF 333 or TCF 145.

Preparation and presentation of news and sports for new media outlets, including internet formats.

TCF 340 International Cinema. 3 hours.

Prerequisite: TCF 112.

Study of motion pictures produced throughout the world. Subjects may change each time course is offered. Writing proficiency is required for a passing grade in this course.

TCF 351 Commercial Production. 3 hours. (P)

Prerequisites: TCF 100, TCF 201, and TCF 215, or consent of instructor.

This course offers students the opportunity to combine their knowledge and skills in creating and producing broadcast commercials. Students will be involved in all stages of the process from research and development of scripts to production and postproduction of finished commercials and final presentation of the finished product.

TCF 357 Production Management. 3 hours.

Study of and practice in techniques and skills used in organizing location shoots for television, film, documentaries, and commercials.

TCF 361 Introduction to Postproduction. 3 hours. (P)

Prerequisite: TCF 201.

In this project-driven course, students will learn and practice non-linear video editing principles and techniques, media management, sound design, and digital theory.

TCF 367 Advanced Production Management. 3 hours

Prerequisite: TCF 357

Advanced study and practice in the skills needed for successful production management, including professional software. Emphasis placed on critical-thinking, problem-solving, and team building exercises.

TCF 380 Independent Study. Variable credit (1 to 3 hours).

Prerequisite: Written permission of department chairperson and faculty project advisor, obtained before computer registration.

Investigative studies in telecommunication and film. May be repeated.

TCF 387 TCF Internship. Variable credit (1 to 3 hours).

Prerequisites: Written permission of the internship coordinator, obtained before computer registration; TCF 200-level production class, or TCF 333; 60 hours or more earned; and a GPA of 2.5 or higher in the major. Supervised field experience in approved operations in the telecommunication and film industries. No more than 3 hours credit for TCF 387 may be applied toward a degree.

TCF 389 Telecommunication Applied Topics. 3 hours.

Prerequisite: TCF 100. (Prerequisites may vary with topics.) Study of contemporary practices in the electronic media industries, with emphasis on analysis and understanding of their practical aspects. Topics vary with instructor.

TCF 390 Electronic Media Sales. 3 hours.

Prerequisite: TCF 100.

Understanding prospective clients' businesses; knowledge and application of audience research; application of the marketing model; understanding of effective media mix and advertiser buying influences; assessment of competitive advantages; written presentations.

TCF 398 Production Crew. Variable Credit. (1-3 hours, may be repeated up to 3 hours credit)

Prerequisite: TCF 201

This course gives students the opportunity to work hands-on, crewing for senior production projects. Students will apply for crew positions including production assistants, gaffer, grip, sound mixer, director of photography, camera operator, and various other positions. Students can enroll for 1 credit hour but must apply for 2 or 3 credit hour positions.

The following courses may be taken if 18 required hours in any TCF sequence have been completed (excluding minors), or with the permission of the instructor.

TCF 401 Corporate and Institutional Media. 3 hours. (P)

Prerequisite: TCF 100, TCF 201, and (1) 300-level TCF Production Course.

Study of non-broadcast media systems used within corporations and organizations for training, communications, sales, public relations, and instruction. Topics include production techniques; instructional design for video/multimedia; distribution methods; budgeting and management; and careers in corporate media.

TCF 411 Seminar in Critical Studies in Television. 3 hours.

Advanced study of selected topics in television criticism.

TCF 412 Screen Directing. 3 hours.

Prerequisite: TCF 201 and one additional production class; GPA of 2.0 or higher.

Advanced instruction in directing for television and film with an emphasis on directing actors, blocking for the camera, and narrative production techniques. Course includes the production of short fiction projects on digital video.

TCF 420 Telecommunication Effects. 3 hours.

Study of individual and social effects of electronic mass media, with emphasis on research results. Writing proficiency is required for a passing grade in this W-designated course.

TCF 433 Broadcast News Analysis. 3 hours.

Historical and critical study of electronic-media news in the United States. Writing proficiency is required for a passing grade in this W-designated course.

TCF 437 Specializations in Production Management. 3 hours

Examines the special requirements needed for production managers in areas outside the standard television or film production. Topics may include animation, gaming, and documentaries.

TCF 438 Producing. 3 hours

Examines the economic structures and business practices used by the entertainment industry. This includes development, contract law, financing, distribution, pitching, and negotiating with Guilds and Unions.

TCF 440 Seminar in American Cinema. 3 hours.

Study of selected topics in United States film. Writing proficiency is required for a passing grade in this W-designated course.

TCF 441 Documentary Production. 3 hours. (P)

Prerequisite: TCF 201 and one (1) additional production course.

This course guides students through the design, pre-production planning, production, postproduction and subsequent evaluation of individual and group documentary project(s). Instruction topics include contemporary visual storytelling, cinematic philosophies, ethical issues, research, funding, and distribution.

TCF 442 Capstone Video Projects. 3 hours (P)

Prerequisites: 18 hours in TCF and permission of the instructor.

The application of advanced production skills, including directing, videography, editing, and production management, in the production of a polished, short-subject film on digital video. Students work in groups over the course of the semester, shepherding film project from preproduction to exhibition.

TCF 443 Multimedia Production. 3 hours. (P)

Prerequisite: TCF 201 and one (1) additional production course.

The study of media practices in the digital age, emphasizing current and new media technologies such as video for the Web, videoblogging, podcasting, YouTube, and other media-enhanced social networking platforms. In this course, students will study media theory and produce several short multimedia projects that will be shared on the web.

TCF 444 Seminar in Telecommunication/Film Topics. 3 hours.

Analysis of contemporary issues in the broadcasting, cable, and/or motion picture industries, including social aspects. Topics vary with instructor.

TCF 445 Telecommunication Media Management. 3 hours.

Study of broadcast station and network organization, cable systems, decision-making processes, and research techniques.

TCF 446 Seminar in Public Broadcasting. 3 hours.

History, development, and utilization of public broadcasting.

TCF 447 Telecommunication History and Systems. 3 hours.

Comparative study of world telecommunication models and delivery systems.

TCF 448 Telecommunication Policy and Law. 3 hours.

Organizational structures and processes that formulate and apply laws and regulations shaping broadcast, cable, satellite, and new electronic media operations. Analysis of national policies and standards and their relationship to regional and international controls and practices.

TCF 449 Cable Television and New Technologies (previously TCF 475). 3 hours.

Prerequisite: TCF 100.

Overview of the history of the cable television industry and operation of contemporary cable systems. Survey of selected other contemporary electronic media systems, such as communication satellites, wireless cable, cellular telephones, high-definition video, etc.

TCF 451 Advanced Television Production. 3 hours. (P)

Prerequisites: TCF 100, TCF 201, TCF 215, a 300-level TCF production course, and consent of instructor.

Students will receive instruction and practical experience in the development of programming for television, including research, planning and budgeting for series productions. Students will produce small and large group projects for broadcast and follow the projects from concept through the completion.

TCF 455 Political Campaigns. 3 hours.

Prerequisite: TCF 100 or PSC 101.

Theoretical and practical approach to political campaigns and elections.

TCF 461 Advanced Postproduction. 3 hours. (P)

Prerequisites: TCF 201 and 1 additional production course..

Further instruction in nonlinear editing with emphasis on special effects, motion graphics, and advanced editing techniques.

487 Telecommunication and Film Honors Colloquium. 3 hours.

Prerequisites: Telecommunication and film major; 74 or more hours earned with overall GPA of 3.3 or higher.

Offers advanced TCF majors (others by instructor permission) an enhanced analysis of contemporary issues in telecommunication.

TCF 490 Capstone Production Projects I (3 hours)

Prerequisite: Permission of instructor.

In this course students will have the opportunity to develop a short narrative, documentary, experimental, music video, television or multimedia project that they will produce the following term. In this seminar, students will workshop their ideas from first draft to a shooting-ready production binder. Topics include script revisions, budgeting, casting, rehearsing, scheduling, scouting, legal issues and release forms, shot list, storyboard, shooting script breakdowns, and hiring key crew positions.

TCF 491 Capstone Production Projects II (3 hours)

Prerequisite: TCF 490

Students produce and edit short senior projects developed in TCF 490. Students will develop their skills directing the camera, working with talent, working with the crew, staying on schedule and budget and see their projects through the post-production and distribution phase. By the end of the term students will have a fine cut and a press kit for their project.

THAI (THAI)

Office: 200-D B.B. Comer Hall

THAI 101 Elementary Thai I. 3 hours.

Contemporary Thai—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

THAI 102 Elementary Thai II. 3 hours.

Prerequisite: THAI 101 or consent of CLC director.

Contemporary Thai—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

THAI 201 Intermediate Thai I. 3 hours.

Prerequisite: THAI 102 or consent of CLC director.

Continuation of Thai language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

THAI 202 Intermediate Thai II. 3 hours.

Prerequisite: THAI 201 or consent of CLC director.

Continuation of THAI 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

THEATRE (TH)

Office: 115 Rowand-Johnson Hall

TH 113 Voice and Diction. 3 hours.

Credit for this course will not be awarded to students majoring or minoring in theatre. A beginning course designed to assist the student in improving use of his or her voice and speech. Offered each semester and in the summer session.

TH 114 Introduction to Theatre. 3 hours.

This course does not satisfy the fine arts requirement for theatre majors. Introduction to the theatre through the study of plays and production techniques.

TH 115 Beginning Acting. 3 hours.

Credit for this course will not be awarded to students majoring or minoring in theatre. Training in the basic elements of the actor's craft. Additional hours in related theatre activities may be required.

TH 120 Principles of Stage Design. 3 hours.

An introduction to the various areas of theatrical design and technology, including but not limited to scenery, costumes, lighting, sound, and makeup.

TH 140 Stage Movement I: Foundations of Expressive Movement. 3 hours.

Prerequisite: Theatre major or minor, or permission of the instructor.

Course in the use of the actor's body as an expressive tool; body/spatial sensory awareness, structure and alignment, stage presence and gesture.

TH 141 Acting I. 3 hours.

Prerequisite: Theatre major or minor.

The course is designed to introduce the beginning student to the art and craft of acting.

TH 165 Musicianship for Musical Theatre Performance I. 3 hours.

Prerequisites: Permission of the instructor.

A course in basic musical theatre skills, including sight-singing, playing keyboard instruments, singing in harmony, phonetic transcription, and audition techniques. May be repeated for a maximum of 6 hours.

TH 166 Musicianship for Musical Theatre Performance II. 3 hours.

Prerequisites: TH 165.

A continuation of TH 165, featuring more advanced work in sight-singing, keyboard, ensemble singing, and audition techniques. May be repeated for a maximum of 6 hours.

TH 174 Musical Theatre Voice. 1 to 2 hours.

Prerequisite: Theatre majors only and acceptance into musical theatre track.

Private voice lessons.

TH 213 Intermediate Acting. 3 hours.

Credit for this course will not be awarded to students majoring or minoring in theatre. Introduction to character development through scene study. Additional hours in related theatre activities may be required.

TH 220 Fundamentals of Stage Scenery. 3 hours.

Required lab. Survey of the techniques for building, rigging, and painting scenery for various forms of production. Emphasis is on scenery for the legitimate stage.

TH 230 Stage Makeup. 2 hours.

Prerequisite: Theatre major or permission of the instructor.

Required lab. Principles of and practical work in all types of stage makeup.

TH 231 Costume Construction I. 3 hours.

A studio course in basic patterning, cutting, and construction techniques. Additional hours in related theatre activities may be required.

TH 233 Beginning Costume Design. 3 hours.

Prerequisite: TH 120 or permission of the instructor.

An introductory course implementing the principles of design as related to costumes.

TH 240 Stage Movement II: Expressive Movement and Physical Character. 3 hours.

Prerequisites: Theatre major or minor and TH 140, or permission of the instructor.

Use of the physical instrument in the creation and exploration of character and other performance situations. Advanced body-use and movement skills.

TH 241 Beginning Voice and Speech for Performance. 3 hours.

Prerequisite: Theatre major or minor, or permission of the instructor.

A beginning course in the proper use of the vocal instrument for performance.

TH 242 Acting II: Introduction to Scene Study. 3 hours.

Prerequisite: TH 141 and permission of the instructor.

Characterization and textual analysis approached through classroom rehearsals of scenes from modern plays.

TH 245 Teaching Theatre: Performance. 3 hours.

Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include acting, directing, choosing plays for production, and rehearsal techniques.

TH 246 Teaching Theatre: Play Production. 3 hours.

Survey of the practical and theoretical knowledge necessary to teach theatre. Topics include speech, dramatic literature, children's drama, costuming, scenery, and playwriting.

TH 290 Theatre Practicum. One half hour.

Prerequisite: Theatre major or minor.

Participation in University Theatre productions. Assignments in scenery, lighting, properties, sound, costuming, publicity, rehearsal and performance, etc. (Maximum 2 hours).

TH 291 Beginning Theatre Practicum. One half hour.

Prerequisite: Theatre major or minor.

Participation in University Theatre productions through a rotation of assignments in the scene shop, costume shop, box office, deck crews and performance. May be repeated for a maximum of 1 hour.

TH 320 Intermediate Technical Production. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.

Study of the planning and execution of scenery through analysis of production-related problems dealing with static forces in the technical design of rigging and construction.

TH 322 Fundamentals of Stage Lighting. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.

Required lab. Survey of materials and techniques employed in executing stage lighting for both the legitimate stage and television.

TH 324 Lighting, Sound and Stagecraft for Dancers. 3 hours.

Prerequisite: Dance Major.

A technical production course specifically for dance majors covering the practical aspects of theatre technology.

TH 351 American Music Theatre History (same as AMS 351). 3 hours.

This course provides students with a review of the historical genres, circumstances and catalogue of material that developed the American musical theatre from its minstrel beginnings to the multi-million-dollar spectacles of today.

TH 361 Beginning Directing. 3 hours.

Prerequisites: TH 141 and TH 120 or TH 220.

Study of the principles and techniques of directing plays. Additional hours of related theatre activities are required.

TH 365 Fundamental of Stage Management. 3 hours.

Prerequisites: TH 120 or TH 220, and TH 141.

The study of the professional stage manager's process: preparing and running rehearsal and performance, conflict resolution and general responsibilities as defined by Actor's Equity Association. Required production element outside of class.

TH 374 Advanced Musical Theatre Voice. 1 to 2 hours.

Prerequisites: Four hours of TH 174, a passing grade on the sophomore qualifying exam, and/or permission of the instructor.

Private voice lessons.

TH 390 Theatre Practicum II. One half hour.

Prerequisite: TH 290 (2 hours).

Participation in University theatre productions. Assignments in scenery, costumes, lighting, sound, management, rehearsal, performance, etc.

TH 391 Intermediate Theatre Practicum. One half hour.

Prerequisite: TH 291 (1 hour).

Participation in University Theatre production in the area(s) of your preference (availability permitting.) Opportunities in scenery, lighting, properties, sound, costuming, publicity, musical theatre, stage management and performance, etc. May be repeated for a maximum of 1 hour.

TH 415 Properties Construction. 3 hours.

Prerequisites: TH 120 or TH 220, or permission of the instructor.

A studio course introducing the multitude of techniques used by the props artisan to create hand props, furniture, and other set dressings.

TH 420 Technical Direction. 3 hours.

Prerequisites: TH 220 and TH 423.

This is a hands-on course that puts the student in the role of carpenter, welder, rigger, manager, and problem solver. The main purpose of the class is to prepare the student for the highest leadership role in the technical process.

TH 421 Period Decor. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.

Survey of period architecture and ornament as they apply in research for productions.

TH 422 Scene Design. 3 hours.

Prerequisite: TH 120 or TH 220, or TH 423.

A studio course exploring the process and techniques of scene design. Students will design three to five plays.

TH 423 Hand Drafting for the Theatre. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.

A studio course exploring techniques of hand drafting as applied to stage design and technical direction. Skills learned will include orthographic and isometric projections, ground plans, sections, perspective drawing, and layout.

TH 424 Advanced Scene Design. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.

A studio course in drafting, drawing, and painting techniques for the stage designer.

TH 425 Scene Painting. 3 hours.

Prerequisite: TH 120 or TH 220.

A studio course in the materials and techniques for painting stage scenery and properties. A materials fee is required.

TH 426 Sound Production Techniques for Theatre and Dance. 3 hours.

Prerequisite: Permission of the instructor.

The course provides the student with a working knowledge of sound production. It emphasizes the creation of sound tapes for theatre and dance, and the setup and maintenance of sound reproduction and modification equipment.

TH 427 AutoCAD Drafting for the Theatre. 3 hours.

Prerequisites: TH 423 or permission of the instructor.

A studio course exploring the creation of technical drawings through AutoCAD. Skills learned will include AutoCAD commands for drawing, layout of information, communication, and printer/plotter setup techniques.

TH 430 History of Costume for the Stage. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.

Historical study of dress in relation to costuming for the stage.

TH 432 Costume Construction II. 3 hours.

Prerequisite: Permission of the instructor.

A studio course in advanced costume construction techniques and/or costume crafts. Topics may include tailoring, corsetry, millinery, armor, wigs, masks, and jewelry. May be repeated for credit.

TH 433 Costume Design I. 3 hours.

Prerequisite: TH 120 or permission of the instructor.

A studio course in costume design, principles, and presentation.

TH 434 Costume Design II. 3 hours.

Prerequisites: TH 433 or permission of the instructor.

Continued, advanced study of the material in TH 433. Projects address specific problems in design.

TH 435 Professional Presentation for Theatre Designers. 3 hours.

Prerequisite: Permission of the instructor.

Preparation of "hard," digital, and Web-based portfolio presentations. Also included is information on presentation in a professional setting such as a job interview or adjudication.

TH 437 Drawing and Rendering for Stage Designers. 3 hours.

Prerequisite: Permission of the instructor.

This course is designed to teach students in stage design all aspects of drawing and rendering. Students will explore different types of media in which to color the drawings as well as how to render specific types of fabrics. Drawing exercises will focus on live models with and without period garments and elements of stage settings. May be repeated for a maximum of 9 hours.

TH 438 Tailoring Techniques for Theatre. 3 hours.

Prerequisites: TH 231 or TH 432, or permission of instructor.

Hand and machine tailoring techniques will be explored and incorporated into projects which will result in a two-piece suit.

TH 439 Advanced Stage Makeup. 3 hours.

Prerequisite: TH 230 or permission of the instructor.

A studio course using a variety of materials in the art of mask making, hair ventilating, and prosthetics.

TH 440 Stage Movement III: Topics. 3 hours.

Prerequisite: TH 240 and permission of the instructor.

Advanced theory and practice of specific stage movement, such as clowning, mask, stage combat, mime, etc. May be repeated for a maximum of 6 hours for differing topics.

TH 441 Acting III: Advanced Scene Study. 3 hours.

Prerequisites: TH 242 and permission of the instructor.

Thorough exploration of character study; concentration on 20th-century classics.

TH 442 Careers in the Professional Theatre. 3 hours.

Prerequisites: TH 441 and permission of the instructor.

The course focuses on audition and interview techniques, the union, and resume writing and other skills required to apply for positions in the academic and professional theatre.

TH 443 Script Analysis and Interpretation. 3 hours.

Prerequisites: TH 242 and permission of the instructor.

Theory and methodology of textual analysis of play scripts for production.

TH 444 Acting IV: Period Acting Styles I. 3 hours.

Prerequisites: TH 441 and permission of the instructor.

Study and practice of acting styles from 1850 to the present, concentrating on classical comedy, high comedy, and acting for the camera.

TH 445 Acting IV: Period Acting Styles II. 3 hours.

Prerequisites: TH 441 and permission of the instructor.

Study and practice of acting in verse drama, concentrating on Shakespeare's works.

TH 446 Advanced Voice and Speech for Performance. 3 hours.

Prerequisites: TH 241 and permission of the instructor.

Intensive exercises and practice for acquiring acceptable use of voice and speech for performance.

TH 447 Stage Dialects. 3 hours.

Prerequisite: TH 446 or permission of the instructor.

Study of stage dialects for the performer. Offered in alternate years.

TH 448 Rehearsal Process. 3 hours.

Prerequisite: TH 441 or permission of the instructor.

In this acting course, students analyze and participate in the rehearsal process of both unpublished and published scripts.

TH 449 Advanced Movement-Stage Combat. 3 hours.

Prerequisite: TH 140, TH 141, TH 240, and permission of instructor.

An advanced stage movement course in safely creating the illusion of armed violence. Topics include stage sword work, rapier/dagger, knife, small sword, broad sword.

TH 451 History of the Theatre I. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.

Covers the period from theatre's beginnings to the Restoration. Offered in alternate fall semesters.

TH 452 History of the Theatre II. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.
Covers the period from the Restoration to the 20th century. Offered in alternate spring semesters.

TH 453 European Theatre History since 1850. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.
Explores the European sources of the modern theatre.

TH 458 Modern American Feminist Theatre. 3 hours.

Prerequisites: TH 120, TH 220, or permission of the instructor.
Survey of dramas, performances, criticism, and theory since 1900 in American theatre.

TH 462 Advanced Directing. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.
Historical development of directing theory and methodology since Saxe Meiningen.

TH 465 Musical Theatre Performance I. 3 hours.

Prerequisite: Junior standing, TH 166, or permission of the instructor.
A course in musical theatre scene study, in which acting, singing, and movement skills are blended in the performance of songs and scenes.

TH 466 Musical Theatre Performance II. 3 hours.

Prerequisite: Junior standing, TH 465, or permission of the instructor.
A special topics course exploring such areas as musical theatre history, cabaret performance, in-depth study of a single work, etc.

TH 467 Musical Theatre Repertoire Coaching. 1 or 2 hours.

Prerequisite: Junior standing.
Individual coaching in musical repertoire, musical and dramatic performance techniques, and skills crucial to learning and rehearsing new material.

TH 470 Theatre Management. 3 hours.

Prerequisite: TH 120 or TH 220 or permission of the instructor.
This course will provide students with an overview of the administrative and management functions in the theatre industry, both not-for-profit organizations, as well as the commercial theatre industry.

TH 472 Arts Administration. 3 hours.

Prerequisite: Junior/senior standing or permission of the instructor.
A study of the management of theatrical and other performing arts organizations, with consideration of legal principles, tax-exempt status, unions, and other related topics.

TH 482 Playwriting I. 3 hours.

Prerequisite: TH 120 or TH 220 or permission of the instructor.
The course introduces the fundamentals of writing for the stage. Practical instruction in playwriting includes an opportunity to write a one-act play.

TH 483 Playwriting II. 3 hours.

Prerequisite: TH 482 or permission of the instructor.
An advanced course in playwriting concentrating on full-length play forms, draft revisions, and the script development process.

TH 486 Dramatic Theory and Criticism. 3 hours.

Prerequisite: TH 120 or TH 220, or permission of the instructor.
Survey of the major critical theories from antiquity to the present day, accompanied whenever possible by discussion of appropriate dramatic examples.

TH 491 Advanced Theatre Practicum. One half hour.

Prerequisite: TH 391 (1 hour).
Participation in University Theatre production through performance and design/leadership assignments in scenery, lighting, properties, sound, costuming, publicity, musical theatre and stage management, etc. May be repeated for a maximum of 1 hour.

TH 499 Independent Study. 1 to 4 hours.

Prerequisite: Permission of the faculty. May be repeated for a maximum of 8 hours.

TURKISH (TURK)

Office: 200-D B.B. Comer Hall

TURK 101 Elementary Turkish I. 3 hours.

Contemporary Turkish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

TURK 102 Elementary Turkish II. 3 hours.

Prerequisite: TURK 101 or consent of CLC director.
Contemporary Turkish—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

TURK 201 Intermediate Turkish I. 3 hours.

Prerequisite: TURK 102 or consent of CLC director.
Continuation of Turkish language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

TURK 202 Intermediate Turkish II. 3 hours.

Prerequisite: TURK 201 or consent of CLC director.
Continuation of TURK 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

UNIVERSITY (UA)

Office: 200 Clark Hall

UA 155 Freshman Research and Creative Opportunities. 1–3 hours.

Prerequisite: Admission to the Emerging Scholars Program.
Introduction to research in creative activities in a major research university. The course will provide special opportunities to freshman students admitted to the Emerging Scholars Program.

URDU (URDU)

Office: 200-D B.B. Comer Hall

URDU 101 Elementary Urdu I. 3 hours.

Contemporary Urdu—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

URDU 102 Elementary Urdu II. 3 hours.

Prerequisite: URDU 101 or consent of CLC director.
Contemporary Urdu—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

VIETNAMESE (VIET)

Office: 200-D B.B. Comer Hall

VIET 101 Elementary Vietnamese I. 3 hours.

Contemporary Vietnamese—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students have practice sessions three hours per week with a language “trainer” who is a native/near native speaker of the language. Native speakers of this language cannot take this course. Any students with background knowledge of this language must see the CLC director before registering. Not repeatable without permission of CLC director. Offered each semester.

VIET 102 Elementary Vietnamese II. 3 hours.

Prerequisite: VIET 101 or consent of CLC director.
Contemporary Vietnamese—speaking, reading, and writing. Course involves mixed self-instructional approach in the Critical Languages Center. Students are required to study the textbook and practice with assigned audiovisual materials (CDs, DVDs, or computer files). Students

have practice sessions three hours per week with a language "trainer" who is a native/near native speaker of the language. Not repeatable without permission of CLC director. Offered each semester.

VIET 201 Intermediate Vietnamese I. 3 hours.

Prerequisite: VIET 102 or consent of CLC director.

Continuation of Vietnamese language on the intermediate level. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

VIET 202 Intermediate Vietnamese II. 3 hours.

Prerequisite: VIET 201 or consent of CLC director.

Continuation of VIET 201. Emphasis is on the development of reading skills and writing proficiency. Not repeatable without permission of the CLC director. Offered according to demand.

WOMEN'S STUDIES (WS)

Office: 104 Manly Hall

WS 200 Introduction to Women's Studies. 3 hours.

An interdisciplinary course examining the roles of women in patriarchal society, with emphasis on how factors such as race, class, gender, and sexuality contribute to the oppression of women and ways they can be challenged through feminist critical practices.

WS 205 Women's Autobiographies. 3 hours.

Through an examination of women's autobiographical writings, the roles women have assumed in different cultures and periods are considered. Analytical techniques from the study of art, literature, and psychology are used to discover issues inherent in women's experiences.

WS 220 Mothers and Daughters. 3 hours.

Prerequisite: WS 200 or permission of the instructor.

Investigation of the institution of motherhood, the forces shaping it, and the significance of mother-daughter relationships.

WS 234 Women and Religion. 3 hours.

The role and place of women in several religious traditions, ancient and modern.

WS 240 The Culture of Southern Black Women. 3 hours.

The history and culture of black women in the South are examined through essays, creative writing, film, music, first-person narrative, and field research.

WS 300 Women in the Visual Arts. 3 hours.

Women's creative expression in fine art and domestic arts and crafts is examined from historical and contemporary perspectives; slide lectures offer examples of women's art work. Consideration is also given to professional and social roles of women artists.

WS 310 Special Topics. 3 hours.

Examination of selected issues in women's studies.

Changing topics: for example, women and work, women in the world, social inequality.

WS 330 Gender and Social Activism. 3 hours.

Examination of the social, political, and legal movements in the United States and their influences on the status of women in society. The intersection of race, ethnicity, gender, class, and sexuality is explored as a mechanism to address the struggles, experiences, and successes of women. The relationship between theory and practice is realized through gender-based action projects.

WS 340 Women and Law. 3 hours.

This seminar's major focus is the impact of law on the status and lives of women.

WS 352 Social Inequality (same as AAST 352 and SOC 352). 3 hours.

Analysis of inequities of wealth, power, and prestige; major theories of racial and cultural minorities; behavioral correlates of stratification; social mobility.

WS 410 Essential Readings and Writings in Women's Studies.

3 hours.

Prerequisite: WS 200 or permission of the instructor.

Essential readings and writings for female equality. Assignments focus on the publications and activities of feminist pioneers from the Enlightenment through the suffragist/abolitionist movement and contemporary period.

WS 430 Women in Contemporary Society/Feminist Theory. 3 hours.

Prerequisite: WS 200 or permission of the instructor.

Considers major economic, sociological, psychological, and philosophical approaches to the study of women. Emphasis is on the formulation of theories.

WS 440 Seminar in Women's Studies. 3 hours.

Prerequisite: WS 200 or permission of the instructor.

Courses under this rubric are designed to meet a specific need and supplement regular offerings.

WS 450:451 Independent Study in Women's Studies. 1 to 6 hours.

Prerequisites: Permission of the director and arrangement in advance of the semester in which enrollment is planned.

Independent study on any subject pertaining to women, under the supervision of a professor in the chosen field and/or the program director.

WS 470 Gender, Race, and Class. 3 hours.

Prerequisite: WS 200 or permission of the instructor.

A cross-cultural approach to the study of gender, race, and class discrimination. Focuses on the mutually reinforcing forces of oppression.

WORLD LITERATURE (WL)

Office: 200 B.B. Comer Hall

WL 207 World Literature (same as EN 207). 3 hours.

Prerequisites: EN 101 and EN 102 (or 103).

Survey of world literature from the Classical period to the Renaissance.

WL 208 World Literature (same as EN 208). 3 hours.

Prerequisites: EN 101 and EN 102 (or 103).

Survey of world literature from the Enlightenment to the Modern period.

WL 223 Nineteenth-Century Russian Literature in Translation (same as RUS 223). 3 hours.

Pushkin, Gogol, Dostoevsky, Turgenev, Tolstoy, Chekhov, and other authors. No knowledge of Russian is required. Offered every other year, usually in the fall semester.

WL 224 Twentieth-Century Russian Literature in Translation (same as RUS 224). 3 hours.

Nabokov, Gorky, Babel, Solzhenitsyn, Shukshin, and other authors. No knowledge of Russian is required. Offered every other year, usually in the spring semester.

WL 250 Germanic Mythology (same as GN 250). 3 hours.

Introduction to gods and myths of the early Germanic peoples as represented in writing and art, as well as the impact of Germanic mythology on Western culture and civilization.

WL 254 Survey of German Cinema (same as GN 254). 3 hours.

An overview of German cinema from Silent Era in the 1920's through New German Cinema to post-Wall works. Topics include history, socio-cultural frame, directors, and cinematography.

WL 260 The Holocaust in Film and Literature (same as GN 260). 3 hours.

An exploration of the aesthetic and ethical issues involved in artistic representations of the Holocaust.

WL 350 Traditional Chinese Literature in Translation (same as CHI 350). 3 hours.

Introduction to Chinese literature from the earliest times to the 20th century. No knowledge of Chinese is required.

WL 351 Modern Chinese Literature in Translation (same as CHI 351). 3 hours.

Introduction to 20th-century Chinese literature. No knowledge of Chinese is required.

WL 356 Traditional Japanese Literature in Translation (same as JA 356). 3 hours.

Introduction to Japanese literature from the earliest times through the Tokugawa period. No knowledge of Japanese is required.

WL 357 Modern Japanese Literature in Translation (same as JA 357). 3 hours.

Introduction to modern Japanese literature from the Meiji period to the present. No knowledge of Japanese is required.

WL 389:390 Special Topics. 3 hours.

Cross-listed courses addressing a variety of changing topics in different areas including literature, film, and the other arts.

WL 489:490 Special Topics. 3 hours.

Cross-listed with courses from other disciplines, usually the languages, and vary from semester to semester.

DEPARTMENT, PROGRAM, AND COURSE ALPHA SYMBOLS

Department, Program, or Course	Symbol	Division*	Human Environmental Sciences Human Nutrition and Hospitality Management Humanities Indonesian Information Sciences International Business Administration International Honors Program Italian Japanese Journalism Kinesiology Kinesiology—Coaching Courses Kinesiology—Leisure Activity Courses Korean Latin Legal Studies Library and Information Studies Management Management Information Systems Marketing Mass Communication Mathematics Mechanical Engineering Metallurgical and Materials Engineering Military Science Modern Greek Multiple Abilities Program Music Academics Music, Applied Music Education Natural Science New College Norwegian Nursing Operations Management Philosophy Physics Polish Political Science Portuguese Psychology Reading Education Religious Studies Restaurant, Hotel, and Meetings Management Russian Sanskrit Secondary Curriculum, Teaching, and Learning Social Sciences Social Work Sociology Spanish Special Education and Multiple Abilities Statistics Swahili Swedish Telecommunication and Film Thai Theatre Turkish University University Honors Program Urdu Vietnamese Women's Studies World Literature	HES	HS
Accountancy	AC	CB	NHM	HS	
Advertising and Public Relations	APR	CIS	HU	AS	
Aerospace Engineering and Mechanics	AEM	EG	INDO	AS	
African-American Studies	AAST	AS	IS	CIS	
Air Force Studies	AFS	AFS	IBA	CB	
American Studies	AMS	AS	IHP	UA	
Anthropology	ANT	AS	IT	AS	
Arabic	ARB	AS	JA	AS	
Art History	ARH	AS	JN	CIS	
Art, Studio	ART	AS	KIN	ED	
Arts and Sciences	AS	AS	KIN	ED	
Astronomy	AY	AS	KIN	ED	
Athletic Training	ATR	HS	KOR	AS	
Biological Sciences	BSC	AS	LA	AS	
Blount Undergraduate Initiative	BUI	AS	LGS	CB	
Book Arts	BA	CIS	LS	CIS	
Capstone International Programs	CIP	AA	MGT	CB	
Chemical and Biological Engineering	CHE/CHBE	EG	MIS	CB	
Chemistry	CH	AS	MKT	CB	
Chinese	CHI	AS	MC	CIS	
Civil, Construction, and Environmental Engineering	CE	EG	MATH	AS	
Classics	CL	AS	ME	EG	
Clothing, Textiles, and Interior Design	CTD	HS	MTE	EG	
Communication Studies	COM	CIS	MIL	MIL	
Communicative Disorders	CD	AS	MDGR	AS	
Community Health Sciences	CHS	CH	MAP	ED	
Computer-Based Honors Program	CBH	UA	MUS	AS	
Computer Science	CS	AS	MUA	AS	
Computers and Applied Technology	CAT	ED	MUE	ED	
Consumer Sciences	CSM	HS	NS	AS	
Cooperative Education Program	COOP	EG	NEW	AS	
Counselor Education	BCE	ED	NOR	AS	
Criminal Justice	CJ	AS	NUR	NU	
Croatian	CROA	AS	OM	CB	
Curriculum and Instruction	CIE	ED	PHL	AS	
Czech	CZE	AS	PH	AS	
Dance	DN	AS	POL	AS	
Dutch	DUT	AS	PSC	AS	
Economics	EC	AS, CB	PY	AS	
Educational Psychology	BEP	ED	CRD	ED	
Educational Research	BER	ED	REL	AS	
Electrical and Computer Engineering	ECE	EG	RHM	HES	
Elementary Education Programs	CEE	ED	RUS	AS	
Engineering Graphics	DR	EG	SAN	AS	
English	EN	AS	CSE	ED	
Environmental Science	ES	AS	SS	AS	
Exercise and Sport Science	HPES	ED	SW	SW	
External Degree Program	EXD	AS	SOC	AS	
Finance	FI	CB	SP	AS	
Finnish	FIN	AS	SPE	ED	
Foreign Languages and Literature	FLLT	AS	ST	CB	
French	FR	AS	SWA	AS	
Freshman Learning Community	FLC	AS	SWED	AS	
General Business Administration	GBA	CB	TCF	CIS	
General Engineering Studies	GES	EG	THAI	AS	
General Health Studies	HHE	HS	TH	AS	
General Studies	GS	AS	TURK	AS	
Geography	GY	AS	UA		
Geological Sciences	GEO	AS	UH	UA	
German	GN	AS	URDU	AS	
Global Studies Certificate Program	GSCP	AS	VIET	AS	
Greek	GR	AS	WS	AS	
Health Care Management	HCM	CB	WL	AS	
Hebrew	HEB	AS			
Hindi	HIN	AS			
History	HY	AS			
History, Philosophy, and Sociology of Education	BEF	ED			
Human Development and Family Studies	HD	HS			

*AA = Academic Affairs; AFS = Air Force ROTC; AS = Arts and Sciences; CB = Commerce and Business Administration; CIS = Communication and Information Sciences; CH = Community Health Sciences; CS = Continuing Studies; ED = Education; EG = Engineering; HS = Human Environmental Sciences; MIL = Army ROTC; NU = Nursing; SW = Social Work; UA = University-wide

CURRICULUM PLANNING TABLES

FIRST YEAR

Semester 1

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
Total _____				

To calculate semester GPA:

$$\frac{\text{Grade Points ()}}{\text{Hours Attempted ()}} = (\text{ }) \text{ GPA}$$

Semester 2

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
Total _____				

To calculate semester GPA:

$$\frac{\text{Grade Points ()}}{\text{Hours Attempted ()}} = (\text{ }) \text{ GPA}$$

To calculate total GPA:

$$\frac{\text{Total Grade Points ()}}{\text{Total Hours Attempted ()}} = (\text{ }) \text{ GPA}$$

Scholarships/Financial Aid:

Extracurricular and Cocurricular Activities:

SECOND YEAR

Semester 1

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
<hr/>				

Total _____

To calculate semester GPA:

$$\frac{\text{Grade Points} ()}{\text{Hours Attempted} ()} = () \text{ GPA}$$

Semester 2

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
<hr/>				

Total _____

To calculate semester GPA:

$$\frac{\text{Grade Points} ()}{\text{Hours Attempted} ()} = () \text{ GPA}$$

To calculate total GPA:

$$\frac{\text{Total Grade Points} ()}{\text{Total Hours Attempted} ()} = () \text{ GPA}$$

Scholarships/Financial Aid:

Extracurricular and Cocurricular Activities:

THIRD YEAR

Semester 1

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
<hr/>				

Total _____

To calculate semester GPA:

$$\frac{\text{Grade Points} ()}{\text{Hours Attempted} ()} = () \text{ GPA}$$

Semester 2

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
<hr/>				

Total _____

To calculate semester GPA:

$$\frac{\text{Grade Points} ()}{\text{Hours Attempted} ()} = () \text{ GPA}$$

To calculate total GPA:

$$\frac{\text{Total Grade Points} ()}{\text{Total Hours Attempted} ()} = () \text{ GPA}$$

Scholarships/Financial Aid:

Extracurricular and Cocurricular Activities:

FOURTH YEAR

Semester 1

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
<hr/>				

Total _____

To calculate semester GPA:

$$\frac{\text{Grade Points ()}}{\text{Hours Attempted ()}} = () \text{ GPA}$$

Semester 2

Planned Curriculum	Courses Taken	Grades Earned	Hours Attempted	Grade Points
<hr/>				

Total _____

To calculate semester GPA:

$$\frac{\text{Grade Points ()}}{\text{Hours Attempted ()}} = () \text{ GPA}$$

To calculate total GPA:

$$\frac{\text{Total Grade Points ()}}{\text{Total Hours Attempted ()}} = () \text{ GPA}$$

Scholarships/Financial Aid:

Extracurricular and Cocurricular Activities:

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