

MUSICAL AUDIO ENGINEERING, BS

The Musical Audio Engineering (B.S.M.A.E.) degree program is designed to prepare students for the broadest spectrum of recording studio operations, the equipment used in recording studios, live recording environments, and in-depth understanding of equipment design, maintenance, and operations. Graduates of this program will not only be able to operate audio equipment, but they will be able to design audio equipment as skilled musicians.

The overall goal of the Musical Audio Engineering program is to prepare students for engineering careers within the audio processing and recording discipline. This unique program includes basic courses in mathematics and physical sciences, broadening courses in humanities and social sciences, foundation courses in electrical engineering, and music courses as well as musical performance.

To participate in this program, students must be accepted into both the School of Music and the College of Engineering. More information can be found on the College of Engineering's Musical Audio Engineering website, the School of Music's Musical Audio Engineering website, and audition requirements can be found here.

[Click here for details on the College of Engineering policy for repeating courses.](#)

[Click here for details on the College of Engineering Residency policy.](#)

Major Area (Music-Engineering)		Hours
MUS 340	Intro Recording Techniq	3
MUA 399	Junior Recital	1
MUA 499	Senior Recital	1
ECE 225	Electric Circuits	4
ECE 332	Electronics I	4
ECE 333	Electronics II	4
ECE 370	Signals And Systems	3
ECE 380	Digital Logic	4
ECE 383	Microcomputers	4
MUS 341	Adv Rec Tech (Recording Techniques)	3
MUS 308	Pro Tools Essentials	3
MUS 430	Applied Recording	10
ECE 327	Audio Networks and Signals (Audio Networks and Signals)	3

Total Hours 47

Supportive Courses		Hours
MUS 115	Theory I: Voice Leading	4
MUS 250	Music In World Cultures	3
MUS 351	Fund Of Conducting	2
MUA 010	Music Convocation	0
MUA 121	Class Piano I	1
MUA 122	Class Piano II	1
MUA 123	Class Piano III	1
MUA 124	Class Piano IV	1
MATH 125	Calculus I	4
MATH 126	Calculus II	4
MATH 227	Calculus III	4
MATH 237	Introduction to Linear Algebra	3
MATH 238	Appld Diff Equations I	3

PH 105	General Physics W/Calc I	4
PH 106	General Physics W/Calc II	4
CS 100	CS I for Majors	4
Secondary Instrument (100 Level)		2
Secondary Instrument (200 Level)		2
Large Ensembles (two semesters)		2
Credit Hours Subtotal:		49

General Studies		Hours
Freshman Composition		6
Foreign Language or CS		7
Humanities and Fine Arts		9
History, Social/Behavioral Sciences		9
Natural Sciences		8
Mathematics		18
Writing Designated Courses		8
Credit Hours Subtotal:		65

Electives		Hours
ECE Elective (400 level)		3
MUS Elective (300 or 400 level)		3
Credit Hours Subtotal:		6

Musical Audio Engineering graduates are prepared for careers within the audio processing and recording industries.

Types of Jobs Accepted

Musical Audio Engineering graduates have opportunities in recording studio operations; live recording environments; and the design, fabrication, operation, and maintenance of recording equipment.