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

Click here for details on the College of Engineering Residency policy.

Major Area (Music-Engineering)

MATH 238

Appld Diff Equations I

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		
Supportive C	ourses	Hours
Supportive Co MUS 115	ourses Theory I: Voice Leading	Hours 4
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MUS 115	Theory I: Voice Leading	4
MUS 115 MUS 250	Theory I: Voice Leading Music In World Cultures	4
MUS 115 MUS 250 MUS 351	Theory I: Voice Leading Music In World Cultures Fund Of Conducting	4 3 2
MUS 115 MUS 250 MUS 351 MUA 010	Theory I: Voice Leading Music In World Cultures Fund Of Conducting Music Convocation	4 3 2 0
MUS 115 MUS 250 MUS 351 MUA 010 MUA 121	Theory I: Voice Leading Music In World Cultures Fund Of Conducting Music Convocation Class Piano I	4 3 2 0
MUS 115 MUS 250 MUS 351 MUA 010 MUA 121 MUA 122	Theory I: Voice Leading Music In World Cultures Fund Of Conducting Music Convocation Class Piano I Class Piano II	4 3 2 0 1
MUS 115 MUS 250 MUS 351 MUA 010 MUA 121 MUA 122 MUA 123	Theory I: Voice Leading Music In World Cultures Fund Of Conducting Music Convocation Class Piano I Class Piano II Class Piano III	4 3 2 0 1 1
MUS 115 MUS 250 MUS 351 MUA 010 MUA 121 MUA 122 MUA 123 MUA 124	Theory I: Voice Leading Music In World Cultures Fund Of Conducting Music Convocation Class Piano I Class Piano II Class Piano III Class Piano IV	4 3 2 0 1 1 1
MUS 115 MUS 250 MUS 351 MUA 010 MUA 121 MUA 122 MUA 123 MUA 124 MATH 125	Theory I: Voice Leading Music In World Cultures Fund Of Conducting Music Convocation Class Piano I Class Piano II Class Piano III Class Piano IV Calculus I	4 3 2 0 1 1 1 1 4
MUS 115 MUS 250 MUS 351 MUA 010 MUA 121 MUA 122 MUA 123 MUA 124 MATH 125 MATH 126	Theory I: Voice Leading Music In World Cultures Fund Of Conducting Music Convocation Class Piano I Class Piano II Class Piano III Class Piano IV Calculus I Calculus II	4 3 2 0 1 1 1 1 4

Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:				
CS 100 CS I for Majors Secondary Instrument (100 Level) Secondary Instrument (200 Level) Large Ensembles (two semesters) Credit Hours Subtotal: General Studies Ho Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	PH 105	General Physics W/Calc I		4
Secondary Instrument (100 Level) Secondary Instrument (200 Level) Large Ensembles (two semesters) Credit Hours Subtotal: General Studies Ho Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	PH 106	General Physics W/Calc II		4
Secondary Instrument (200 Level) Large Ensembles (two semesters) Credit Hours Subtotal: General Studies Ho Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	CS 100	CS I for Majors		4
Large Ensembles (two semesters) Credit Hours Subtotal: General Studies Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	Secondary Ins	strument (100 Level)		2
Credit Hours Subtotal: General Studies Ho Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	Secondary Instrument (200 Level)			
General Studies Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	Large Ensemb	oles (two semesters)		2
Freshman Composition Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:			Credit Hours Subtotal:	49
Foreign Language or CS Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	General Studio	es		Hours
Humanities and Fine Arts History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	Freshman Composition			6
History, Social/Behavioral Sciences Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	Foreign Langu	lage or CS		7
Natural Sciences Mathematics Writing Designated Courses Credit Hours Subtotal:	Humanities ar	nd Fine Arts		9
Mathematics Writing Designated Courses Credit Hours Subtotal:	History, Social	l/Behavioral Sciences		9
Writing Designated Courses Credit Hours Subtotal:	Natural Science	ces		8
Credit Hours Subtotal:	Mathematics			18
	Writing Design	nated Courses		8
Electives Ho			Credit Hours Subtotal:	65
	Electives			Hours
ECE Elective (400 level)	ECE Elective (400 level)		3
MUS Elective (300 or 400 level)	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

Hours

3

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