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.