

Music Technology BS

Overview

The **Bachelor of Science in Music Technology** and its optional concentration in Interdisciplinary Studies are offered by the Department of Music Studies.

Music technology fuses musical skill and technological knowledge to create works, or to pursue employment or graduate education in an extremely wide variety of areas. Some of these include music production, performance, composition, recording and editing, software and hardware development, systems design, equipment installation, video gaming, music editing and publishing, as well as numerous audio fields such as recording and editing concerts, events, films, television and video games, among others. It is not an exaggeration to state that virtually every area of the music industry has been influenced by technology.

The Bachelor of Science degree in Music Technology offers a sequence of courses in general education, music, music performance, music studies, recording technology, music technology, mathematics and computer science. Students who complete the program will be prepared for entry level jobs in the field or to pursue graduate education in music technology at top graduate programs nationally.

Special Admissions Requirements

See Music Admissions information on the Boyer College of Music and Dance page.

Campus Location: Main

Program Code: BC-MUTE-BS

Contact Information

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Learn more about the Bachelor of Science in Music Technology.

These requirements are for students who matriculated in academic year 2023-2024. Students who matriculated prior to fall 2023 should refer to the Archives to view the requirements for their Bulletin year.

Summary of Requirements

The Bachelor of Science in Music Technology is conferred upon a student by recommendation of the faculty and upon the satisfactory completion of a minimum of 124 credits.

University Requirements

- All students are required to complete the university's General Education (GenEd) curriculum.
- All students must take a minimum of two writing-intensive courses. The specific writing-intensive courses required for the major are MUST 3196 and either MUST 3696 or MUST 3796.

Program Requirements

| Code | Title | Credit Hours |
|---------------------------|----------------------------------|--------------|
| General Education courses | | 32 |
| Music Theory | | |
| MUST 1711 | Theory I | 4 |
| MUST 1712 | Theory II | 4 |
| MUST 2711 | Theory III | 4 |
| MUST 2712 | Theory IV | 4 |
| Secondary Piano | | |
| MUSC 1405 | Secondary Piano for Music Majors | 1 |

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| MUSC 1406 | Secondary Piano for Music Majors | 1 |
| MUSC 2405 | Secondary Piano for Music Majors | 1 |
| MUSC 2406 | Secondary Piano for Music Majors | 1 |
| Conducting | | |
| MUSC 2323 | Basic Conducting | 1 |
| MUSC 2324 | Conducting Intermediate | 1 |
| Orchestration | | |
| MUST 3713 | Orchestration | 3 |
| Music History | | |
| MUST 2703 | Music in History | 3 |
| MUST 2704 | Music in History | 3 |
| MUST 3196 | History of Pop | 3 |
| MUST 3696 | Music in History | 3 |
| or MUST 3796 | Music in History | |
| Music Technology | | |
| MUST 3763 | Analog and Modular Sound Synthesis | 3 |
| MUST 3764 | Scoring for Film and Digital Media | 3 |
| MUST 3765 | Scoring and Audio Design for Video Games | 3 |
| MUST 4711 | Computers in Musical Applications | 3 |
| MUST 4712 | Computer Synthesis of Music | 3 |
| MUST 4713 | Sound Recording | 3 |
| MUST 4714 | Sound Editing | 3 |
| MUST 4730 | Electronic Music Ensemble (Take 3 times for a total of 3 credits) | 3 |
| MUST 4882 | Project in Music Technology | 3 |
| Music Technology Elective Courses | | |
| Select at least one music course from the following list: | | 3 |
| MUST 4706 | Live Recording and Mixing for Broadcast | |
| MUST 4707 | Computer Programming for Musicians | |
| MUST 4719 | MIDI | |
| MUST 4721 | Computer Music Studio | |
| MUST 4724 | Printing Music Scores and Parts | |
| MUST 4725 | Advanced Audio Production | |
| MUST 4727 | Electronic Music Composition: Practice, History, Theory | |
| MUST 4732 | Programming in Max | |
| MUST 4780 | Special Topics Music Studies | |
| MUST 4785 | Music Industry Internship | |
| MUST 4786 | Music Industry Internship | |
| Mathematics Courses (prerequisite for Computer Science courses) | | |
| MATH 1021 | College Algebra ¹ | 4 |
| MATH 1022 | Precalculus ¹ | 4 |
| Computer Science Courses (counted as part of the major) | | |
| CIS 1051 | Introduction to Problem Solving and Programming in Python | 4 |
| CIS 1068 | Program Design and Abstraction | 4 |
| CIS 2229 | Architecture, Operating Systems and Networking | 4 |
| Ensembles | | |
| Pending a successful audition for the respective department, students may select any combination of the following ensembles at 1 credit each for a total of 2 credits. In subsequent semesters, up to 3 additional credits of ensemble (counted as General Studies Electives) may be taken with re-audition and departmental permission for a grand total of up to 5 credits of ensemble at 1 credit each. | | 2 |
| MUSC 3100 | Small Jazz Ensemble | |
| MUSC 3110 | Large Jazz Ensemble | |
| MUSC 3300 | Choral Ensemble | |
| MUSC 3510 | Marching Band | |

| | | |
|---------------------------------------|-------------------------|------------|
| MUSC 4300 | Concert Choir | |
| MUSC 4500 | Instrumental Ensemble | |
| MUSC 4510 | Instrumental Ensemble | |
| MUSC 4520 | Ensemble | |
| MUST 4700 | Latin Amer Mus Ensemble | |
| MUST 4710 | Early Music Ensemble | |
| Electives | | |
| General Studies Elective ² | | 3 |
| Total Credit Hours | | 124 |

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Students placing beyond this level of mathematics through Placement Testing may take any course with advisor permission as an elective in lieu of this course.

2

Electives may be selected in any academic discipline.

Suggested Academic Plan

Bachelor of Science in Music Technology

Suggested Plan for New Students Starting in the 2023-2024 Academic Year

| Year 1 | | |
|---|--|---------------------|
| Fall | | Credit Hours |
| MUSC 1405 | Secondary Piano for Music Majors | 1 |
| Select one of the following: ¹ | | 1 |
| MUSC 3100 | Small Jazz Ensemble | |
| MUSC 3110 | Large Jazz Ensemble | |
| MUSC 3300 | Choral Ensemble | |
| MUSC 3510 | Marching Band | |
| MUSC 4300 | Concert Choir | |
| MUSC 4500 | Instrumental Ensemble | |
| MUSC 4510 | Instrumental Ensemble | |
| MUSC 4520 | Ensemble | |
| MUST 4700 | Latin Amer Mus Ensemble | |
| MUST 4710 | Early Music Ensemble | |
| MUST 1711 | Theory I | 4 |
| MUST 4711 | Computers in Musical Applications | 3 |
| ENG 0802 | Analytical Reading and Writing | 4 |
| or ENG 0812 | or Analytical Reading and Writing: ESL | |
| or ENG 0902 | or Honors Writing About Literature | |
| GenEd Breadth Course | | 3 |
| Credit Hours | | 16 |
| Spring | | |
| MUSC 1406 | Secondary Piano for Music Majors | 1 |
| Select one of the following: ¹ | | 1 |
| MUSC 3100 | Small Jazz Ensemble | |
| MUSC 3110 | Large Jazz Ensemble | |
| MUSC 3300 | Choral Ensemble | |
| MUSC 3510 | Marching Band | |
| MUSC 4300 | Concert Choir | |
| MUSC 4500 | Instrumental Ensemble | |
| MUSC 4510 | Instrumental Ensemble | |
| MUSC 4520 | Ensemble | |
| MUST 4700 | Latin Amer Mus Ensemble | |

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| MUST 4710 | Early Music Ensemble | |
| MUST 1712 | Theory II | 4 |
| MUST 4713 | Sound Recording | 3 |
| GenEd Quantitative Literacy Course ^{GQ} | | 4 |
| GenEd Breadth Course | | 3 |
| Credit Hours | | 16 |
| Year 2 | | |
| Fall | | |
| MUSC 2405 | Secondary Piano for Music Majors | 1 |
| MUSC 2323 | Basic Conducting | 1 |
| MUST 2711 | Theory III | 4 |
| MUST 4714 | Sound Editing | 3 |
| IH 0851 or IH 0951 | Intellectual Heritage I: The Good Life or Honors Intellectual Heritage I: The Good Life | 3 |
| MATH 1021 | College Algebra ² | 4 |
| Credit Hours | | 16 |
| Spring | | |
| MUSC 2406 | Secondary Piano for Music Majors | 1 |
| MUSC 2324 | Conducting Intermediate | 1 |
| MUST 2712 | Theory IV | 4 |
| MUST 3763 | Analog and Modular Sound Synthesis | 3 |
| IH 0852 or IH 0952 | Intellectual Heritage II: The Common Good or Honors Intellectual Heritage II: The Common Good | 3 |
| MATH 1022 | Precalculus ² | 4 |
| Credit Hours | | 16 |
| Year 3 | | |
| Fall | | |
| MUST 2703 | Music in History | 3 |
| MUST 3764 | Scoring for Film and Digital Media | 3 |
| MUST 3196 | History of Pop | 3 |
| MUST 3713 | Orchestration | 3 |
| MUST 4730 | Electronic Music Ensemble | 1 |
| CIS 1051 | Introduction to Problem Solving and Programming in Python | 4 |
| Credit Hours | | 17 |
| Spring | | |
| GenEd Breadth Course | | 3 |
| CIS 1068 | Program Design and Abstraction | 4 |
| MUST 2704 | Music in History | 3 |
| MUST 3765 | Scoring and Audio Design for Video Games | 3 |
| MUST 4712 | Computer Synthesis of Music | 3 |
| MUST 4730 | Electronic Music Ensemble | 1 |
| Credit Hours | | 17 |
| Year 4 | | |
| Fall | | |
| GenEd Breadth Course | | 3 |
| GenEd Breadth Course | | 3 |
| CIS 2229 | Architecture, Operating Systems and Networking | 4 |
| MUST 3696 or MUST 3796 | Music in History or Music in History | 3 |
| MUST 4730 | Electronic Music Ensemble | 1 |
| Credit Hours | | 14 |

Spring

| | | |
|--|-----------------------------|------------|
| GenEd Breadth Course | | 3 |
| General Studies Elective ³ | | 3 |
| Music Technology Elective ⁴ | | 3 |
| MUST 4882 | Project in Music Technology | 3 |
| Credit Hours | | 12 |
| Total Credit Hours | | 124 |

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Pending a successful audition for the respective department, students may select any combination of the following courses for a total of 2 credits: Small Jazz Ensemble (MUSC 3100), Large Jazz Ensemble (MUSC 3110), Choral Ensemble (MUSC 3300), Marching Band (MUSC 3510), Concert Choir (MUSC 4300), Instrumental Ensemble (MUSC 4500), Instrumental Ensemble (MUSC 4510), Ensemble (MUSC 4520), Latin Amer Mus Ensemble (MUST 4700), Early Music Ensemble (MUST 4710). In subsequent semesters, up to 3 additional credits of ensemble (counted as General Studies Electives) may be taken with re-audition and Departmental permission for a grand total of up to 5 credits of ensemble at 1 credit each.

2

Students placing beyond this level of mathematics through Placement Testing may take any course with advisor permission as an elective in lieu of this course.

3

Electives may be selected in any academic discipline.

4

Music Technology Elective Courses: Live Recording and Mixing for Broadcast (MUST 4706), Computer Programming for Musicians (MUST 4707), MIDI (MUST 4719), Computer Music Studio (MUST 4721), Printing Music Scores and Parts (MUST 4724), Advanced Audio Production (MUST 4725), Electronic Music Composition: Practice, History, Theory (MUST 4727), Programming in Max (MUST 4732), Special Topics Music Studies (MUST 4780), Music Industry Internship (MUST 4785), Music Industry Internship (MUST 4786)