

MUSIC TECHNOLOGY - CERTIFICATE

The College of Music is pleased to offer an 18-credit certificate in music technology.

The curriculum consists of a variety of courses designed to provide a strong background in using technology to compose and produce music. The courses range from an introductory survey of music software and hardware to in depth studies of DSP, synthesis, algorithmic composition, recording and post-production techniques, film scoring, and many other topics. The software used in many of the classes includes Logic Pro, ProTools, Ableton Live, Finale, Lilypond, MAX, PD, SuperCollider, CSound, Final Cut Pro, Audacity, SoundHack and Spear.

For more information, contact John Drumheller at drumhell@colorado.edu.

Requirements

This certificate requires 18 credit hours, including five music technology courses.

The certificate program is available to all undergraduates in good standing with the university. Music majors should enroll under the MUSC heading and non-majors should use the MUEL heading. For those courses that do not have an MUEL prefix, non-majors will need instructor permission to enroll in the class.

To qualify for the certificate, the 2061 introductory course must be successfully completed or in-progress.

| Code | Title | Credit Hours |
|-------------------------|---|--------------|
| Music Technology | | 12 |
| MUSC/MUEL 2061 | Introduction to Music Technology | |
| MUSC 2081 | Prepared for the Soundcheck | |
| MUSC 2091 | Recording Techniques | |
| MUSC 4111 | Composing at the Computer | |
| MUSC/MUEL 4121 | Topics in Music Technology ¹ | |
| Electives | | 6 |
| ARSC 4040 | Arts and Sciences Special Topics | |
| ATLS 3519 | Special Topics in Creative Technology and Design | |
| ATLS 4519 | Advanced Special Topics in Creative Technology & Design | |
| CINE 3603 | Sound and Vision | |
| CMDP 3840 | Sound Practices | |
| CMDP 4870 | Sound and Technology | |
| CMDP 4900 | Concepts and Practices of Contemporary Media | |
| CSCI 1300 | Computer Science 1: Starting Computing | |
| CSCI 2400 | Computer Systems | |
| ECEN 3010 | Circuits and Electronics for Mechanical Engineers | |
| JRNL 3614 | Principles of Audio Production | |
| MUSC/MUEL 4121 | Topics in Music Technology ¹ | |
| MUSC 4191 | Advanced Recording | |

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|---------------------------|-----------------------------------|-----------|
| PHYS 1230 | Light and Color for Nonscientists | |
| PHYS 1240 | Sound and Music | |
| Total Credit Hours | | 18 |

¹ May be repeated up to three times as topics vary.