Master’s Programs in Music Technology and Computation (https://catalog-dev.mit.edu/interdisciplinary/graduate-programs/music-technology-computation)

Master of Science in Music Technology and Computation

Subject Requirements
The Master of Science in Music Technology and Computation requires a minimum of 68 units of subject credit and the completion of a thesis acceptable to the Music and Theater Arts Section.

Music Computation
Select three of the following subjects: 36

- 21M.583: Computational Music Theory and Analysis
- 21M.585: Interactive Music Systems
- 21M.587: Fundamentals of Music Processing
- 21M.589: Studies in Advanced Music Technology and Music Computation

Restricted Electives
Select 12 units from among the following subjects: 12

- 21M.517: MIT Laptop Ensemble
- 21M.560: Introduction to Music Technology
- 21M.561: Electronic Music Composition I
- 21M.562: Electronic Music Composition II
- 21M.569: Studies in Music Technology
- 21M.570: Digital Instrument Design
- 21M.572: Overview of Music Perception and Cognition
- 21M.573: Overview of Acoustics and the Physics of Sound
- 21M.574: Overview of Musical Software and Formats
- 21M.577: Overview of the Principles of Signals
- 21M.580[J]: Musical Aesthetics and Media Technology
- 21M.731: Sound Design for Theater and Dance
- MAS.837: Principles of Electronic Music Interfaces

or additional subjects from Music Computation above

Elective 12

Select 12 units from the restricted electives listed above or, with permission of advisor, any other subjects in music, computation, engineering, or technology.

Colloquium

21M.590: Colloquium in Music Technology (taken twice) 2

Research Seminar
21M.595: Music Technology And Computation Research Seminar 6

Thesis Requirement
Students must complete research-based thesis on a topic of their choice that has been approved by the thesis supervisor.
21M.THG: Directed Research and Thesis in Music Technology and Computation 24

Total Units 92

Master of Applied Science in Music Technology and Computation

Subject Requirements
The Master of Applied Science in Music Technology and Computation requires a minimum of 92 units of subject credit.

Foundation Subjects
21M.540: Musical Thinking 12

One of the following, selected by the advisor at the time of admission: 12

- 21M.541: Harmony and Counterpoint I with Computational Applications
- 21M.565: Programming for Music

A 12-unit Restricted Elective or Advanced Subject Overviews

Select three of the following subjects in conjunction with the advisor: 12

- 21M.572: Overview of Music Perception and Cognition
- 21M.573: Overview of Acoustics and the Physics of Sound
- 21M.574: Overview of Musical Software and Formats
- 21M.577: Overview of the Principles of Signals
- 21M.731: Sound Design for Theater and Dance
- MAS.837: Principles of Electronic Music Interfaces

or additional subjects from Music Computation above

Elective 12

Select one of the following subjects: 12

- 21M.560: Introduction to Music Technology
- 21M.561: Electronic Music Composition I
- 21M.562: Electronic Music Composition II
- 21M.569: Studies in Music Technology

Master's Programs in Music Technology and Computation (https://catalog-dev.mit.edu/interdisciplinary/graduate-programs/music-technology-computation)
### Advanced Subjects

Select two of the following subjects: 24

<table>
<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
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<tbody>
<tr>
<td>21M.583</td>
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</tr>
<tr>
<td>21M.589</td>
<td>Studies in Advanced Music Technology and Music Computation</td>
</tr>
</tbody>
</table>

### Elective

Select 12 units from Restricted Electives, Overviews, or Advanced Subjects; 21M.517; or with permission of advisor, any other subjects in music, computation, or technology. 12

### Colloquium

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</thead>
<tbody>
<tr>
<td>21M.590</td>
<td>Colloquium in Music Technology (taken twice)</td>
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</tbody>
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### Capstone

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<tr>
<th>Subject Code</th>
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<tbody>
<tr>
<td>21M.591</td>
<td>Capstone Project in Music Technology</td>
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</table>

### Total Units 92

**Note:**

Some required subjects may be exempted for students on the basis of successful performance on a diagnostic examination. In these cases, the units shall be substituted by an equal number of units from the Elective requirement.