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

**Colloquium**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21M.590</td>
<td>Colloquium in Music Technology (taken twice)</td>
<td>2</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
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</thead>
<tbody>
<tr>
<td>21M.THG</td>
<td>Directed Research and Thesis in Music Technology and Computation</td>
<td>24</td>
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</tbody>
</table>

**Total Units**
92

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

**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**
Select one of the following subjects:
- 21M.540 Musical Thinking | 12 |

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21M.572</td>
<td>Overview of Music Perception and Cognition</td>
<td>12</td>
</tr>
</tbody>
</table>
- 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 |

**Restricted Elective**
Select one of the following subjects:
- 21M.560 Introduction to Music Technology |
- 21M.561 Electronic Music Composition I |
- 21M.562 Electronic Music Composition II |
- 21M.569 Studies in Music Technology |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>21M.570</td>
<td>Digital Instrument Design</td>
</tr>
<tr>
<td>21M.570(J)</td>
<td>Musical Aesthetics and Media Technology</td>
</tr>
<tr>
<td>21M.731</td>
<td>Sound Design for Theater and Dance</td>
</tr>
<tr>
<td>MAS.837</td>
<td>Principles of Electronic Music Interfaces</td>
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</tbody>
</table>

**Advanced Subjects**

Select two of the following subjects: 24

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<td>Computational Music Theory and Analysis</td>
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<td>Interactive Music Systems</td>
</tr>
<tr>
<td>21M.587</td>
<td>Fundamentals of Music Processing</td>
</tr>
<tr>
<td>21M.589</td>
<td>Studies in Advanced Music Technology and Music Computation</td>
</tr>
</tbody>
</table>

**Elective** 12

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.

**Colloquium**

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**Capstone**

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