Master’s Programs in Music Technology and Computation (https://catalog.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[M] Musical Aesthetics and Media Technology
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**

**Research Seminar**
21M.590 Colloquium in Music Technology (taken twice)

**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

**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**
Select one of the following subjects:

21M.540 Thinking about Music

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:

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.576 Overview of Mathematics for Music Applications
21M.577 Overview of the Principles of Signals

**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
21M.570 Digital Instrument Design
### 21M.580[J] Musical Aesthetics and Media Technology

### MAS.837 Principles of Electronic Music Interfaces

#### Advanced Subjects

**Select two of the following subjects:**

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<thead>
<tr>
<th>Subject Code</th>
<th>Subject Title</th>
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<tbody>
<tr>
<td>21M.583</td>
<td>Computational Music Theory and Analysis</td>
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<td>21M.587</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.

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<th>Subject Code</th>
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<tbody>
<tr>
<td>21M.590</td>
<td>Colloquium in Music Technology (taken twice)</td>
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#### Colloquium

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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.