HUMANITIES AND ENGINEERING (COURSE 21E)

Bachelor of Science in Humanities and Engineering

As a matter of general Course 21 policy, subjects used to meet the General Institute Science Requirement, the REST Requirement, and the Laboratory Requirement may not be included in the six-subject Engineering component of 21E degrees. Up to six subjects (72 units) may be used for both the major and the GIRs, but the units from those subjects may not count toward the 180 units required beyond the GIRs. In addition, no more than one subject that counts toward the distribution component of the HASS Requirement may also be counted toward this major. At least eight of the subjects required for the chosen program cannot also count toward another major or a minor.

Students must designate two CI-M subjects by petitioning the Subcommittee on the Communication Requirement. Normally, students are expected to complete one CI-M from each area of study, usually chosen from the subjects designated as CI-M for each major.

General Institute Requirements (GIRs)

The General Institute Requirements include a Communication Requirement that is integrated into both the HASS Requirement and the requirements of each major; see details below.

<table>
<thead>
<tr>
<th>Summary of Subject Requirements</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Humanities, Arts, and Social Sciences (HASS)</td>
<td>8</td>
</tr>
<tr>
<td>Requirement [up to six subjects can be from the Departmental Program. Only one subject being used to meet the distribution component of the HASS Requirement may be counted toward the degree program.]; at least two of these subjects must be designated as communication-intensive (CI-H) to fulfill the Communication Requirement.</td>
<td></td>
</tr>
<tr>
<td>Restricted Electives in Science and Technology (REST) Requirement</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Requirement (12 units)</td>
<td>1</td>
</tr>
<tr>
<td>Total GIR Subjects Required for SB Degree</td>
<td>17</td>
</tr>
</tbody>
</table>

Physical Education Requirement

Swimming requirement, plus four physical education courses for eight points.

Restricted Electives

For the humanities component, choose one of the following (further details may be obtained from the descriptions of programs in specific fields and the relevant field office):

- African and African Diaspora Studies
- American Studies
- Ancient and Medieval Studies
- Anthropology
- Asian and Asian Diaspora Studies
- Comparative Media Studies
- Global Studies and Languages (in French, German, or Spanish)
- History
- Latin American and Latino/a Studies
- Literature
- Music
- Russian and Eurasian Studies
- Science, Technology, and Society (STS)
- Theater Arts
- Women’s and Gender Studies
- Writing

Units in Major | 135-186
Unrestricted Electives | 48-117
Units in Major That Also Satisfy the GIRs | 36-72
Total Units Beyond the GIRs Required for SB Degree | 180

The units for any subject that counts as one of the 17 GIR subjects cannot also be counted as units required beyond the GIRs.

1 African and African Diaspora Studies, American Studies, Ancient and Medieval Studies, Asian and Asian Diaspora Studies, Latin American and Latino/a Studies, Russian and Eurasian Studies and Women’s and Gender Studies are also available as options within the Course 21 degree program (http://catalog.mit.edu/degree-charts/humanities-course-21), by special arrangement with the Dean of the School of Humanities, Arts, and Social Sciences.

2 This chart has been calculated based on an overlap of 36 units (three subjects) between the HASS General Institute Requirement and the departmental requirements. Students who develop a program of study with more overlap will be able to select more unrestricted electives to meet the number of total units beyond the GIRs required for an SB degree.
Restricted Electives: Humanities Component (by area of study)

African and African Diaspora Studies
Select seven elective subjects that follow the general structure of the Minor  
21.THT Humanities Pre-Thesis Tutorial 6
21.THU Undergraduate Thesis in Humanities 12
Total Units 81-102

2 See the minor in African and African Diaspora Studies (http://catalog.mit.edu/interdisciplinary/undergraduate-programs/minors/minor-african-studies) for a list of available subjects and a description of the structure of the program.

American Studies
Select seven elective subjects that follow the structure of the Minor  
21.THT Humanities Pre-Thesis Tutorial 2 6
21.THU Undergraduate Thesis in Humanities 12
Total Units 81-102

2 See the minor in American Studies (http://catalog.mit.edu/interdisciplinary/undergraduate-programs/minors/american-studies) for a list of available subjects and a description of the structure of the program.

Ancient and Medieval Studies
Select seven elective subjects that follow the general structure of the Minor  
21.THT Humanities Pre-Thesis Tutorial 6
21.THU Undergraduate Thesis in Humanities 12
Total Units 81-102

2 See the minor in Ancient and Medieval Studies (http://catalog.mit.edu/interdisciplinary/undergraduate-programs/minors/ancient-medieval-studies) for a list of available subjects and a description of the structure of the program.

Anthropology
21A.00 Introduction to Anthropology: Comparing Human Cultures 12
or 21A.01 How Culture Works
or 21A.157 The Meaning of Life
Select eight elective subjects  90-96
Total Units 102-108

2 An honors thesis may be done at the invitation and approval of faculty.

Asian and Asian Diaspora Studies
Select seven elective subjects that follow the general structure of the Minor  
21.THT Humanities Pre-Thesis Tutorial 6
21.THU Undergraduate Thesis in Humanities 12
Total Units 81-102

1 See the minor in Asian and Asian Diaspora Studies (http://catalog.mit.edu/interdisciplinary/undergraduate-programs/minors/asian-studies) for a list of available subjects and a description of the structure of the program.

Comparative Media Studies
CMS.100 Introduction to Media Studies 12
CMS.701 Current Debates in Media 12
Select one of the following Practice and Production subjects: 12

CMS.335[J] Short Attention Span Documentary
CMS.362 Civic Media Collaborative Design Studio
CMS.590[J] Design and Development of Games for Learning
CMS.609[J] The Word Made Digital
CMS.633 Digital Humanities: Topics, Techniques, and Technologies
CMS.634 Designing Interactions
21W.752 Making Documentary: Audio, Video, and More
Select five CMS electives  45-60
Total Units 81-96

1 A pre-thesis tutorial (CMS.THT) and thesis (CMS.THU), totaling 18 units of credit, may be substituted for one CMS elective.

Global Studies and Languages (in French, German, or Spanish)
Select nine elective subjects, which may include a pre-thesis tutorial and thesis (21G.THT and 21G.THU), subject to faculty approval 81-108
Total Units 81-108

History
Select five elective subjects  54-60
Select one 21H seminar subject (excluding 21H.390)  9-12
21H.390 Theories and Methods in the Study of History 12
21H.THT History Pre-Thesis Tutorial 12
21H.THU History Thesis 12
Total Units 99-108

Humanities and Engineering (Course 21E)
2. The five 21H subjects must include one pre-modern subject (before 1700).
3. Select from among 21H subjects for which the first digit after the decimal point is 3. See the History website (http://history.mit.edu/subjects) for additional information.

**Latin American and Latino/a Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.55[J]</td>
<td>Introduction to Latin American Studies</td>
<td>12</td>
</tr>
</tbody>
</table>

Select six elective subjects, including study in at least two disciplines and subjects in either Spanish or Portuguese.

**Total Units** 84-102

**Literature**

Select eight elective subjects, including two seminars and subjects in three historical periods or thematic complexes.

**Total Units** 96

**Music**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21M.301</td>
<td>Harmony and Counterpoint I</td>
<td>12</td>
</tr>
<tr>
<td>21M.500</td>
<td>Advanced Seminar in Music</td>
<td>12</td>
</tr>
</tbody>
</table>

Select two terms of performance subjects (6 units each).

Select one of the following:

- 21M.220 Medieval and Renaissance Music
- 21M.235 Baroque and Classical Music
- 21M.250 Nineteenth-Century Music
- 21M.260 Music since 1900
- 21M.271 Symphony and Concerto
- 21M.273 Opera

Select one of the following:

- 21M.291 Music of India
- 21M.292 Music of Indonesia
- 21M.293 Music of Africa
- 21M.294 Popular Musics of the World
- 21M.299 Studies in World Music

**Restricted Electives**

A coherent program of four subjects from the music curriculum chosen in consultation with faculty advisor(s). A coherent program of four subjects from the music curriculum chosen in consultation with faculty advisor(s).

**Total Units** 36

**Russian and Eurasian Studies**

Select seven elective subjects, two of which must satisfy the language requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.THT</td>
<td>Humanities Pre-Thesis Tutorial</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Units** 63-84

**Science, Technology, and Society (STS)**

Select six elective subjects.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>STS.004</td>
<td>Intersections: Science, Technology, and the World</td>
<td>12</td>
</tr>
<tr>
<td>STS.THT</td>
<td>Undergraduate Thesis Tutorial</td>
<td>6</td>
</tr>
<tr>
<td>STS.THU</td>
<td>Undergraduate Thesis</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total Units** 84-102

1. Must include at least one Tier I subject in addition to STS.004 and one Tier II subject (http://sts-program.mit.edu/academics/undergraduate/tier-ii-subjects).

**Theater Arts**

Select seven elective subjects. Qualified students may, with departmental approval, substitute a thesis (21M.ThU) for one of these 12-unit electives.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21M.710</td>
<td>Script Analysis</td>
<td>12</td>
</tr>
</tbody>
</table>

Select 12 units of the following:

- 21M.803 Performance and Design Workshop
- 21M.806 Applied Performance and Design Production
- 21M.809 Performance and Design Intensive
- 21M.851 Independent Study in Performance and Design

**Total Units** 90-108

**Women's and Gender Studies**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>WGS.101</td>
<td>Introduction to Women's and Gender Studies</td>
<td>12</td>
</tr>
<tr>
<td>WGS.301[J]</td>
<td>Feminist Thought</td>
<td>12</td>
</tr>
</tbody>
</table>

Select five elective subjects.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21.THT</td>
<td>Humanities Pre-Thesis Tutorial</td>
<td>6</td>
</tr>
<tr>
<td>21.THU</td>
<td>Undergraduate Thesis in Humanities</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total Units** 102

2. With the permission of the director of the program, students may substitute two 12-unit subjects for 21.THT and 21.THU.

**Writing**

Select seven subjects in Writing.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>21W.THT</td>
<td>Writing Pre-Thesis Tutorial</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Units** 84

1. See the minor in Russian Studies (http://catalog.mit.edu/interdisciplinary/undergraduate-programs/minors/russian-eurasian-studies) for a list of available subjects and a description of the structure of the program.
<table>
<thead>
<tr>
<th></th>
<th>Writing Program Thesis</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Units</strong></td>
<td></td>
<td><strong>102</strong></td>
</tr>
</tbody>
</table>

\footnote{One of these subjects is normally at the introductory level; one may be selected from a related field.}