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.

Summary of Subject Requirements

<table>
<thead>
<tr>
<th>Subjects</th>
<th>Subjects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Science Requirement</td>
<td>6</td>
</tr>
<tr>
<td>Humanities, Arts, and Social Sciences (HASS) 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>8</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):

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>81-114</td>
</tr>
</tbody>
</table>

American Studies ¹
Ancient and Medieval Studies ¹
Anthropology
Asian and Asian Diaspora Studies ¹
Comparative Media Studies
Global Studies and Languages (in French, German, or Spanish)
History
Latin American and Latino/a Studies ¹
Literature
Music
Russian and Eurasian Studies ¹
Science, Technology, and Society (STS)
Theater Arts
Women’s and Gender Studies ¹
Writing

For the engineering component, select six elective subjects restricted to one of the engineering curricula and approved by a faculty member in the field.

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>54-72</td>
</tr>
</tbody>
</table>

Units in Major

135-186

Unrestricted Electives ²

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 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)**

**American Studies**
Select seven elective subjects, including two in history and two in literature

63-84

21.THT Humanities Pre-Thesis Tutorial 1
21.THU Undergraduate Thesis in Humanities

Total Units 81-102

1 With the consent of the faculty advisor, a student may substitute two subjects for 21.THT and 21.THU.

**Ancient and Medieval Studies**
Select seven elective subjects that follow the general structure of the Minor 1

63-84

21.THT Humanities Pre-Thesis Tutorial
21.THU Undergraduate Thesis in Humanities

Total Units 81-102

1 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

Select eight elective subjects 1 90-96

Total Units 102-108

1 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 1

63-84

21.THT Humanities Pre-Thesis Tutorial
21.THU Undergraduate Thesis in Humanities

Total Units 81-102

2 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:

CMS.335[J] Short Attention Span Documentary 45-60
CMS.362 Civic Media Collaborative Design Studio
CMS.590[J] Design and Development of Games for Learning 12
CMS.609[J] Designing Interactions
CMS.622 Applying Media Technologies in the Arts and Humanities
CMS.633 Digital Humanities: Topics, Techniques, and Technologies
CMS.634 Designing Interactions 21W.752 Making Documentary: Audio, Video, and More 45-60

Total Units 81-102

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

Total Units 81-108

**History**
Select five elective subjects 1 54-60

Select one 21H seminar subject (excluding 21H.390) 2 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

1 The five 21H subjects must include one pre-modern subject (before 1700).
2 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**

17.55[J] Introduction to Latin American Studies 12

Select six elective subjects, including study in at least two disciplines and subjects in either Spanish or Portuguese 54-72

21.THT Humanities Pre-Thesis Tutorial 6
21.THU Undergraduate Thesis in Humanities 12

Total Units 84-102
### Literature
Select eight elective subjects, including two seminars and subjects in three historical periods or thematic complexes.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harmony and Counterpoint I</td>
<td>12</td>
</tr>
<tr>
<td>Medieval and Renaissance Music</td>
<td>12</td>
</tr>
<tr>
<td>Baroque and Classical Music</td>
<td>12</td>
</tr>
<tr>
<td>Music since 1900</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Total Units
96

### Music
- **21M.301 Harmony and Counterpoint I** 12
- **Select two terms of performance subjects (6 units each):** 12
- **Select one of the following:** 12
  - **21M.220 Medieval and Renaissance Music**
  - **21M.235 Baroque and Classical Music**
  - **21M.260 Music since 1900**

#### Total Units
96

### 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>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Script Analysis</td>
<td>12</td>
</tr>
<tr>
<td>Performance and Design Workshop</td>
<td>12</td>
</tr>
<tr>
<td>Applied Performance and Design Production</td>
<td>12</td>
</tr>
<tr>
<td>Performance and Design Intensive</td>
<td>12</td>
</tr>
<tr>
<td>Independent Study in Performance and Design</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Total Units
96

### Russian and Eurasian Studies
Select seven elective subjects, two of which must satisfy the language requirement.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanities Pre-Thesis Tutorial</td>
<td>6</td>
</tr>
<tr>
<td>Undergraduate Thesis in Humanities</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Total Units
96

### Science, Technology, and Society (STS)
Select seven elective subjects.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intersections: Science, Technology, and the World</td>
<td>12</td>
</tr>
<tr>
<td>Undergraduate Thesis Tutorial</td>
<td>6</td>
</tr>
<tr>
<td>Undergraduate Thesis</td>
<td>12</td>
</tr>
</tbody>
</table>

#### Total Units
93-114

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

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