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>Units</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.

Departmental Program

Choose at least two subjects in the major that are designated as communication-intensive (CI-M) to fulfill the Communication Requirement.

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):

- 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

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

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 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.

- **21.THT** Humanities Pre-Thesis Tutorial 1 6
- **21.THU** Undergraduate Thesis in Humanities 12

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.

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

Total Units 81-102

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
- **21A.01** How Culture Works

Select eight elective subjects

Total Units 102-108

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

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
- **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.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

Select five CMS electives

Total Units 45-60

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

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

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.

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

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**

21M.301 Harmony and Counterpoint I 12

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.260 Music since 1900

Total Units: 96

**Restricted Electives**

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

Total Units: 48

**Russian and Eurasian Studies**

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

21.THT Humanities Pre-Thesis Tutorial 6

21.THU Undergraduate Thesis in Humanities 12

Total Units: 81-102

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

Select seven elective subjects 3

- STS.004 Intersections: Science, Technology, and the World 12
- STS.THT Undergraduate Thesis Tutorial 6
- STS.THU Undergraduate Thesis 12

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).

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**Theater Arts**

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

21M.710 Script Analysis 12

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**

WGS.101 Introduction to Women’s and Gender Studies 12

WGS.301(J) Feminist Thought 12

Select five elective subjects 60

21.THT Humanities Pre-Thesis Tutorial 6

21.THU Undergraduate Thesis in Humanities 12

Total Units: 102

1 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 4

21W.THT Writing Pre-Thesis Tutorial 6

21W.THU Writing Program Thesis 12

Total Units: 102

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