

## 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.

Students must designate two CI-M subjects by petitioning the Subcommittee on the Communication Requirement (<http://web.mit.edu/commreq/cim/course21e21s.html>). 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	Subjects
Science Requirement	6
Humanities, Arts, and Social Sciences (HASS) Requirement [between three and 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.	8
Restricted Electives in Science and Technology (REST) Requirement	2
Laboratory Requirement (12 units)	1
<b>Total GIR Subjects Required for SB Degree</b>	<b>17</b>

#### 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	Units
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):	81-114
American Studies <sup>1</sup>	
Ancient and Medieval Studies <sup>1</sup>	

Anthropology	
Asian and Asian Diaspora Studies <sup>1</sup>	
Comparative Media Studies	
Global Studies and Languages (in French, German, or Spanish)	
History	
Latin American and Latino/a Studies <sup>1</sup>	
Literature	
Music	
Russian and Eurasian Studies <sup>1</sup>	
Science, Technology, and Society (STS)	
Theater Arts	
Women's and Gender Studies <sup>1</sup>	
Writing: Creative	
Writing: Digital Media	
Writing: Science 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.	
<b>Units in Major</b>	54-72
<b>Unrestricted Electives <sup>2</sup></b>	48-117
<b>Units in Major That Also Satisfy the GIRs</b>	(36-72)
<b>Total Units Beyond the GIRs Required for SB Degree</b>	<b>180</b>

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

<sup>1</sup> 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.

<sup>2</sup> 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 <sup>1</sup>	6
21.THU Undergraduate Thesis in Humanities	12
<b>Total Units</b>	<b>81-102</b>

<sup>1</sup> 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 <sup>1</sup>	63-84
21.THT Humanities Pre-Thesis Tutorial	6
21.THU Undergraduate Thesis in Humanities	12
<b>Total Units</b>	<b>81-102</b>

<sup>1</sup> 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 <sup>1</sup>	90-96
<b>Total Units</b>	<b>102-108</b>

<sup>1</sup> 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 <sup>1</sup>	63-84
21.THT Humanities Pre-Thesis Tutorial	6
21.THU Undergraduate Thesis in Humanities	12
<b>Total Units</b>	<b>81-102</b>

<sup>1</sup> 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[] Short Attention Span Documentary	
CMS.362 Civic Media Collaborative Design Studio	
CMS.590[] Design and Development of Games for Learning	
CMS.609[] 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 <sup>1</sup>	45-60
<b>Total Units</b>	<b>81-96</b>

<sup>1</sup> 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
<b>Total Units</b>	<b>81-108</b>

**History**

Select seven elective subjects	63-84
21H.THT History Pre-Thesis Tutorial	6
21H.THU History Thesis	12
<b>Total Units</b>	<b>81-102</b>

**Latin American and Latino/a Studies**

17.55[] 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
<b>Total Units</b>	<b>84-102</b>

**Literature**

Select eight elective subjects, including two seminars and subjects in three historical periods or thematic complexes	96
<b>Total Units</b>	<b>96</b>

**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 Monteverdi to Mozart: 1600-1800	
21M.260 Stravinsky to the Present	
Select one of the following:	12
21M.291 Music of India	
21M.292 Music of Indonesia	
21M.293 Music of Africa	
21M.294 Popular Musics of the World	

**Restricted Electives**

A coherent program of four subjects from the music curriculum chosen in consultation with faculty advisor(s) 48

Total Units 96

**Russian and Eurasian Studies**

Select seven elective subjects, two of which must satisfy the language requirement 63-84

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 <sup>1</sup> 63-84

STS.004 Intersections: Science, Technology, and the World 12

STS.THT Undergraduate Thesis Tutorial 6

STS.THU Undergraduate Thesis 12

Total Units 93-114

<sup>1</sup> 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>).

**Theater Arts**

Select six elective subjects 54-72

21M.710 Script Analysis 12

Select 12 units of the following: 12

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

21M.THT Pre-Thesis Tutorial 6

21M.THU Undergraduate Thesis 12

Total Units 96-114

**Women's and Gender Studies**

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

WGS.301[[ Feminist Thought 12

Select five elective subjects 60

21.THT Humanities Pre-Thesis Tutorial <sup>1</sup> 6

21.THU Undergraduate Thesis in Humanities 12

Total Units 102

<sup>1</sup> With the permission of the director of the program, students may substitute two 12-unit subjects for 21.THT and 21.THU.

**Writing: Creative**

Select seven subjects centered in creative or expository writing <sup>1</sup> 84

21W.THT Writing and Humanistic Studies Pre-Thesis Tutorial 6

21W.THU Writing and Humanistic Studies Thesis 12

Total Units 102

<sup>1</sup> One of these subjects is normally at the introductory level; one may be selected from a related field.

**Writing: Digital Media**

21W.764[[ The Word Made Digital 12

21W.765[[ Interactive Narrative 12

21W.785 Communicating with Web-Based Media 12

Select a CI-M subject in writing 12

Select three related subjects from another department 27-36

21W.THT Writing and Humanistic Studies Pre-Thesis Tutorial 6

21W.THU Writing and Humanistic Studies Thesis 12

Total Units 93-102

**Writing: Science Writing**

Select a subject in basic exposition <sup>1</sup> 12

Select a subject in digital media 12

Select a subject in science, technology, and society 9-12

Select an elective writing subject 12

21W.777 Science Writing in Contemporary Society 12

21W.778 Science Journalism 12

21W.792 Science Writing Internship 12

21W.THT Writing and Humanistic Studies Pre-Thesis Tutorial 6

21W.THU Writing and Humanistic Studies Thesis 12

Total Units 99-102

<sup>1</sup> Select from the 21W subjects for which the first digit after the decimal is 0.