ARCHITECTURE (COURSE 4)

Department of Architecture (http://catalog.mit.edu/schools/architecture-planning/architecture/#undergraduatetext)

Bachelor of Science in Architecture

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)</td>
<td>8</td>
</tr>
<tr>
<td>Requirement [one subject can be satisfied by a subject in the Departmental 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 [one subject can be satisfied by 4.440[J] in the Departmental Program]</td>
<td>2</td>
</tr>
<tr>
<td>Laboratory Requirement (12 units) [can be satisfied by 4.411[J], an option within the Departmental Program]</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.

<table>
<thead>
<tr>
<th>Required Subjects</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.021 or 4.02A</td>
<td></td>
</tr>
<tr>
<td>Design Studio: How to Design</td>
<td>9-12</td>
</tr>
<tr>
<td>Design Studio: How to Design Intensive</td>
<td></td>
</tr>
<tr>
<td>4.022</td>
<td></td>
</tr>
<tr>
<td>Design Studio: Introduction to Design Techniques and Technologies</td>
<td>12</td>
</tr>
<tr>
<td>4.023</td>
<td></td>
</tr>
<tr>
<td>Architecture Design Studio I (CI-M)</td>
<td>24</td>
</tr>
<tr>
<td>4.024</td>
<td></td>
</tr>
<tr>
<td>Architecture Design Studio II</td>
<td>24</td>
</tr>
<tr>
<td>4.302</td>
<td></td>
</tr>
<tr>
<td>Foundations in Art, Design, and Spatial Practices (CI-M)</td>
<td>12</td>
</tr>
<tr>
<td>4.401</td>
<td></td>
</tr>
<tr>
<td>Environmental Technologies in Buildings</td>
<td>12</td>
</tr>
<tr>
<td>4.440[J]</td>
<td></td>
</tr>
<tr>
<td>Introduction to Structural Design</td>
<td>12</td>
</tr>
<tr>
<td>4.500</td>
<td></td>
</tr>
<tr>
<td>Design Computation: Art, Objects and Space</td>
<td>12</td>
</tr>
</tbody>
</table>

4.501 Tiny Fab: Advancements in Rapid Design and Fabrication of Small Homes
or 4.502 Advanced Visualization: Architecture in Motion Graphics
4.603 Understanding Modern Architecture
Select one of the following:
4.605 A Global History of Architecture
4.614 Building Islam
4.635 Early Modern Architecture and Art

Restricted Electives

Select one of the following:
4.025 Architecture Design Studio III
Two subjects from the Restricted Electives list below

Units in Major: 177-180

Unrestricted Electives: 48-51

Units in Major That Also Satisfy the GIRs: (36)

Total Units Beyond the GIRs Required for SB Degree: 192

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 Where there are certain choices in the Required Subjects section (4.501 or 4.502; and 4.605, 4.614, or 4.635), the option(s) not chosen can be used as a restrictive elective.

Restricted Electives

Architecture Design and Studies
4.041 Design Studio: Advanced Product Design
4.053 Visual Communication Fundamentals
4.250[J] Introduction to Urban Design and Development

Art, Culture, and Technology
4.307 Art, Architecture, and Urbanism in Dialogue
4.314 Advanced Workshop in Artistic Practice and Transdisciplinary Research
4.322 Introduction to Three-Dimensional Art Work
4.341 Introduction to Photography and Related Media
4.344 Advanced Photography and Related Media
4.354 Introduction to Video and Related Media
4.356 Cinematic Migrations
4.368 Studio Seminar in Art and the Public Sphere
4.373 Advanced Projects in Art, Culture, and Technology 12

**Building Technology**

4.411[J] D-Lab Schools: Building Technology Laboratory 12

4.432 Modeling Urban Energy Flows for Sustainable Cities and Neighborhoods 12

4.451 Computational Structural Design and Optimization 12

**Computation**

4.501 Tiny Fab: Advancements in Rapid Design and Fabrication of Small Homes 1 12

4.502 Advanced Visualization: Architecture in Motion Graphics 1 12

4.507 Introduction to Building Information Modeling in Architecture 1 12

4.520 Visual Computing 12

6.1040 Software Design 15

6.4400 Computer Graphics 12

6.8371 Digital and Computational Photography 12

CMS.405 Visual Design 12

CMS.631 Data Storytelling Studio 12

CMS.633 Digital Humanities: Topics, Techniques, and Technologies 12

**History, Theory and Criticism of Architecture, Art and Design**

4.601 Introduction to Art History 12

4.602 Modern Art and Mass Culture 12

4.605 A Global History of Architecture 1 12

4.614 Building Islam 1 12

4.635 Early Modern Architecture and Art 1 12

4.636 Topics in European Medieval Architecture and Art 12

4.651 Art Since 1940 12

4.657 Design: The History of Making Things 12

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Where there are certain choices in the Required Subjects section (4.501 or 4.502; and 4.605, 4.614, or 4.635), the option(s) not chosen can be used as a restrictive elective.