INTERDISCIPLINARY GRADUATE PROGRAMS

At MIT, students and faculty from different fields work together in a variety of collaborative programs that extend beyond departmental or school boundaries. The following programs offer a number of interdisciplinary graduate degrees:

- Advanced Urbanism (http://catalog.mit.edu/interdisciplinary/graduate-programs/advanced-urbanism)
- Computation and Cognition (http://catalog.mit.edu/interdisciplinary/graduate-programs/computation-cognition)
- Computational and Systems Biology (http://catalog.mit.edu/interdisciplinary/graduate-programs/computational-systems-biology)
- Computational Science and Engineering (http://catalog.mit.edu/interdisciplinary/graduate-programs/computational-science-engineering)
- Computer Science and Molecular Biology (http://catalog.mit.edu/interdisciplinary/graduate-programs/computer-science-molecular-biology)
- Computer Science, Economics, and Data Science (http://catalog.mit.edu/interdisciplinary/graduate-programs/computer-science-economics-data-science)
- Computer Science and Molecular Biology (http://catalog.mit.edu/interdisciplinary/graduate-programs/computer-science-molecular-biology)
- Harvard-MIT Health Sciences and Technology (http://catalog.mit.edu/interdisciplinary/graduate-programs/harvard-mit-health-sciences-technology)
- Integrated Design and Management (http://catalog.mit.edu/interdisciplinary/graduate-programs/system-design-management)
- Joint Program with Woods Hole Oceanographic Institution (http://catalog.mit.edu/interdisciplinary/graduate-programs/joint-program-woods-hole-oceanographic-institution)
- Leaders for Global Operations (http://catalog.mit.edu/interdisciplinary/graduate-programs/leaders-global-operations)
- Microbiology (http://catalog.mit.edu/interdisciplinary/graduate-programs/microbiology)
- Operations Research (http://catalog.mit.edu/interdisciplinary/graduate-programs/operations-research)
- Polymers and Soft Matter (http://catalog.mit.edu/interdisciplinary/graduate-programs/polymers-soft-matter)
- Real Estate Development (http://catalog.mit.edu/interdisciplinary/graduate-programs/real-estate-development)
- Social and Engineering Systems (http://catalog.mit.edu/interdisciplinary/graduate-programs/social-engineering-systems)
- Statistics (http://catalog.mit.edu/interdisciplinary/graduate-programs/phd-statistics)
- Supply Chain Management (http://catalog.mit.edu/interdisciplinary/graduate-programs/supply-chain-management)
- System Design and Management (http://catalog.mit.edu/interdisciplinary/graduate-programs/system-design-management)
- Technology and Policy (http://catalog.mit.edu/interdisciplinary/graduate-programs/technology-policy)
- Transportation (http://catalog.mit.edu/interdisciplinary/graduate-programs/transportation)

Several programs of study offer students from participating departments opportunities to focus on a particular area of interdisciplinary research as part of their home department’s degree program:

- Biophysics (http://catalog.mit.edu/schools/science/#interdepartmental)
- Molecular and Cellular Neuroscience (http://catalog.mit.edu/schools/science/#interdepartmental)

### Interdisciplinary Graduate Degrees

**Advanced Urbanism**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>PhD</td>
<td>Advanced Urbanism ¹</td>
</tr>
</tbody>
</table>

**Computation and Cognition (Course 6-9P)**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Program</th>
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<tbody>
<tr>
<td>MEng</td>
<td>Computation and Cognition</td>
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</table>

**Computational and Systems Biology**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Program</th>
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<tbody>
<tr>
<td>PhD</td>
<td>Computational and Systems Biology ¹</td>
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</table>

**Computational Science and Engineering**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Program</th>
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<tbody>
<tr>
<td>SM</td>
<td>Computational Science and Engineering ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Aerospace Engineering and Computational Science ¹ ²</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Chemical Engineering and Computation ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Civil Engineering and Computation ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Computational Earth, Science and Planetary Sciences ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Computational Materials Science and Engineering ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Computational Nuclear Science and Engineering ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Environmental Engineering and Computation ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Mathematics and Computational Science ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Mechanical Engineering and Computation ¹</td>
</tr>
<tr>
<td>PhD, ScD</td>
<td>Nuclear Engineering and Computation ¹</td>
</tr>
</tbody>
</table>

**Computer Science and Molecular Biology (Course 6-7P)**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEng</td>
<td>Computer Science and Molecular Biology ¹</td>
</tr>
</tbody>
</table>
**Design and Management (System Design and Management & Integrated Design and Management)**

SM  Engineering and Management

**Health Sciences and Technology (HST)**

SM  Health Sciences and Technology
MD  Medical Sciences (degree from Harvard Medical School)
ScD, PhD  Health Sciences and Technology
ScD, PhD  Health Sciences and Technology—Bioastronautics
ScD, PhD  Health Sciences and Technology—Medical Engineering and Medical Physics

**History, Anthropology, and Science, Technology and Society**

PhD  History, Anthropology, and Science, Technology and Society

**Leaders for Global Operations**

SM/MBA  Engineering/Management

**Microbiology**

PhD  Microbiology

**Oceanography and Applied Ocean Science and Engineering**

SM  Oceanographic Engineering
ScD, PhD  Applied Ocean Science and Engineering
ScD, PhD  Biological Oceanography
ScD, PhD  Chemical Oceanography
ScD, PhD  Marine Geology and Geophysics
ScD, PhD  Physical Oceanography

**Operations Research**

SM  Operations Research
PhD  Operations Research

**Polymers and Soft Matter**

PhD, ScD  Polymers and Soft Matter

**Real Estate Development**

SM  Real Estate Development

**Statistics**

PhD  Aeronautics, Astronautics, and Statistics
PhD  Cognitive Science and Statistics
PhD  Economics and Statistics
PhD  Mathematics and Statistics
PhD  Mechanical Engineering and Statistics
PhD  Neuroscience and Statistics
PhD  Physics, Statistics, and Data Science

**Supply Chain Management**

MASc  Supply Chain Management
MEng  Supply Chain Management

**Technology and Policy**

SM  Technology and Policy

**Transportation**

SM  Transportation
PhD, ScD  Transportation

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1. See Interdisciplinary Programs (http://catalog.mit.edu/interdisciplinary).
2. Students who matriculated in the Department of Aeronautics and Astronautics doctoral program and the Computational Science and Engineering (CSE) doctoral program in academic year 2023–2024 or earlier can choose either PhD/ScD in Computational Science and Engineering or the PhD/ScD in Aerospace Engineering and Computational Science. AeroAstro/CSE students who matriculate in academic year 2024–2025 or later will receive the PhD/ScD in Aerospace Engineering and Computational Science.

3. With the exception of engineering, the SM is only available as an interim degree for doctoral candidates or for those who leave the program before the completion of the doctoral degree.