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

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

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

**Computational and Systems Biology**

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

**Computational Science and Engineering**

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

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

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science and Molecular Biology</td>
<td>MEng</td>
</tr>
</tbody>
</table>

Interdisciplinary Graduate Programs | 3
# Interdisciplinary Graduate Programs

## 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

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1. See Interdisciplinary Programs [here](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.