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](http://catalog.mit.edu/interdisciplinary/graduate-programs/advanced-urbanism))
- **Computation and Cognition** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/computation-cognition](http://catalog.mit.edu/interdisciplinary/graduate-programs/computation-cognition))
- **Computation for Design and Optimization** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/computation-design-optimization](http://catalog.mit.edu/interdisciplinary/graduate-programs/computation-design-optimization))
- **Computational and Systems Biology** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/computational-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](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](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](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](http://catalog.mit.edu/interdisciplinary/graduate-programs/system-design-management))
- **Leaders for Global Operations** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/leaders-global-operations](http://catalog.mit.edu/interdisciplinary/graduate-programs/leaders-global-operations))
- **Microbiology** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/microbiology](http://catalog.mit.edu/interdisciplinary/graduate-programs/microbiology))
- **Operations Research** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/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](http://catalog.mit.edu/interdisciplinary/graduate-programs/polymers-soft-matter))
- **Social and Engineering Systems** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/social-engineering-systems](http://catalog.mit.edu/interdisciplinary/graduate-programs/social-engineering-systems))
- **Statistics** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/phd-statistics](http://catalog.mit.edu/interdisciplinary/graduate-programs/phd-statistics))
- **Supply Chain Management** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/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](http://catalog.mit.edu/interdisciplinary/graduate-programs/system-design-management))
- **Technology and Policy** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/technology-policy](http://catalog.mit.edu/interdisciplinary/graduate-programs/technology-policy))
- **Transportation** ([http://catalog.mit.edu/interdisciplinary/graduate-programs/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](http://catalog.mit.edu/schools/science/#interdepartmental))
- **Molecular and Cellular Neuroscience** ([http://catalog.mit.edu/schools/science/#interdepartmental](http://catalog.mit.edu/schools/science/#interdepartmental))

### Interdisciplinary Graduate Degrees

#### Advanced Urbanism

**PhD** Advanced Urbanism

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

**MEng** Computation and Cognition

#### Computation for Design and Optimization

**SM** Computation for Design and Optimization

#### Computational and Systems Biology

**PhD** Computational and Systems Biology

#### Computational Science and Engineering

**PhD, ScD** Aerospace Computational Engineering
**PhD, ScD** Civil Engineering and Computation
**PhD, ScD** Computational Science and Engineering
**PhD, ScD** Computational Earth, Science and Planetary Sciences

#### Computer Science and Molecular Biology (Course 6-7)

**MEng** Computer Science and Molecular Biology

#### Design and Management (Integrated Design and Management & System 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
### Interdisciplinary Graduate Programs

<table>
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<th>Degree</th>
<th>Program</th>
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<tr>
<td>ScD, PhD</td>
<td>Health Sciences and Technology—Bioastronautics</td>
</tr>
<tr>
<td>ScD, PhD</td>
<td>Health Sciences and Technology—Bioinformatics and Integrative Genomics</td>
</tr>
<tr>
<td>ScD, PhD</td>
<td>Health Sciences and Technology—Medical Engineering and Medical Physics</td>
</tr>
</tbody>
</table>

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

- **PhD**: History, Anthropology, and Science, Technology and Society

**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

**Leaders for Global Operations**

- **SM/MBA**: Engineering/Management

**Microbiology**

- **PhD**: Microbiology

**Operations Research**

- **SM**: Operations Research
- **PhD**: Operations Research

**Polymers and Soft Matter**

- **PhD, ScD**: Polymers and Soft Matter

**Statistics**

- **PhD**: Aeronautics and Astronautics and Statistics
- **PhD**: Cognitive Science and Statistics
- **PhD**: Economics and Statistics
- **PhD**: Mathematics and Statistics
- **PhD**: Neuroscience and Statistics
- **PhD**: Political Science and Statistics
- **PhD**: Social and Engineering Systems and Statistics

**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. 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.