2016 Graduate Admissions

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Introduction

Massachusetts Institute of Technology is an academic community devoted to undergraduate education, graduate education, and research. We have fostered graduate study and research and awarded advanced degrees since 1872.

MIT has been a consistent national leader in the number of master's and doctoral degrees awarded, and ranks highly in the number of doctorates granted in the physical sciences, biological sciences, economics, and mathematics. In addition, other graduate programs in the social sciences and humanities, management, architecture, and urban studies and planning have gained significant prominence.

Approximately 6,000 graduate students are currently enrolled in degree programs. About 2,000 students enter graduate programs each year with baccalaureate degrees from nearly 250 American colleges and universities, and some 60 foreign countries. More than 190 foreign universities are typically represented. Total applications average about 24,000 per year.

MIT’s long tradition of making contributions to knowledge has resulted in extensive resources for graduate study. Graduate students play central roles in all of the Institute’s wide-ranging research activities, making a vital contribution to the educational experience of students, faculty and to the success of the research itself.
Admissions Procedures

Requirements

At MIT, a regular graduate student is one who is registered for a program of advanced study and research leading to a post-baccalaureate degree. A regular graduate student may concurrently hold an appointment as a research assistant, teaching assistant, or instructor.

To be admitted as a regular graduate student, an applicant must have earned a bachelor's degree or its equivalent from a college, university, or technical school of acceptable standing. Students in their final year of undergraduate study may be admitted on the condition that their bachelor's degrees are awarded before they enroll at MIT.

Applicants are evaluated by the individual department in which they intend to register on the basis of their prior performance and professional promise, as evidenced by their academic records, letters of evaluation from individuals familiar with their capabilities, and any other pertinent data they submit. While high academic achievement does not guarantee admission, MIT expects such achievement or other persuasive evidence of professional promise.

Specific admission requirements vary by department; please consult the catalogue and department or program website for the requirements of individual departments. In general, most departments require significant work in mathematics and the physical sciences in addition to preparation in a specific field of interest, but some admit students with as little as one year each of college-level mathematics and physical science. Students with minor deficiencies in preparation may be admitted, but they must make up prerequisite general or professional subjects before proceeding.

Notification of admission for September is usually sent to applicants before April 1. Most departments inform applicants for January/February and June admission as soon as the review of their applications is complete. For detailed information on how to apply, please see page 23.

Standardized Tests

Only official GRE, TOEFL or IELTS score reports are accepted. The MIT reporting code is 3514. Departmental codes, where available, are listed with departmental information beginning on page 4 of this booklet.

Graduate Record Examination

Most MIT departments require the Graduate Record Examination (GRE) General Test and an appropriate Subject Test. Please check the departmental listings beginning on page 4 of this booklet for information on the department to which you intend to apply. The fee for the GRE ranges approximately from $160 to $190 US.

The General Test is offered only on the computer in the US and in most locations around the world. The computer-based GRE General Test is available year round, and appointments are scheduled on a first-come, first-served basis. Register early to maximize your chances of scheduling your preferred test date and time. To register for the GRE General Test call 1-800-GRE-CALL (800-473-2255) or visit www.ets.org/gre.

International English Language Testing System

IELTS exam measures ability to communicate in English across all four language skills – listening, reading, writing, and speaking – for people who intend to study or work where English is the language of communication. Most departments now require this test. Please check the departmental listings beginning on page 4 of this booklet for information on the department to which you intend to apply.

To register for a test, visit http://www.ielts.org.

Test of English as a Foreign Language

Students whose native language is not English may take the Test of English as a Foreign Language (TOEFL). A minimum score of 577 (233 for computer-based; 90 for internet-based) is required for visa certification. Many departments have higher score requirements. See departmental information beginning on page 4 of this booklet. The fee for the TOEFL ranges approximately from $150 to $225 US.

To register, visit http://www.toefl.org/.

Test deadlines vary by department. Please check with the department to which you are applying for their specific deadlines.
Degree Information

Degrees Offered

MIT grants the following degrees:
- Doctor of Philosophy, Ph.D.
- Doctor of Science, Sc.D.
- Engineer's Degree (in engineering departments only)
- Master of Architecture, M.Arch.
- Master of Business Administration, M.B.A.
- Master in City Planning, M.C.P.
- Master of Engineering, M.Eng.
- Master of Finance, M.Fin.
- Master of Science, S.M.

General Requirements

The master’s degree generally requires a minimum of one academic year of study, the engineer's degree two years, and the doctoral degree three or more years beyond a baccalaureate degree in the same field.

Residency

All MIT graduate degree programs have residency requirements, which reflect academic terms (excluding summer). Minimum residency requirements are:

<table>
<thead>
<tr>
<th>Degree</th>
<th>Academic terms required</th>
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</thead>
<tbody>
<tr>
<td>Ph.D.</td>
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<tr>
<td>Sc.D.</td>
<td>4</td>
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<tr>
<td>M.Arch.</td>
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<tr>
<td>S.M.Arch.S.</td>
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<tr>
<td>M.B.A.</td>
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<tr>
<td>M.C.P.</td>
<td>3</td>
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<tr>
<td>Engineer’s Degree</td>
<td>2</td>
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<tr>
<td>M.Eng.</td>
<td>1</td>
</tr>
<tr>
<td>S.M.</td>
<td>1</td>
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</tbody>
</table>

Thesis

All degree requirements include completion of an acceptable thesis prepared in residence at MIT, unless special permission is granted for part of the thesis work to be accomplished elsewhere.

Engineer's Degree

In the School of Engineering, students may be awarded the engineer's degree. This program provides a higher level of professional competence than is required by the program leading to the master's degree, but less emphasis is placed on creative research than in the doctoral program.

Doctoral Degrees

A doctoral degree requires the satisfactory completion of an approved program of advanced study and original research of high quality. The Ph.D. and Sc.D. degrees are awarded, interchangeably, by all departments in the schools of engineering and science (except Biology and Brain and Cognitive Sciences) and in the fields of medical engineering and medical physics. The Ph.D. degree is awarded in the departments of Architecture, Biology, Economics, Linguistics, Management, Operations Research, Philosophy, Political Science, Brain and Cognitive Sciences, History, Anthropology, and Science, Technology and Society (HASTS), Media Arts and Sciences, and Urban Studies and Planning. Admission to MIT for the master's degree does not necessarily imply an automatic commitment by MIT beyond that level of study. A few departments require a doctoral candidate to take a “minor” program outside the principal field. Language requirements vary, and some departments require a thorough knowledge of one relevant foreign language or a reading knowledge of two.

Structure

Department Affiliation

All graduate students, whether or not they are participating in an interdepartmental program, must have a primary affiliation with and be registered in a single department. Every applicant accepted by MIT is admitted through one of the graduate departments. In virtually all cases, financial aid is arranged through individual departments, and a student is awarded a degree only upon the recommendation of his or her specific department.

Interdepartmental Programs

MIT has a number of established interdepartmental programs, and there are many more opportunities for students to arrange interdepartmental programs with interested faculty members. Current programs include:

- Biomedical Engineering
- Computation for Design and Optimization
- Computational and Systems Biology
- Economics and Urban Studies
- Health Sciences and Technology
- Institute for Data, Systems, and Society
- Leaders for Global Operations
- Medical Engineering Medical Physics
- Microbiology
- MIT-Woods Hole Oceanographic Institution (WHOI), Joint Program in Oceanography
- Molecular and Cellular Neuroscience
- Operations Research
- Program in Polymers and Soft Matter
- Real Estate Development
- Technology and Policy Program
- Transportation
### Department Information

#### Aeronautics and Astronautics, Course XVI

**Room:** 33-202  
**Phone:** (617) 253-0043  
**Email:** aagradinfo@mit.edu  
**Website:** http://aeroastro.mit.edu

**Types of degrees offered:**  
S.M., Ph.D., Sc.D.,  
Leaders for Global Operations - SM/MBA

**Term students can be admitted:**  
September  
June (Leaders for Global Operations only)

**Application deadline:**  
December 15 (must be completed by)

**Tests required:**  
IELTS: Minimum score required: 7  
TOEFL: Minimum score required: 600  
(250 for computer-based; 100 for internet-based)  
TOEFL waiver accepted: No

**GRE:** General test required  
Department code: 1601

**Areas of research offered:**  
Aerospace Computational Engineering  
Air-Breathing Propulsion  
Aircraft Systems Engineering  
Air Transportation Systems  
Autonomous Systems  
Communications and Networks  
Controls  
Humans in Aerospace  
Materials and Structures  
Space Propulsion  
Space Systems

**Our students have participated in interdisciplinary study with the following programs:**  
Biomedical Engineering  
Computation for Design and Optimization  
Flight Transportation  
Leaders for Global Operations  
Technology and Policy Program  
System Design and Management  
For a complete list of programs, see MIT Centers, Labs and Programs.

**Special instructions:**  
All applicants must use the AeroAstro specific online application which is on the MIT Graduate Admissions website. Paper applications will not be accepted.

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#### Architecture, Course IV

**Room:** 7-337  
**Phone:** (617) 715-4490  
**Fax:** (617) 253-8993  
**Email:** arch@mit.edu  
**Website:** http://architecture.mit.edu

**Types of degrees offered:**  
M.Arch., S.M.A.C.T., S.M.B.T.,  
S.M.Arch.S., Ph.D.

**Term students can be admitted:**  
September

**Application deadline:**  
December 31 (for September admission)

**Tests required:**  
IELTS: Preferred over TOEFL  
Minimum score required: 7  
(7.5 for PhD candidates in History, Theory, and Criticism)  
TOEFL: Minimum score required:  
110 (iBT) or 650 (PBT) for Ph.D. candidates in History, Theory, and Criticism;  
110 (iBT) or 650 (PBT) for all other programs  
TOEFL waiver accepted: No  
Department code: 4401

**GRE:** Yes  
(M.Arch, S.M.B.T., Ph.D. applicants in History, Theory, and Criticism)  
Department code: 4401

**Areas of research offered:**  
Architectural Design (S.M.Arch.S)  
Architecture and Urbanism (S.M.Arch.S)  
Art, Culture and Technology (S.M.)  
Building Technology (S.M., S.M.Arch.S., Ph.D.)  
Design and Computation (S.M.Arch.S. and Ph.D.)  
History, Theory, and Criticism of Architecture (S.M.Arch.S. and Ph.D.)  
History, Theory, and Criticism of Art (Ph.D.)  
Aga Khan Program for Islamic Architecture (S.M.Arch.S.)

**Special instructions:**  
1) All applicants must use the Architecture specific online application, which is on the MIT Graduate Admissions web site.  
2) A scanned PDF of an original transcript (or English translation) from each university should be uploaded in the application. Only those applicants who are accepted for admission will be required to send a hard copy of an official, sealed transcript (with English translation) from each school attended, to: Architecture Graduate Admissions;

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#### Biological Engineering (BE), Course XX

**Room:** 16-267  
**Phone:** (617) 253-1712  
**Fax:** (617) 253-5208  
**Email:** be-acad@mit.edu  
**Website:** http://be.mit.edu

**Types of degrees offered:**  
M.Eng. in Biomedical Engineering  
(S.M. in Molecular and Systems Toxicology (for MIT undergraduates only)  
S.M. in Biological Engineering (Leaders for Global Operations only)  
Ph.D., Sc.D. in Biological Engineering

**Terms students can be admitted:**  
September  
June (Leaders for Global Operations only)

**Application deadline:**  
December 15

**Tests required:**  
IELTS: Minimum score required: 7  
GRE: General test required  
Department code: 1603

**Return applications to:**  
BE, Room 16-267

**Areas of Research offered for the Ph.D. Degree:**  
Biological Imaging  
Biomaterials  
Biomechanics  
Biomolecular Engineering  
Biophysics  
Carcinogenesis  
Computational Modeling  
Drug Delivery  
Drug Metabolism  
Energy  
Infectious Disease  
Microbial Pathogenesis

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77 Massachusetts Ave., Rm. 7-337; Cambridge, MA 02139. Any discrepancy between the scanned transcripts and official transcripts may result in a rejection or withdrawal of our admission offer. Applicants should NOT send any supplemental material with their applications.

3) Some degree programs require a portfolio of design work and/or writing sample (maximum 30 pages). Applicants should follow instructions detailed on the Architecture website under the degree program of their interest.
Microbial Systems
Nanoscale Systems
Neurobiological Engineering
Omics
Pharmacology
Synthetic Biology
Systems Biology
Tissue Engineering
Toxicology
Transport Phenomena

Special instructions:
Applicants are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please complete the section for courses most relevant to this graduate program and the additional courses section. Group courses by subject area, and complete each column.

Biology, Course VII
Room: 68-120
Phone: (617) 253-3717
Fax: (617) 258-9329
Email: gradbio@mit.edu
http://web.mit.edu/biology/www/graduate

Type of degree offered:
Ph.D.

Term students can be admitted:
September

Application deadline:
December 1

Tests required:
IELTS: Minimum score required: 6.5
TOEFL: Minimum score required: 577
(233 for computer-based)
TOEFL may be waived by department
Department code: 0203
GRE: general test only
Department code: 0203

Mailing Address for transcripts:
Massachusetts Institute of Technology
Biology Education Office
77 Massachusetts Avenue, 68-120
Cambridge, MA 02139

Areas of research offered:
Biochemistry
Bioengineering
Bioinformatics/Computational Biology
Cancer Biology
Cell Biology
Developmental Biology
Genetics
Human Genomics
Immunology
Microbiology
Molecular Medicine and Human Diseases
Neurobiology
Physiology
Plant Molecular Biology

Structural Biology and Biophysics
MIT-WHOI Joint Program in Oceanography, Course VII-W
Biological Oceanography
Ecology and Evolution
Marine Biology
Marine Toxicology
Microbiology
Molecular Ecology

Special instructions:
Biology requires ALL applicants to use the online application which is on the MIT Graduate Admissions website and the Biology Department website. Applicants should not send published papers, theses, writing samples or other supplemental material with their application. All recommenders must submit online. Applicants to the Department of Biology do not need to complete the Financial Statement form. Applicants to the MIT-WHOI joint program should see MIT-WHOI Joint Program in Oceanography section on page 15 for instructions on application deadline, where to return application, and for all other information. Applicants are NOT required to complete the Record of Courses Taken in Preparation for Graduate Study form.

Brain and Cognitive Sciences, Course IX
Room: 46-2005Q
Phone: (617) 253-7403
Fax: (617) 253-9767
Email: bcs-admissions@mit.edu
http://bcs.mit.edu

Type of degree offered:
Ph.D. in Cognitive Science,
Ph.D. in Neuroscience

Term students can be admitted:
September

Application deadline:
December 1

Tests required:
IELTS: Minimum score required: 7
TOEFL: Minimum score required: 577
(233 for computer-based; 90 for iBT)
IELTS or TOEFL may be waived by department; make request by sending email to bcs-admissions@mit.edu.
Department code: 58
GRE: general test only
Department code: 0213 (Neurosciences)
2002 (Cognitive Psychology)
MCAT: Only allowed for Harvard MD/PhD

Mailing address for Transcripts:
Massachusetts Institute of Technology
Department of Brain and Cognitive Sciences
77 Massachusetts Ave, Building 46-2005Q
Cambridge, MA 02139-4307

Upload one copy of transcript(s) from all universities you have attended. If you're admitted to the department, we'll require you to have an official copy of your transcript(s) sent to us from the university's registrar. Your transcript will be verified upon receipt and any discrepancy between the transcript you uploaded and the official transcript will result in a withdrawal of our offer of admission.

Areas of research offered:
Cellular and Molecular Neuroscience
Cognitive Science
Computation
Systems Neuroscience

Special instructions:
Brain and Cognitive sciences requires ALL applicants to use the online application which is on the MIT Graduate Admissions website. Applicants should not send published papers, theses, writing samples or other supplemental material with their application. Applicants are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please complete the section for courses most relevant to this graduate program. The additional courses section is not required. Group courses by subject area, and complete each column.

Center for Real Estate (CRE)
Room: 9-343
Phone: (617) 253-4373
Fax: (617) 258-6991
Email: mit-msred_admissions@mit.edu
https://gradapply.mit.edu/mitcre.mit/cre

Type of degree offered:
S.M.

Term students can be admitted:
September

Application deadline:
January 15

Tests required:
IELTS: Minimum score required: 7.5
TOEFL: Minimum score required: 100
TOEFL waiver accepted: No
School code: 3514
Department code: 99
GRE: Yes
School code: 3514
Department code: 4409

GMAT: Yes
Department code: X5X-W6-19

Mailing address for Transcripts:
Program Admissions, 77 Mass. Ave, Building 9-343, Cambridge, MA 02139
Applicants to MIT/CRE Program should upload and the official transcript will result in a withdrawal of our offer of admission. Applicants to MIT/CRE Program should upload additional application instructions/materials at: http://mitcre.mit.edu/masters-program/admissions/application

Online application is required.
GRE or GMAT, TOEFL or IELTS scores must be received by January 15.

(continued)
Applicants are NOT required to complete the Record of Courses Taken in Preparation for Graduate Study form.

**Chemical Engineering, Course X**

**Room:** 66-366  
**Phone:** (617) 253-4577  
**Fax:** (617) 253-9695  
**Email:** chemegrad@mit.edu  
http://web.mit.edu/cheme/  
**Types of degrees offered:**  
S.M., Ph.D., Sc.D.  
**Terms students can be admitted:**  
September  
**Application deadline:**  
December 1  
**Tests required:**  
Chemical Engineering requires IELTS or TOEFL; score reports for any candidate whose native language is not English. This requirement is waived if the candidate has or will earn a BS degree at a US university.  
IELTS: Minimum score required: 7  
TOEFL: Minimum score required: 600 (250 for computer-based; 100 for internet-based)  
IELTS or TOEFL will not be waived by the Department.  
**GRE:** general test required; subject test in Chemistry or Engineering optional  
**Department code:** 1001  
**Areas of research offered:**  
Biochemical Engineering  
Biomedical Engineering  
Biotechnology  
Catalysis and Chemical Kinetics  
Colloid Science and Separations  
Energy Engineering  
Environmental Engineering  
Materials  
Microchemical Systems, Microfluidic Nanotechnology  
Polymers  
Process Systems Engineering  
PPSM: Program in Polymers and Soft Matter  
Thermodynamics, Statistical Mechanics and Molecular Simulation  
Transport Processes  
**Special instructions:**  
All applicants must use the Chemical Engineering specific online application. Visit http://web.mit.edu/cheme/academics/grad/applytogradschool.html for further instructions.

**Chemical Engineering Practice, Course X-A**

**Room:** 66-366  
**Phone:** (617) 253-4577  
**Fax:** (617) 253-9695  
**Email:** chemegrad@mit.edu  
http://web.mit.edu/cheme/graduate/practice/  
**Types of degrees offered:**  
S.M., Ph.D.C.E.P. (September admission only)

**Chemistry, Course V**

**Room:** 6-205  
**Phone:** (617) 253-1851  
**Fax:** (617) 258-0241  
**Email:** chemgradeducation@mit.edu  
http://chemistry.mit.edu/  
**Type of degree offered:**  
Ph.D.  
**Term students can be admitted:**  
September  
**Application deadline:**  
December 15  
**Tests required:**  
IELTS: Preferred  
Minimum score required: 7  
TOEFL: Minimum score required: 600 (250 for computer-based)  
IELTS or TOEFL may be waived by department  
**Department code:** 62  
**GRE:** general test required; subject test recommended  
**Department code:** 0301  
**Areas of research offered:**  
Biological Chemistry  
Bio-Organic Chemistry  
Inorganic Chemistry  
Materials  
Organic Chemistry  
Physical Chemistry  
Theory  
**Special instructions:**  
All applicants must use the online application specific to the Department of Chemistry. This application is available on the MIT Graduate Admissions website and the Department of Chemistry website. The chemistry department encourages that, if possible, you mention in your Statement of Objectives essay, specific faculty whose research is of interest to you.  
Applicants are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please list science and mathematics courses only. Group courses by subject area, and complete only the columns for course name, academic year, and official grade.  
Only official transcripts will be accepted by mail. No other materials will be accepted. An official copy of your transcript should be mailed to:  
Department of Chemistry, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Room 6-205, Cambridge, MA 02139.

**Civil and Environmental Engineering, Course I**

**Room:** 1-290  
**Phone:** (617) 253-7119  
**Email:** cee-admissions@mit.edu  
http://cee.mit.edu/graduate/admissions  
**Types of degrees offered:**  
M.Eng., M.S.T., S.M., Civil Engineer's Degree, Ph.D., Sc.D.  
**Terms students can be admitted:**  
September  
**Application deadline:**  
December 15  
**Tests required:**  
GRE: general test only  
**Department codes:** 1102 or 1103  
**Areas of research offered:**  
S.M./Ph.D Programs  
Environmental Science & Engineering  
Environmental Chemistry  
Environmental Fluid Mechanics  
Environmental Microbiology  
Hydrology and Hydroclimatology  
Mechanics  
Geotechnical Engineering  
Geomechanics  
Mechanics of Materials  
Structures  
M.S.T.  
Interdepartmental Program in Transportation  
Joint Programs  
Leaders for Global Operations  
Woods Hole Oceanographic Institution  
**Academic Records (Transcripts):**  
A PDF copy of an original transcript (in English) from each university should be uploaded to the application portal. Only admitted students will be asked to send an original transcript to:  
Civil & Environmental Engineering Admissions  
77 Massachusetts Ave. Room 1-290  
Cambridge, MA 02139
Special instructions:
Applicants are expected to use the online application at https://gradapply.mit.edu/cee. CEE’s application help page is http://cee.mit.edu/graduate/online-application-help. Applicants should NOT send any supplemental materials.

### Comparative Media Studies (CMS)

| Room: | 14N-338 |
| Phone: | (617) 253-6668 |
| Fax: | (617) 253-6910 |
| email: | cms-admissions@mit.edu |
| http://cmsw.mit.edu/education/comparative-media-studies/ |
| masters/how-to-apply/ |
| Type of degree offered: | S.M. |
| Term students can be admitted: | September |
| Application deadline: | January 1 |
| Tests required: | GRE: general test required; |
| International students: | IELTS: Minimum score required: 7 |

CMS does not accept the TOEFL exam.

Special instructions:
Applicants are expected to use the online application. All additional materials should be uploaded to the electronic application. Original transcripts are only required upon acceptance and should be mailed to: Comparative Media Studies Massachusetts Institute of Technology 77 Massachusetts Avenue, Room 14N-338 Cambridge, MA 02139-4307

Writing samples are required from all applicants and should consist of an academic research paper or one chapter of a longer project. Non-academic writing, such as journalistic pieces, does not qualify as a writing sample. If the context is not clear, please provide a brief description. If the work represents a collaboration, please explain. Writing samples must be submitted electronically.

Applicants are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please list all courses that are relevant to Comparative Media Studies. Group courses by subject area, and complete each column except the one that asks for textbooks used in each course.

Applicants who wish to be considered for financial aid should identify at least one research group suitable to their background, academic interests, and research goals. http://cmsw.mit.edu/research-groups/

### Computation for Design and Optimization (CDO)

| Room: | 35-329 |
| Phone: | (617) 253-3725 |
| email: | cdo_info@mit.edu |
| http://cdo.mit.edu |
| Type of degree offered: | S.M. |
| Term students can be admitted: | September |
| Application deadline: | January 11 |
| Tests required: | GRE: general test required; |
| International Students: | Applicants from non-English speaking countries are required to take the IELTS. CDO no longer accepts the TOEFL exam. A waiver may be considered only under special circumstances. |

Special instructions:
All applicants are required to use the unique CDO online application on the MIT Graduate Admissions website, http://web.mit.edu/admissions/graduate/how-to_apply/. The application will be activated in September. All supporting materials, including transcripts, should be uploaded to the electronic application. Official transcripts are only required upon acceptance and will be requested at a later date.

Mailing address:
CDO Administrator, Room 35-329 MIT, 77 Massachusetts Avenue Cambridge, MA 02139-4307

### Computational and Systems Biology (CSB)

| Room: | 68-230a |
| Phone: | (617) 324-4144 |
| Fax: | (617) 253-8699 |
| email: | csbphd@mit.edu |
| http://csbi.mit.edu |
| Type of degree offered: | Ph.D. |
| Term students can be admitted: | September |
| Application deadline: | December 15 |
| Tests required: | GRE: general test required; IELTS: Minimum score required: 7 |
| Joint Departments: | Aeronautics and Astronautics Chemical Engineering Civil and Environmental Engineering Mechanical Engineering Nuclear Science & Engineering |

Special instructions:
Most departments require the completion of an SM degree before admission to the PhD program is granted. As a result, applicants to those departments holding a Bachelor’s degree will be considered for admission to the SM program of the participating department with an ultimate degree objective of PhD in CSE.
Earth, Atmospheric, and Planetary Sciences, Course XII

Room: 54-912
Phone: (617) 253-3381
Fax: (617) 253-8298
email: capsinfo@mit.edu
http://eapsweb.mit.edu

Types of degrees offered:
S.M., Ph.D., Sc.D.

Terms students can be admitted:
February (contact department),
June (Students admitted for September must start in June),
September (Please note that September is our main admissions period.)

Application deadlines:
November 1 (for February admission)
January 5 (for June and September admission)

Tests required:
IELTS: Minimum score: 7
TOEFL: Minimum score: 600 (250 for computer-based; 100 for internet-based) TOEFL
Department codes: 61 (Astronomy), 71 (Geology)
IELTS/TOEFL may be waived by the department for those students who will have completed a four-year program of study conducted entirely in English; make request in writing.
GRE: general test required for all applicants; subject test required in either Chemistry or Physics for the Planetary Science program.
Department code: 0599

Areas of research offered:
Atmospheric Science (dynamics, chemistry, and paleoclimate)
Climate Physics and Chemistry (biogeochemical cycles, physical oceanography, climate and paleoclimate)
Geobiology
Geology
Geophysics
Planetary Sciences
(asteroids, Extra-Solar planets, planetary dynamics, planet history/paleomagnetism)

Special instructions:
Applicants must apply online. Paper applications will not be considered. Applicants are required to complete the “Subjects Taken” form. Include all science and mathematics courses, and group the courses by area [i.e. all physics courses together, all chemistry courses together, etc.]. Mathematics is considered an important part of our program. Please list the group with your mathematics courses first. In some instances there will be other courses beyond the sciences that are relevant to your application. If that is the case, please include those courses, listing them at the end.

Do not try to convert your university grading scale or GPA to MIT’s scale. Enter the grades/GPA as granted by your school.

Academic Records (Transcripts):
An original copy of your transcript from each college or university, translated into English, should be uploaded as an attachment in PDF format to your application. No other attachments will be accepted. Hard copies sent via post by an applicant will not be accepted. Only those applicants who are accepted for admission will be required to submit a hard copy of their transcripts. Any discrepancy between the scanned transcripts and official transcripts may result in a rejection or withdrawal of our admission offer.

Economics, Course XIV

Room: E19-717
Phone: (617) 253-8787
email: econ-admit@mit.edu
http://economics.mit.edu/

Type of degree offered: Ph.D.

Term students can be admitted: September

Application deadline: December 15

Tests required:
IELTS: Minimum score required: 7
TOEFL: Minimum score required: 100 (250 for computer-based)
TOEFL may be waived by department
Department code: 78 (Computer Science)
66 (Electrical Engineering)
GRE: No (Except for LGO)

Areas of research offered:
Artificial Intelligence
Bioelectrical Engineering
Circuit Design
Communications
Computational Biology
Computer Graphics
Computer Networks
Computer Systems and Architecture
Devices and Materials
Electromagnetic Energy, Fields and Waves
Signal Processing
Systems, Decision and Control
Theoretical Computer Science

Joint Programs:
Leaders for Global Operations
Woods Hole Oceanographic Institution

Special instructions:
Applicants must apply online. Paper applications will not be considered. Applicants are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please list economics and mathematics courses only. Group courses by subject area, and complete each column. You may upload a resume or CV electronically to your application. Hard copies sent via post will not be accepted. Official copies of transcripts should be scanned and uploaded to your online application. When necessary, please have records translated into English. All applicants are required to send by the application deadline, via post, an official, sealed transcript from each school attended. Any discrepancy between the scanned transcripts and official transcripts may result in a rejection or withdrawal of our admission offer. Upon request, mail transcripts to MIT Department of Economics, 77 Massachusetts Ave. Room E19-717, Cambridge, MA 02139.

Electrical Engineering and Computer Science, Course VI

Room: 38-444
Phone: (617) 253-4603
Fax: (617) 258-7354
email: grad-ap@eecs.mit.edu
http://www.eecs.mit.edu

Type of degrees offered:
M.Eng. (for MIT Undergraduates only), S.M., Engineer's Degree, Ph.D., Sc.D.

Leaders for Global Operations Program:
S.M. from E.E.C.S. and M.B.A./S.M. from Sloan

Term students can be admitted:
September (For Regular Admission)
June (Leaders for Global Operations)

Application deadline:
December 15

Tests required:
IELTS: Preferred
Minimum score required: 7
TOEFL: Minimum score required: 100 (250 for computer-based)
TOEFL may be waived by department
Department code: 78 (Computer Science)
66 (Electrical Engineering)

GRE: No (Except for LGO)

Areas of research offered:
Computer Engineers
Computer Systems and Architecture
Computer Networks
Computer Networks and Internet
Computer Systems
Electrical Engineering
Joint Programs:
Leaders for Global Operations
Woods Hole Oceanographic Institution

Special instructions:
Electrical Engineering and Computer Science requires ALL applicants to use the on-line EECS Graduate Application site which can be accessed from the MIT Graduate Admissions website. The EECS Graduate Application site will be activated in mid-September, is unique to EECS, and is not used by any other department. If you are applying to joint programs and want EECS to be your collaborative department, or if you are applying to a joint program and also want to be considered for regular EECS Ph.D. admission, you should use the online application. Applicants should not send published papers or theses. The only paper documents needed are your transcripts.
Technology and Policy Program (TPP)
Room: E40-369
Phone: (617) 258-7295
e-mail: tpp@mit.edu
http://web.mit.edu/tpp
Term students can be admitted: September
Application deadline: December 15
Tests required:
IELTS: Minimum score required: 7.5
GRE: general test required. Strong candidates for the program typically score in the top 10 percent of all three GRE areas (verbal, quantitative, and analytic writing).
Possible areas of research:
Aerospace Systems
Assistive Technologies
Climate
Complex Socio-Technical System Analysis
Development Policy
Energy
Environment
Health Care, Pharmaceutical, and Service Industries
Human-Systems Engineering
Industries/Industrial Studies
Information Technology, Information Systems, Software Engineering
Innovation/Innovation Policy
International Relations
Logistics and Supply Chain Management
Manufacturing (economics, materials, environmental policy, strategy)
Networks, Distributed Simulation Systems
Product and Process Design and Development, Technical Innovation
Risk and Safety Analysis
Risk Management/Decision Analysis
Science and Technology Policy
Social and Organizational Psychology/ Learning
System Architecture, Systems Engineering, Transportation Systems
Special instructions:
Applicants must apply online. Paper applications will not be considered.
The Technology & Policy Program (part of the Institute for Data, Systems, and Society) requires applicants to use the online TPP Graduate Application site which can be accessed from the MIT Graduate Admissions website.
Applicants must also arrange for official transcripts and test scores to be sent to TPP for verification purposes.

Harvard-MIT Health Sciences and Technology (HST)
Room: E25-518
Phone: (617) 253-3609
Fax: (617) 253-6692
e-mail: hst-phd-admissions@mit.edu
http://hst.mit.edu
Types of degrees offered:
Medical Engineering and Medical Physics (MEMP): Ph.D., Sc.D.
Please note that HST’s programs in Neuroimaging, and Bioastronautics fall within MEMP; candidates interested in these programs should apply to MEMP.
Term students can be admitted: September
Application deadline: December 15
Tests required:
IELTS: Minimum score required: 7
TOEFL: Minimum score required: 100 (iBT) or 600 (PBT)
GRE: General test required
Department code: 0600
HST requires IELTS or TOEFL score reports for any candidate whose native language is not English. This requirement is waived if the candidate attended a secondary school taught in English and should be noted as such in the Test Scores/Experience section. Other waiver inquiries should send email.

Academic Records (Transcripts):
A PDF copy of transcript (in English) from each university should be uploaded with the application. Only candidates invited to interview will be required to have official, original, sealed transcripts sent to us from their university’s registrar.

Special Instructions:
HST requires all applicants to use the online application, see instructions below.
Applications through MIT are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please complete the section for courses most relevant to this graduate program. Group courses by subject area, and complete each column. All test scores and letters of recommendation must be received no later than December 31 for an application to be considered complete.

(continued)
**MEMP THROUGH MIT**
Applicants should apply on-line at https://gradapply.mit.edu/hst (recommended)
For detailed instructions, see http://hst.mit.edu/academics/memp/admissions

**MEMP THROUGH HARVARD**
Applicants should apply online at http://www.gsas.harvard.edu/prospective_students/admissions_overview.php
For detailed instructions, see http://hst.mit.edu/academics/memp/admissions

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**History, Anthropology, and Science, Technology and Society (HASTS)**

**Room:** 5E1-163  
**Phone:** (617) 253-9759  
**Email:** hasts@mit.edu  
http://web.mit.edu/hasts/

**Type of degree offered:**

**Term students can be admitted:**
September

**Application deadline:**
December 15

**Tests required:**
- IELTS: Minimum score required: 7
- TOEFL: Minimum score required: 90 (iBT)  
  233 for computer-based  
  577 for paper-based  
  IELTS or TOEFL may be waived by department.
- GRE: general test required  
  Department code: 2703

**Special instructions:**
Applicants to History, Anthropology, and Science, Technology and Society (HASTS) are required to submit a writing sample by uploading a PDF in the online application. There are no specific parameters in terms of content, but the length should not exceed that of a chapter or article.

Transcripts should also be scanned and uploaded in the online application. When necessary, please have records translated into English. If you cannot provide scanned documents you should send a notice to hasts@mit.edu stating the problem. Applicants who are advanced to the next stage of our admissions process will be required to provide an official, sealed transcript from each school attended.

Applicants are NOT required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please see http://web.mit.edu/hasts/admissions for more information about submitting your application.

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**Interdisciplinary Programs**

**Health Sciences and Technology (HST), Joint Program with Harvard**
MIT-WHOI, Joint Program in Oceanography (S.M., Ph.D., Sc.D.)

**Leaders for Global Operations (LGO)** (dual degree M.B.A. & S.M. from Sloan School of Management and School of Engineering)

**Medical Engineering/Medical Physics (MEMP) (Ph.D.)** – see HST

**Microbiology (MICRO) (Ph.D)**

**Operations Research Center (ORC) (S.M., Ph.D)**

**Program in Polymers and Soft Matter (PPSM) (Ph.D.)**

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**Leaders for Global Operations Program**

The program awards a dual-degree MBA & SM in an engineering field. Applicants apply with one application, either through MIT Sloan's application system or through the participating engineering department's application page.

**Room:** E40-315

**Phone:** (617) 253-1055  
**Fax:** (617) 253-1462  
**Email:** lgo@mit.edu  
http://lgo.mit.edu

**Types of degrees offered:**
All LGO students receive an S.M. from the School of Engineering and either an M.B.A. or S.M. from the Sloan School of Management

**Term students can be admitted:**
June

**Tests required:**
If applying through Sloan, the applicant may submit either the GMAT or the GRE. If applying through the School of Engineering, the applicant must submit the GRE. The applicant should check with the specific engineering department to see if other tests are required.

**Application deadline:**
December 15 (Regardless of engineering department deadline)

**Areas of research offered:**

- Manufacturing, operations, high-tech management, systems engineering
- Aeronautics and Astronautics
- Biological Engineering
- Chemical Engineering
- Civil and Environmental Engineering
- Electrical Engineering and Computer Science
- Mechanical Engineering

**Special instructions:**
See the LGO website for specific application details: http://lgo.mit.edu/apply.

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**Linguistics and Philosophy, Course XXIV**

**Room:** 32-D808  
**Phone:** (617) 253-4141  
**Fax:** (617) 253-5017

**Email:** lp-admissions@mit.edu  
http://web.mit.edu/linguistics/graduate/admissions/  
http://web.mit.edu/philos/philosophy/admission.html

**Type of degree offered:** Ph.D.

**Term students can be admitted:**
September

**Application deadline:**
January 2

**Tests required:**
The department of Linguistics and Philosophy will accept TOEFL or the IELTS.

**TOEFL:**
- Minimum score required: 90 (iBT)
- 577 PBT
- TOEFL may be waived by department

**GRE:**
- General test required for Philosophy Program
- Department Code: 2804
- GRE not required for Linguistics Program

**Areas of research offered:**

- Linguistics
- Philosophy

**Special instructions:**
Applicants to the Department of Linguistics and Philosophy are required to submit a writing sample as part of their application. Applicants to the Linguistics Program should include copies of one or more research papers or other written work relevant to their application. These papers need not necessarily be about linguistics, but they should demonstrate an applicant's ability to pursue serious scholarly inquiry. Submitting more than one piece of work is especially appropriate for applicants with research experience in multiple relevant areas. Papers, research reports, theses, or insightful solutions to problem sets are all helpful in assessing an application. At least one of the writing samples should be written in English, but submissions in other languages can sometimes...
also be reviewed. Please try to limit your writing sample to a maximum of 100 pages in total (less is fully acceptable). If this is impossible (for example, because you wish to include a lengthy undergraduate thesis), please indicate particular sections that you consider especially interesting or representative.

Sample research summary (maximum length: 3 pages): In addition to the information about your goals and accomplishments that we can learn from your statement of purpose and writing sample, the Linguistics Program would like to learn more about how you approach scientific questions and puzzles. To this end, your application should also include a short summary of one of the research projects or problems discussed in your writing sample. The summary should cover the following points in a compact and logically transparent way:

1. What questions does your project attempt to answer?
2. Why do you find these questions interesting?
3. How does the project try to answer these questions?
4. What questions remain open (or are likely to remain open) at the conclusion of the project? What might you do next, and why?

As an alternative, you may also propose a project that you have not undertaken, if you have thought about it with enough depth and care to answer the questions listed above. The summary should be understandable and engaging to an educated reader who is not necessarily a specialist in the area of the project. The described project does not need to reflect actual goals or plans for doctoral research (and need not be a project in linguistics).

Applicants to the Philosophy Program should submit a writing sample in philosophy, ideally of 15–25 pages in length. The writing sample should allow us to assess the applicant’s understanding of a philosophical problem, and ability to evaluate philosophical arguments. This assessment is usually easier if the writing sample explicitly engages with some of the contemporary philosophical literature.

Applicants to the Linguistics Program are NOT required to complete the Record of Courses Taken in Preparation for Graduate Study form.

Applicants to the Philosophy Program are required to list only relevant texts and authors on the Record of Courses Taken in Preparation for Graduate Study form.

### Materials Science and Engineering, Course III

**Room:** 6-107  
**Phone:** (617) 253-3855  
**email:** dmse-admissions@mit.edu  
http://www-dmse.mit.edu/

**Types of degrees offered:**  
S.M., Engineer’s Degree, Ph.D., Sc.D.

**Terms students can be admitted:**  
September

**Application deadline:**  
December 15 (must be received by)

**Tests required:**  
GRE: general test required  
Department code: 1402 (Materials Engineering)  
1403 (Materials Science)  
IELTS: Minimum score required: 7  
IELTS may be waived by Department.  
The IELTS requirement will only be waived (1) if you have received instruction in English in primary and secondary school or (2) if you have been in the US for three years and will have received a degree from an American institution before entering MIT. Waiver requests will only be reviewed after paid submission of the MIT graduate admissions application. To request a waiver, include a statement in the comments section of the online application. Note that waivers are infrequent, and will not be granted for TOEFL substitution. If the waiver is not approved, you will need to take and submit the IELTS score by mid-January.

Note: The TOEFL is not accepted.

**Return applications to:**  
Department of Materials Science and Engineering, Room 6-107

**Areas of research offered:**  
Archaeological Materials  
Biological and Polymeric Materials  
Computational Materials Science  
Materials for Energy and the Environment  
Materials Economics and Manufacturing  
Nanotechnology, Nanodevices, and Nanomaterials  
Electronic, Photonic, and Magnetic Materials  
High-performance Structural  
Materials and Alloys  

And are complemented by focused programs that include:  
Program in Polymers and Soft Matter

You can indicate your interest in these focused programs on your application.

**Special instructions:**  
Applicants are NOT required to complete the Record of Courses Taken in Preparation for Graduate Study form.

### Mathematics, Course XVIII

**Room:** E18-366  
**Phone:** (617) 452-2007  
**Fax:** (617) 253-4358  
**email:** gradofc@math.mit.edu  
http://www-math.mit.edu/grad/  

**Type of degree offered:**  
Ph.D.

**Term students can be admitted:**  
September

**Application deadline:**  
December 15 (must be received by)

**Tests required:**  
IELTS: Minimum score required: 6  
TOEFL: will accept TOEFL iBT (not PBT) in lieu of IELTS.  
GRE: general and subject test required  
Department code: 0703 (Mathematics)

**Special instructions:**  
The Department of Mathematics encourages ALL applicants to use the online application which is on the MIT Graduate Admissions website and will be activated in September. This application is unique to Math and is not used by any other department. Applicants should not send published papers or theses. The only paper documents needed are official transcripts and these are required only after a student has been offered admission.

### Mechanical Engineering, Course II

**Room:** 1-112  
**Phone:** (617) 253-2291  
**Fax:** (617) 258-5802  
**email:** megradoffice@mit.edu  
http://meche.mit.edu

**Types of degrees offered:**  
S.M., M.Eng (for Master of Engineering in Manufacturing only - not to be confused with the Master of Science in Mechanical Engineering), Naval Engineer, Ph.D., Sc.D., Leaders for Global Operations Program - SM from ME and M.B.A./SM from Sloan.

**Terms students can be admitted:**  
June, September

**Application deadlines:**  
December 15

**Tests required:**  
IELTS: Preferred  
Minimum score required: 7  
Waiver accepted: No  
GRE: general test required  
Department code: 1502  
TOEFL: (min 100 IBT, 233 cht, 577pbt)

(continued)
Areas of research offered:
Applied Mechanics
Automotive & Aircraft Engines
Biomaterials
Biomechanics (LGO only)
Biomechanics & Neural Control of Movement
Biomedical Engineering
Biorobotics
Combustion
Computational Fluid Dynamics
Computational Mechanics
Computer-Aided Design/Manufacturing Controls
Cryogenics
Desalination
Design
Dynamics
Energy and Environmental Sustainability (LGO only)
Energy and Power
Environmental Engineering
Finite Elements
Fluid Mechanics
Heat and Mass Transfer
Human-Machine Systems
Instrumentation
Internal and External Combustion Engines
Management of Technology Manufacturing (LGO only)
Materials
Mechanical Behavior of Materials
Mechanics
Mechanics of Materials
MEMS and Nanotechnology
Micro-Electro-Mechanical Systems
Microfluid
Ocean Systems Management (LGO only)
Optical Engineering
Optical Measurement
Precision Engineering
Robots, Manipulators and Teleoperators
Systems Design and Management
Technology and Policy
Thermodynamics
Transportation

MIT-WHOI Joint Program in Oceanography, Course II-W
Hydrodynamics of Vehicles
Telepresence
Underwater Robotics

Special instructions:
The only paper documents needed are your transcripts.

Center for Ocean Engineering

Degree programs:
Ocean Engineering
Naval Architecture and Marine Engineering

Areas of research offered:
Acoustics
Applied Mechanics
Computer-Aided Design and Fabrication
Environmental Engineering
Fluid Mechanics
Hydromechanics
Ocean Engineering
Structural Mechanics
Underwater Vehicle Design
Welding Fabrication
Naval Construction and Engineering
Naval Engineering
Ship Design

MIT-WHOI Joint Program in Oceanography
Environmental Acoustics
Oceanography

Media Arts and Sciences (MAS)

Room: E15-435D
Phone: (617) 253-5114
Fax: (617) 253-8542
email: mas@media.mit.edu
http://www.media.mit.edu/mas

Types of degrees offered:
S.M., Ph.D.

Term students can be admitted:
September

Application deadline:
December 15

Tests required:
All applicants from non-English speaking countries must take the IELTS exam; TOEFL is not accepted.
IELTS: Minimum score required: 7
Department code: 3514
IELTS can be waived by the department under certain circumstances (1) if you have received instruction in English in primary and secondary school or (2) if you have been in the US for three years and will have received a degree from an American institution before entering MIT. Requests should be made in writing well in advance of the application deadline. By December 15.
GRE: No

Special instructions:
1) Applicants must specify three faculty with whom they are applying to work. A list of faculty groups who are admitting students can be found at http://www.media.mit.edu/mas/admissions/research-groups
2) Portfolios (containing publications, theses, awards, designs and other work) should be submitted as a URL in the appropriate field in the application.
3) All supplemental materials should be submitted using the online application system. Hardcopies are not accepted.

Microbiology (MICRO)

Room: 68-139
Phone: (617) 324-0055
Fax: (617) 253-8699
email: microbiology@mit.edu
http://microbiology.mit.edu

Types of degrees offered:
Microbiology Ph.D.

Term students can be admitted: September

Application System Opens: October 1
Application deadline: December 1

Applicants apply on-line at:
https://gradapply.mit.edu/microbiology/

For fullest consideration, it is in your best interest to complete ALL parts of the application including applicable data entry fields and attaching required transcript(s), test score documents, all evaluation letters, and the application fee, by or before the deadline of December 1st. Incomplete applications may not be reviewed. The scanned and attached copies of your transcript(s), GRE and IELTS/IELTS scores are considered unofficial, but are sufficient for review purposes. Official documents will be required before a positive admissions decision can be made. To avoid delay, have all your official test scores transmitted electronically to MIT Admissions before the December 1st deadline.

Tests required:
GRE: General test required, Subject test optional
IELTS: Minimum score required: 6; most applicants should have scores of 7 or higher. To have IELTS results reported, indicate Microbiology Graduate Program, MIT on your IELTS test application. No code or address is needed.

Official transcripts should be mailed to:
Microbiology Graduate Program, Room 68-139

Areas of research offered:
Biochemical, Chemical, and Structural Microbiology
Bioenergy and Metabolic Diversity
Bioinformatics and Computational Microbiology
Ecology and Environmental/
Geomicrobiology
Evolution
Special instructions:
The Subjects Taken Page is optional only if you have attached a pdf of your transcript. Attaching your transcript is strongly preferred for the completion of your application. If no transcript has been attached, this page must be filled in to complete your application and you must follow up with an official transcript sent to the address indicated on the Overview/Help page. Please complete the subjects taken in the following order: Biology, Chemistry, Physics, Math, Engineering/Other Sciences.

MIT-Woods Hole Oceanographic Institution (WHOI), Joint Program in Oceanography/ Applied Ocean Science and Engineering

Room: 54-820
Phone: (617) 253-7544
e-mail: mit-whoi-www@mit.edu
http://mit.whoi.edu

Types of degrees offered:
Ph.D., Sc.D. (S.M. for US Navy applicants only)

Terms students can be admitted:
June, September

Application deadlines:
January 5

Tests required:
IELTS: Minimum score required: 7
TOEFL: Minimum score required: 100 (IBT)
TOEFL may be waived by department under certain circumstances. Make request in writing well in advance of application deadline.
Department code: 75
GRE: general test required of all applicants.
Department code: 0508

Areas of research offered:
Main areas of research:

Applied Ocean Science and Engineering
Biological Oceanography
Chemical Oceanography
Marine Geology and Geophysics
Physical Oceanography

Nuclear Science and Engineering, Course XXII

Room: 24-102
Phone: (617) 253-3814
e-mail: egan@mit.edu
http://web.mit.edu/nse/

Types of degrees offered:
S.M., Engineer's Degree, Ph.D., Sc.D.

Terms students can be admitted:
June, September

Application deadline:
December 15

Tests required:
IELTS: Minimum score required: 7
TOEFL: Minimum score required: 577
(233 for computer-based; 90 for internet-based)
TOEFL waiver accepted: No
Department code: 69
All international students must take either the TOEFL or the IELTS.
GRE: general test required
Department code: 1609

Areas of research offered:
Fission Reactor and Fuel Cycle Engineering
Fusion and Plasma Physics (theory/computation)
Fusion and Plasma Physics (experiment/engineering)
Materials (theory/computation and experiment)
Quantum Engineering
Accelerators, Detectors & Nuclear Security
Nuclear Technology Management and Policy

Special instructions:
All applicants are required to use the online application, at https://gradapply.mit.edu/whoi/apply/.
Transcripts should be scanned and uploaded to the online application. Applicants must complete the Record of Subjects Taken

Center for Ocean Engineering

For details, see Mechanical Engineering on page 11.

Operations Research (OR)

Room: E40-149
Phone: (617) 253-3601
Fax: (617) 258-9214
email: lrose@mit.edu
http://web.mit.edu/orc/www/

Types of degrees offered:
S.M., Ph.D.

Term students can be admitted:
September

Application deadline:
December 15

Tests required:
All international students applying to the Operations Research Center are required to take either the TOEFL or IELTS. IELTS: Minimum score required: 7
TOEFL: Minimum score required: 100 (IBT)
TOEFL Waiver: Yes (only for applicants with 4+ years in a US English speaking university)
GRE: general test required
Department code: 1302

Special instructions:
1) All applicants must use the OR specific online application which is found on the MIT Graduate Admissions website. The Application will be activated in mid September. Paper applications will not be considered.
2) Applicants should not send published papers and/or other supplemental materials with their application.
3) CVs or resumes can be uploaded to the application (hard copies will not be accepted).
4) Applicants are required to complete the Record of Courses Taken. Please complete the section for courses most relevant to the OR program.

Academic Records (Transcripts):
Official transcripts should be scanned and uploaded as PDF attachments to the online application. Admitted applicants will be required to provide an official sealed transcript from each college attended.
Physics, Course VIII

Room: 4-315  
Phone: (617) 253-4851  
Fax: (617) 258-8319  
email: physics-grad@mit.edu  
http://web.mit.edu/physics/graduate  
applicants

Types of degrees offered:  
S.M., Ph.D.

Terms students can be admitted:  
February, September

Application deadlines:  
November 1 (for February admission)  
December 15 (for September admission)

Tests required:  
An English language exam (IELTS, TOEFL, TOEFL iBT, or the C2 Cambridge English Proficiency exam) is required of all applicants who are citizens of a country in which English is not the primary language.  
IELTS: Minimum score required: 7  
TOEFL: Minimum score required: 600 (250 for computer-based; 100 for internet-based)  
IELTS or TOEFL may be waived by department.  
GRE: general and subject test required  
Department code: 0808

Special instructions:  
All applicants are required to use the online application, which can be found on the MIT Graduate Admissions Website. Official transcripts should be scanned and uploaded to your online application. You must provide one copy of the official academic transcript from each college you have attended. All additional supporting documents should also be sent electronically. Applicants are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please list physics, mathematics, and other science courses only; group courses by subject area, and complete each column. Applicants are required to list courses taken at MIT.

Areas of research offered:  
Experimental  
Astrophysics, Space and Planetary Physics  
Atomic and Optical Physics  
Biophysics, Medical Physics  
Condensed Matter Physics  
High Energy and Nuclear Physics  
Quantum Information Science  
Plasma Physics, Nuclear Fusion Research, Relativistic Beam Physics  

Theoretical  
Astrophysics, Space and Planetary Physics  
Atomic and Optical Physics  
Biophysics  
Condensed Matter Physics  
High Energy and Nuclear Physics  
Quantum Information Science  
Plasma Physics, Nuclear Fusion Research, Plasma Astrophysics

Political Science, Course XVII

Room: E35-467  
Phone: (617) 253-8336  
Fax: (617) 258-6164  
email: twrog@mit.edu  
http://web.mit.edu/polisci/graduate/admissions

Term students can be admitted:  
September

Types of degrees offered:  
S.M., Ph.D.

Application deadline:  
December 15

Tests required:  
TOEFL: Minimum score required: 600 (PBT)  
100 (iBT) Department code: 92

Degrees from US or English-speaking universities are not accepted in lieu of TOEFL or IELTS. In limited cases the department will consider a waiver. Applicants must request the waiver form from the department.  
IELTS: Minimum score required: 7  
GRE: general test required

Special instructions:  
Applicants to the Department of Political Science must apply online for either the S.M. Program or the Ph.D. Program. In addition to the Statement of Objectives, applicants must submit a resume and a separate writing sample of 5–15 pages. Writing samples and resumes should be uploaded as PDF attachments to the online application. Please refer to the department website for further instructions.

Academic Records (Transcripts):  
Official transcripts should be scanned and uploaded as PDF attachments to the online application. Accepted applicants will be required to provide an official sealed transcript from each college attended.

Areas of research offered:  
American Politics  
Comparative Politics  
International Relations  
Models and Methods  
Political Economy  
Security Studies

Program in Polymers and Soft Matter (PPSM)

Room: 76-253  
Phone: (617) 253-0949  
Fax: (617) 452-3293  
email: ppasm-www@mit.edu

http://polymerscience.mit.edu

Types of degrees offered:  
Ph.D., Sc.D.

Terms students can be admitted:  
September

Application deadlines:  
December 15

Tests required:  
TOEFL: Minimum score required: 600 (PBT)  
100 (iBT) Department code: 92

Degrees from US or English-speaking universities are not accepted in lieu of TOEFL or IELTS. In limited cases the department will consider a waiver. Applicants must request the waiver form from the department.  
IELTS: Minimum score required: 7  
GRE: general test required

Special instructions:  
Applications to the Program in Polymers and Soft Matter should be made in conjunction with an application to a departmental program in the School of Science or School of Engineering at MIT (the “Home” department). Applications should specify the departmental program of the application and “PPSM” or “Program in Polymers and Soft Matter” as the interdisciplinary program of study. Original applications should be filed according to the normal procedures for the relevant departmental program, and a copy of the application should be sent to PPSM Admissions, Room 76-253. Only one application fee is required. Admission to the departmental program is a prerequisite for further consideration by PPSM; once the candidate has been accepted to a department, his or her application will be forwarded by that department to the PPSM office for consideration.

Applicants are required to complete the Record of Courses Taken in Preparation for Graduate Study form. Please complete the section for courses most relevant to this graduate program and the additional courses section. Group courses by subject area, and complete each column.

Return applications to:  
Department of choice (see Special Instructions).

Areas of research offered:  
Biodegradable Polymers  
Biopolymers and Biomaterials  
Colloids and Surfactants  
Functional Polymers  
High Performance Polymers  
Liquid Crystalline Polymers Polyelectrolytes  
Polymer Chemistry  
Polymer Mechanics  
Polymer Modeling  
Polymer Physics  
Polymer Processing  
Polymer Rheology  
Polymer Statistical Mechanics
Structure/Property Relationships
Supramolecular Assembly

Science Writing, Course XXI-W
Room: 14N-338
Phone: (617) 253-6668
Fax: (617) 253-6910
email: scwrit-www@mit.edu
scwrit.mit.edu

Type of degree offered: S.M.
Term students can be admitted: September
Application deadline: January 15

Tests required:
IELTS: Minimum score required: 7.5
or
TOEFL: Minimum score required: 600
GRE or GMAT: general test required.

Minimum score required: No
GRE Institute code: 3514
GRE Department code: 4313
GMAT code: X5XQ5-17

Special instructions:
Applicants to the SCM Program will find complete information about applying on the web at http://scm.mit.edu. Applicants must apply online.

System Design and Management Program (SDM)
Room: E40-315
Phone: (617) 425-2432
Fax: (617) 253-1462
email: sdm@mit.edu
http://sdm.mit.edu

Term students can be admitted: September
Application deadlines: January 8, February 26, April 22

Tests required:
IELTS: Minimum score required: 7.5
GRE or GMAT: general test required.

GRE Minimum score required:
Verbal: 550 (450 non-native speakers),
Quantitative: 700, Analytical Writing: 4.5; GMAT: 600
Department code: 4599

Sloan School of Management, Course XV
Please see the Sloan School of Management website at http://mitsloan.mit.edu/academic for information on the following programs:

Executive M.B.A.
Leaders for Global Operations (LGO)
Master of Business Administration, M.B.A.
Master of Finance, M.Fin.
Master of Science in Management Studies, M.S.
Sloan Fellows
System Design and Management (SDM)

Supply Chain Management (SCM)
Applicants to the SCM Program will find complete information about applying on the web at: http://scm.mit.edu
Room: E40-359
Phone: (617) 324-6564
email: scm@mit.edu

Types of degrees offered:
Master of Engineering in Logistics (SCM)

Term students can be admitted: September
Application deadlines:
Round 1 – November 15
Round 2 – February 1
Round 3 – April 1

Tests required:
IELTS: Minimum score required: 7
TOEFL: 100 (iBT)
GRE or GMAT: general test required.

Minimum score required: No
GRE Institute code: 3514
GRE Department code: 4313
GMAT code: X5XQ5-17

Special instructions:
Applicants to the SCM Program will find complete information about applying on the web at http://scm.mit.edu. Applicants must apply online.

Technology and Policy Program (TPP)
For program details, see Institute for Data, Systems, and Society, page 9.

Urban Studies and Planning, Course XI
Room: 7-346
Phone: (617) 253-9403

email: dusapply@mit.edu
http://dus.mit.edu

Types of degrees offered:
M.C.P., S.M., Ph.D.

Term students can be admitted: September
Application deadline: January 3

Tests required:
IELTS: Minimum score required: 7
TOEFL: Minimum score required: 100 for internet-based; 600 for paper-based
TOEFL waiver accepted: No

GRE: general test required
Department code: 97
Ph.D. minimum score required: 308 (V&Q) combined; 5.0 analytical writing

Special instructions:
Admitted students must mail official transcripts to the department at:
MIT Department of Urban Studies & Planning DUSP Admissions
77 Massachusetts Avenue, Room 7-346
Cambridge, MA 02139-4307

Special instructions for the S.M. degree:
Under special circumstances, admission may be granted to candidates seeking a one-year Master of Science (S.M.) degree. The S.M. is intended for professionals with at least seven years of distinguished practice in city planning or related field.

The Department requires a letter from a DUSP faculty member indicating their willingness to advise their thesis. (This may be one of the three letters of recommendation required as part of the application.)

Special instructions for PhD applicants: All applicants should indicate their first choice program group in the application. In the event your research spans two program groups, and you would like your application to be considered by both groups, you should indicate your first and second choice groups at the top of your Statement of Purpose and then discuss the cross-cutting nature of your research and studies in your essay.

Program groups offered:
City Design and Development Environmental Policy Program
Housing, Community and Economic Development
International Development Group
Transportation*

Although we do not have a separate Program Group focusing on issues of transportation, many DUSP students choose this as an area of focus. Applicants with particular interest in
transportation should indicate this on their application, but should also specify a Program Group (for example, “HCED/transportation”).

Urban Information Systems*

Only Ph.D applicants may designate Urban Information Systems (UIS) as the primary group. MCP applicants with a particular interest in computing and technology should select Urban Information Systems as the secondary program group (for example, “CDD/UIS”).
The Campus

Research Facilities

The Institute’s research facilities are generally available to all MIT students, regardless of specific degree program, who have legitimate academic needs to use them. Among these facilities are:

- Bates Linear Accelerator
- Biotechnology Process Engineering Center
- Francis Bitter National Magnet Laboratory
- Cell Culture Center
- Center for Advanced Engineering Study
- Center for Advanced Nuclear Energy Systems
- Center for Advanced Visual Studies
- Center for Biological and Computational Learning
- Center for Cancer Research
- Center for Computational Research in Economics and Management Science
- Center for Construction Research and Education
- Center for Global Change Science
- Center for Health Effects of Fossil Fuels Utilization
- Center for Information Systems Research
- Center for International Studies
- Center for Materials Research in Archaeology and Ethnology
- Center for Materials Science and Engineering
- Center for Real Estate
- Center for Technology, Policy and Industrial Development
- Center for Transportation and Logistics
- Clinical Research Center
- Computer Science and Artificial Intelligence Laboratory
- Energy Laboratory
- George Russell Harrison Spectroscopy Laboratory
- Harvard-MIT Center for Biomedical Engineering
- Innovation Center
- International Food and Nutrition Program
- Joint Center for Urban Studies of MIT and Harvard University
- Kavli Center for Space Research
- Laboratory of Architecture and Planning
- Laboratory for Electromagnetic and Electronic Systems
- Laboratory for Information and Decision Systems
- Laboratory for Manufacturing and Productivity
- Laboratory for Nuclear Science
- Lincoln Laboratory (research and development in advanced electronics)
- McGovern Institute for Brain Research
- Materials Processing Center
- Media Laboratory
- Microsystems Technology Labs
- Mining and Mineral Resources Research Institute
- Nuclear Reactor Laboratory
- Picower Institute for Learning and Memory
- Plasma Science and Fusion Center
- Research Laboratory of Electronics
- Sea Grant College Program
- Stroboscopic Light and Pulsed Sonar Laboratory
- Technology Adaptation Program
- George R. Wallace, Jr. Astrophysical Observatory
- George R. Wallace, Jr. Geophysical Observatory

Housing Services

Graduate students at MIT are entering a tight housing market whether they are looking for accommodations on campus or in the surrounding Boston/Cambridge area. Many new students, both single and married, must find apartments off campus, often in suburbs up to ten miles away, where there is greater variety and availability than in the neighborhoods near MIT. The Housing Office at MIT helps students with the housing search and keeps an up-to-date list of available units. In addition, MIT gives preference to new students when assigning on-campus housing. Most new single students requesting on-campus housing can be accommodated; family housing, however, is severely limited. Detailed housing information and application forms are available online through the Housing Office website at http://housing.mit.edu/.

On-campus housing for single students

Single students may apply for housing in five on-campus facilities with a total capacity of about 2,000 - less than half the number of single graduate students. Ashdown House, a graduate dormitory housing men and women, consists primarily of one- and two-person rooms, typically arranged as suites for four or five students. The single rooms are not available to entering students. Tang Hall is a tower apartment building that accommodates 404 first-year graduate men and women, with apartments containing individual bedrooms for two, three, or four students. One hundred ninety graduate students live in Edgerton House, which has efficiency units through four-bedroom apartments and duplexes; one-third of the spaces in this building are reserved for new students. 224 Albany Street (also known as the Warehouse and NW30) houses 85 new men and women in efficiency apartments for 9 months of the year (September to May); there are a few spaces available in the summer through a lottery. Sidney-Pacific houses 700 men and women in efficiency, 2-bedroom and quad occupancy 2-bedroom apartments. 40% of the spaces in this facility are reserved for new students. Rooms in Ashdown House, Tang Hall, 224 Albany Street and Sidney-Pacific are furnished; the apartments in Edgerton are unfurnished except for refrigerators and electric ranges. Rooms modified for handicapped students are available in all these buildings. Complete information is available online at http://housing.mit.edu/.

Health and Counseling Services

The MIT Student Health Program consists of on-campus medical services, covered by a mandatory student health fee which is included in the tuition, and of hospital and accident insurance, for which all students are enrolled unless they demonstrate that they have equivalent coverage through another insurance program. Additional coverage is available for spouses and dependents.

Prior to matriculation, all new students must complete a Medical Report with required immunizations and tests.

MIT offers many sources of academic and personal counseling, including departmental
faculty advisors, deans, international student advisors, religious counselors, the Career Planning and Placement Office, and the Medical Department.

**Student Activities**

Graduate students at MIT find a community with wide extracurricular interests and many opportunities to enjoy them. More than 100 student-directed activities are supported by excellent facilities and a capable staff to help students acquire new skills and participate actively in campus life. MIT offers a rich program of lectures, music, drama, athletics, and clubs, augmented by the abundant cultural activities found throughout Boston and Cambridge.

MIT’s intramural and club athletic programs are open to graduate students, who enjoy sports including badminton, basketball, bowling, cricket, cross-country, cycling, touch football, golf, hockey, ice skating, judo, karate, rifle, rugby, sailing, rowing, softball, squash, swimming, tennis, table-tennis, track, volleyball, water polo, weight lifting, white-water canoeing, and wrestling. All of the many art, drama, music, and religious activities welcome graduate students as active participants.

The Graduate Student Council (GSC) is an elected body whose membership includes graduate student representatives of all departments, graduate living groups, and international students. The GSC is concerned primarily with promoting the general welfare of graduate students and providing a forum for their ideas and suggestions. It encourages social, athletic, cultural, and other extracurricular activities, fostering closer relations between graduate students and faculty both inside and beyond formal academic contexts. The Council has two student representatives on the Committee on Graduate Programs, the faculty body responsible to the administration of the Graduate School, and it also selects graduate student representatives for many other MIT committees.

**Security and Safety**

For information on security and safety on MIT’s campus, please visit the link below. Hard copies of this report are available upon request.


**For International Students**

**English Language Proficiency**

English is the language of instruction in all subjects within the Institute, and all papers and theses must be written in English. All applicants whose first language is not English, including those currently enrolled in US institutions, must present evidence of their ability to carry on their studies in English. Qualifying applicants must take either the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS).

*The IELTS exam is preferred at MIT.* A minimum TOEFL score of 577 (233 computer-based; 90-91 internet-based) is required by the Institute; however, some departments require higher scores. The minimum IELTS score required is determined by the department. Refer to department information for testing requirements. Scores below minimum may result in the withholding of the visa documentation for a candidate otherwise considered admissible.

Students who have received instruction in English in their primary and secondary schools and students who have been in the US for four years or longer and have received a degree from an American institution may be eligible for a waiver of the English proficiency exam requirement by sending a written request to the department or program to which they are applying. (The departments of Aeronautics and Astronautics, Architecture, Chemical Engineering, Economics, Mechanical Engineering, Nuclear Science and Engineering, Urban Studies and Planning, and Media Arts and Sciences do not grant waivers.)

In addition to the TOEFL/IELTS, all students whose first language is not English are required to take the English Evaluation Test (E.E.T.) at MIT during the week prior to Registration Day. This examination is a diagnostic test whose purpose is to help students identify their strengths and weaknesses in written and oral English. English classes may be recommended as a result of the E.E.T.

**Passport and Visas**

To enter the US, each international student admitted to the Institute needs a passport issued by his or her government. Students must also visit US embassies or consulates in their home countries to be issued student visas which will enable them to enter the US. Students must present a certificate of eligibility (Form I-20 or Form DS 2019) with the supporting financial documentation when they apply for the visa. The International Students Office at MIT will send the required document to all admitted students who provide evidence of sufficient funds to meet the estimated costs and of adequate English language proficiency. It is important to note that the validity of the visa does not indicate how long a student may remain in the US; this determination will be made by the Immigration Service at the port of entry. Canadians do not need student visas; instead, they may obtain the appropriate immigration status at the port of entry to the US by showing proof of citizenship and the Certificate of Eligibility.

**Visa Options**

Students admitted to MIT can choose between two visas: the F-1 (student visa) and J-1 (exchange visitor visa). Individuals on any other non-immigrant visa will be unable to register in a program of studies at MIT.

The **F-1 visa**

This option is normally used by those who enroll as full-time students at an approved educational institution. It is obtained by presenting the Form I-20 to a US consulate or embassy and submitting an application for an F-1 visa. F-1 students are expected to attend the school that issued the Form I-20 and maintain a full course of study while in the US. Students whose studies are funded by their families or other private sponsors are normally issued the Form I-20. Upon arrival in the US, students will be granted permission to remain in this country for the period of time required to complete their programs of study.

Some students hold fellowships or assistantships. Students with full assistantships, however, are not allowed to hold any additional employment on or off campus. Spouses and children of F-1 students may hold the F-2 visa. The F-1 student may apply (continued)
for Form I-20 for each of their dependents who wish to join them in the US in F-2 status. Those dependents will then need to apply for F-2 visas at the US embassy or consulate.

Health and hospitalization insurance is a requirement for all F-1 students and their dependents.

The J-1 Exchange Visitor Visa
This visa may be used by those who come to study or conduct research as participants in an Exchange Visitor program. Students must be substantially (more than 51%) funded by their home government, educational institutions, international or national organizations, private companies, etc. in order to be eligible for a J-1 visa. Students on personal/family funds are not eligible for J-1 status; they must apply for F-1 status. The J-1 visa is obtained by presenting to the American Consul form DS 2019 (Certificate of Eligibility). When students accept funding from the Fulbright or any other agency of the US government or their own governments (even though it may be only a travel grant), this status carries with it a “two-year home country residency requirement,” which obliges students to return to their home countries for two years before they can apply for permanent residency or change to an H or L visa. In addition, this restriction applies to students from certain countries which have registered a list of needed skills with the American government. Students intending to use the J-1 visa to enter the US should ask the US Consul in their home country whether or not they will be subject to the two-year home residency requirement.

J-1 students will be allowed to remain in this country for the period of time indicated on their DS 2019. This time can be extended, as long as they are pursuing a full course of study or on authorized academic training.

Health and hospitalization insurance is a requirement for all J-1 students and their dependents.

Financial Aid
Financial aid for international students is extremely limited. Applicants are urged to make every effort to secure funds from sources other than MIT.

Many countries place limitations on the purchase of US dollars. Prospective students should consult the proper authorities in their countries about foreign exchange regulations to make certain that the academic levels and fields of study to be pursued permit the exchange of the local currency for dollars. Students should also be familiar with the procedures established for sending money to the US.

The dollar awards accompanying research and teaching assistantships at MIT often do not meet total student expenses. Additional funds must therefore be assured to meet the minimum budget projected by MIT for a new graduate student before a certificate of eligibility for an F-1 or J-1 visa will be issued.

Expenses
MIT is aware of the substantial expenses that graduate education at MIT represents, and we want to give international applicants a realistic assessment of the costs involved. Living costs in the Cambridge/Boston area are among the highest in the US. Since the Institute cannot assume financial responsibility for its students, we must be satisfied that entering students will have sufficient funds to meet all expenses while at MIT.

Because the first few months in the US usually demand more financial outlay than any other period, students should plan to arrive with enough money to meet substantial initial expenses, such as travel to Cambridge from the port of arrival, insurance; temporary accommodation in hotels, if necessary; meals in restaurants; advance payment of rent; purchase of furnishings; and deposits for electricity and telephone service.

Questions
If you have additional questions, please contact:

MIT International Students Office
77 Massachusetts Avenue, Building E39-278
Cambridge, MA 02139-4307, USA

Phone: 617-253-3795