

MIT Operations Research Center's Simultaneous Master's Degree in Operations Research

NOTE TO APPLICANT

Thank you for your inquiry about pursuing a dual SM degree in operations research. All necessary application forms are included in this packet. Please read and follow the instructions below carefully.

Requirements

Students must be currently enrolled in a master's degree program elsewhere at MIT in order to pursue a dual SM in OR. In the event that the student decides not to pursue a graduate degree from his/her home department, he/she would be required to submit a formal application for admission into the OR SM program. **NOTE:** The OR Center does not consider the EECS MEng program a graduate degree program. Students in the MEng program will need to submit a formal application.

Deadlines

All application materials must be submitted and approved at least *two academic semesters* prior to your anticipated graduation date from MIT. Applications to the dual SM program in OR will be reviewed by members of the ORC Admissions Committee.

September entry: Application deadline is April 15th. Decisions will be made by the end of May.

February entry: Application deadline is October 30th. Decisions will be made by the end of January.

Application Materials

In order to have your application considered for pursuing a dual SM degree in OR, you must submit a completed "mini" application package to the Operations Research Center's Admissions Coordinator by the application deadline.

A completed "mini" application package should include the following:

- Application Form – one page form enclosed.
- Statement of Objectives – one-page description of your reasons for wishing to pursue a dual SM in OR.
- Evaluations – Two evaluations from professors who know you well (forms contained in this package). Each evaluation should be sealed in its own envelope and submitted with your completed application.
IMPORTANT NOTE: One of your evaluations must be written by your current research and/or thesis advisor.
- MIT transcript – Obtain a copy of your most recent MIT transcript from your home department. (Submit it in a sealed envelope with your application).
- Score Reports (General GRE) – a copy of score report will be acceptable.
- "Course Requirements" Form – List the courses you intend to take to satisfy the OR degree requirements and the courses you intend to take to satisfy your home department requirements. List complete subject information – course number, title and units.
- Written documentation from your home department verifying that you have fulfilled the Writing Exam/English Evaluation Test requirement. (Submit in a sealed envelope with your application).

Contact Information

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OR Center URL: <http://web.mit.edu/orc/www>

Operations Research Center's Master's Degree Program in Operations Research

Students pursuing a Master's degree in operations research must complete the three basic subjects listed below, their equivalents, or more advanced courses (at MIT or elsewhere).

6.251J/15.081J Introduction to Math Programming **OR** 15.093 (Optimization Methods)

6.431 Applied Probability **OR** 6.975 Fundamentals of Applied Probability

15.077J Statistical Learning and Data Mining or by taking another advanced statistics subject such as 1.202, 6.867, 9.520, 14.382

plus four additional graduate level subjects approved by the SM advisor.

Students may substitute approved graduate level courses for the three basic courses, but must take **at least** seven MIT graduate courses in all cases (in addition to satisfying the computer literacy requirement). One out of the seven required SM courses may be an MBA-level course in a functional area of management (finance, operations management, or marketing). Students must maintain a GPA of 4.5 or better. In addition, OR students must satisfy a Writing Exam/English Evaluation Test requirement.

Master's degree candidates in Operations Research are required to write a thesis based on independent, usually applied, research.

Master's degree candidates are encouraged to take additional OR-related subjects focusing on an application area. Application areas that have been of interest to OR students in the past include transportation, logistics, finance, manufacturing, public systems, and operations management, among many others.

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STATEMENT OF OBJECTIVES

Please give your reasons for wishing to do graduate work in the field of operations research. Please indicate your particular research interests within the area of OR.

Student's Signature

Date