

PH.D. PROGRAM

Students that graduates with a doctorate in philosophy (Ph.D.), from the ISE Department are subject to the following requirements:

- Complete a set of core courses
- Declare a primary & secondary field of study within ISE and complete an associated core of requirements
- Declare a minor field of study and complete at least two 400-level courses outside the ISE department.
- Complete a formal end-of-the-year review for first year students, which includes a qualifier exam.
- Satisfy the Ph.D. degree requirements of the P.C.. Rossin College of Engineering & Applied Science (refer to the Lehigh University Catalog), which includes a formal proposal, general exam and dissertation defense.

Students must declare a primary and a secondary field of study in the following areas:

- Financial Engineering
- Information Systems
- Manufacturing, Production & Logistics
- Optimization
- Stochastic Processes & Applied Statistics

www.lehigh.edu/ise/phdprogram.html

ISE MISSION STATEMENT

To pursue excellence and national prominence in the areas of operations research, information technology, manufacturing, and related fields of Industrial Engineering through innovative teaching, distinguished research and scholarship, and active professional leadership. Building on its unique strength and international reputation in undergraduate education and industrial research, the department strives for leadership in educational innovation, multidisciplinary research, and industrial partnership. Our ultimate mission is to produce leaders who have learned to think critically and analytically, have the skills and techniques to comprehend and create new knowledge, and are willing to serve and inspire others.



GRADUATE STUDIES IN ISE HOW TO APPLY

If you are interested in applying to any of these programs, please check out our website at:

www.lehigh.edu/ise/gradappFAQ.html



GRADUATE PROGRAMS INFORMATION

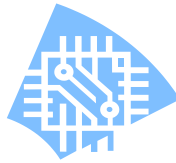


www.lehigh.edu/ise

M.S. IN MANAGEMENT SCIENCE

Our Masters in Management Science focuses on quantitative decision-making for a variety of business applications. This program provides the students with a broader perspective toward managerial decision-making in both private enterprise and public administration. Upon entering the program, student must declare an area of concentration listed as follows:

- Operation Research
- Decision & Risk Analysis
- Economics & Cost Analysis
- Production & Operations Management
- Logistics & Supply Chain Management



Each student is required to complete 15 credit hours of core courses, 12 credit hours of courses in the declared area of concentration and approved free elective or complete a management science project for the remaining 3 credits.

www.lehigh.edu/ise/mastersms.html

M.S. & M.ENG. IN INFORMATION & SYSTEMS ENGINEERING

The Masters in Information & Systems Engineering (I&SE), integrates the understanding of problems with their solution and implementation using the latest computing and communication technology. This program provides advanced educational and research opportunities related to operations research, quantitative and computational analysis, large scale optimization, system simulation, information-centric systems and the integration of information systems in industrial, service and



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The program is compromised of three core areas:

- Information Economics
- Quantitative Systems Analysis
- Information Technology and Applications

Master of Science Program in I&SE requires a minimum of 24 credit hours of approved coursework and completion of satisfactory thesis or 27 credit hours of approved coursework and completion of a 3 credit hour project.

The Masters of Engineering program in I&SE requires a minimum of 30 credit hours approved coursework. No thesis or project is required.

www.lehigh.edu/ise/mastersise.html

M.S. & M.ENG. IN INDUSTRIAL ENGINEERING

The core of the Masters in Industrial Engineering, (IE) program allows for studies in operations research, manufacturing systems, manufacturing processes or production management.

The Masters of Science in IE consists of 24 credit hours of approved coursework and completion of a satisfactory thesis. The Masters in Engineering degree in IE consists of 27 credit hours of approved coursework and completion of satisfactory project. This program is for students whose interest are more oriented toward engineering design rather than research.

www.lehigh.edu/ise/mastersie.html



M.S. IN QUALITY ENGINEERING

Our Masters in Quality Engineering degree focuses on statistical methods to control various systems. This program is designed to accommodate students who are employed full-time.

Courses are also transmitted via satellite for students across the country or internationally. Courses focus on applied statistics, quality control, and design of experiments. All candidates must complete 30 hours of coursework—15 hours of core courses and 15 hours of electives. www.lehigh.edu/ise/mastersqe.html

M.S. IN ANALYTICAL FINANCE

The Masters in Analytical Finance are for students who are interested in a career in financial services. This program provides tools for creating innovative solutions for financial problems using state-of-the-art analytical techniques and computing technologies. The Analytical Finance program is offered jointly with the Math and Finance departments.

Students must successfully complete at least 30 graduate credit hours in a common set of analytical, financial, and computational courses. www3.lehigh.edu/business/academics/msanafin.asp



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