



UCF

College of Engineering and Computer Science

MS Programs - Industrial Engineering and Management Systems

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CECS Virtual Grad Day
Your **ONE-STOP SHOP**
for graduate programs



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Why Study IE at UCF

- IEMS is the top ranked program at CECS, and one of only two ranked IE Programs in Florida (after University of Florida)
- Best Online Master's Programs in Engineering Management for 2022 by [OnlineMastersDegrees.org](https://www.onlinemastersdegrees.org)
- IE graduate programs ranked 40th in the world by U.S. News & World Report Best Graduate Schools 2021 guide
- Top 10 BSIE majors producers in the nation
- Large graduate program (105 PhD and 345 MS students)
- Faculty are excellent teachers and researchers, student-oriented, professionally active
- Graduate research opportunities
- Team projects - IE students get valuable practical experience through team projects



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Diverse Faculty Research Interests

- Modeling, Simulation, and Training Systems
- Operations Research and Optimization
- Manufacturing, Quality, and Production Systems
- Human Factors and Ergonomics
- Management Systems Engineering
- Innovation and Technology Entrepreneurship



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Several MS Options

- Master of Science in Industrial Engineering (MSIE)
- Master of Science (MS)
- Master of Science in Engineering Management (MSEM)
- Master of Science in Systems Engineering (MSSE)



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Admission Requirements

- Bachelor's Degree in Industrial Engineering or a closely related field with GPA of 3.0 or greater
 - Mathematics through Calculus II (MAC 2312 or equivalent)
 - An undergraduate course in engineering probability and statistics
 - Familiarity with at least one programming language (such as Python, C, C++, Visual BASIC, Java, etc.)
- Official transcripts
- Two letters of recommendations
- Resume
- Goal Statement



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Program Requirements

- MSIE, MSEM, MSSE, or MS
 - Non-thesis option: 30 credit hours
 - Thesis option: 24 credit hours plus 6 thesis hours
- At least 15 hours of 6000-level courses
- Transfer credit: B- or above, 6 hours maximum



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Where Do Our Graduates Go

- Graduate School – Ph.D. Program
- Aerospace and Defense (e.g., Lockheed Martin, Northrop Grumman, Harris Corp., Boeing)
- Energy (e.g., Siemens, Mitsubishi Power Systems)
- Entertainment (e.g., Disney, Universal, SeaWorld)
- Consulting (e.g., Accenture, Deloitte, McKinsey, IBM)
- Healthcare (e.g., Advent Health, Nemours, Orlando health)
- Build Their Own Business