



UCF

College of Engineering and Computer Science

Ph.D. Program 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 (96 PhD and 419 MS students)
- Faculty - excellent teachers and researchers, student-oriented, research and professionally active
- Graduate research opportunities



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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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Admission Requirements

- Bachelor's and Master's Degree in Industrial Engineering or a closely related field with GPA of 3.0 or greater
- Official transcript
- An official, competitive GRE score taken within the last 5 years
- Three letters of recommendations
- Resume
- Goal Statement



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Program Requirements

- Minimum of 72 semester hours beyond the bachelor's degree
 - 15 hours of dissertation
 - 57 hours of coursework
 - Up to 30 hours can be transferred from one MS degree
- At least 27 hours of formal course work beyond the master's degree chosen from any of the following group of courses:
 - Human Systems Engineering/ Ergonomics
 - Quality and Production Systems
 - Management Systems
 - Simulation, Optimization and Modeling
 - Systems Engineering



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From Pre-Doctoral to PhD

- Admitted to program
 - Pre-Doctoral Student
- Find a topic
- Find an advisor and form a dissertation committee
- Pass Qualifying Exam
 - Doctoral Student
- Pass Candidacy Exam
 - Doctoral Candidate
- Drafts and revisions - involvement of committee
- Dissertation defense
 - Doctor of Philosophy (PhD)



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Keys to Success

- Good foundation
- Intense desire to discover new things
- Ability to work independently and in unstructured settings
- Good oral and written communication skills
- Collaboration with researchers from other disciplines



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Where Do Our Graduates Go

- Academia
- National Research Centers
- Large Enterprises
- Small High-Tech Companies
- Consulting
- Build Their Own Business