UCF Online

ONLINE MASTER OF SCIENCE SYSTEMS ENGINEERING (MSSE)

APPLICATION DEADLINES

FALL PRIORITY

JANUARY 15

FALL

JULY 1

SPRING

DECEMBER 1

PROGRAM AT A GLANCE

- Offered 100% online to offer flexibility and convenience to working professionals
- Complete your degree in as little as 2 years, full time
- No GRE required
- Supported throughout UCF Online academic career by a Success Coach, from admission through graduation

WELCOME

It is my honor and pleasure to introduce you to the University of Central Florida (UCF). At UCF, we are energetic. We are bold. We are big. Our size allows us to lead innovating change, and transform more lives. Our unique educational model that integrates strong academics with authentic learning opportunities is well suited to meet the evolving needs of today's graduate student and the world in which we live.

Students are supported throughout their UCF Online academic careers by a Success Coach, from admission through graduation. UCF Online programs are designed and taught by the same faculty who teach classes on our campuses. UCF is committed to this model, and our students benefit from it.

UCF's Master of Science in Systems Engineering program is a fully online program that focuses on applications of systems engineering to designing, developing, integrating, and evaluating complex systems through their life cycle. This unique program is offered in response to the growing needs of the industry where systems thinking, complexity, globalization, quality, and productivity are the key business drivers.

Within the University of Central Florida Department of Industrial Engineering and Management Systems our faculty and staff create an unparalleled engineering curriculum and learning environment. Our graduate students transition seamlessly from their classes to applied work environments from experiences gained at UCF, and begin making big impacts. College of Engineering and Computer Science faculty, staff, students, alumni, and partners are committed to transforming graduate education to take full advantage of meaningful learning opportunities gained from a UCF Master of Science in Systems Engineering degree. We welcome you to join us as we unleash the potential of our students, our communities, and the world.

Best regards,
Mansooreh Mollaghasemi, Ph.D.
Associate Professor

ONLINE MASTER OF SCIENCE
SYSTEMS ENGINEERING (MSSE)

PROGRAM TUITION

In-State
$327.32 per credit hour

Out-of-State
$1,151.72 per credit hour

PROGRAM CONTACT

Mansooreh Mollaghasemi, PhD
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Engineering 2, Room 312

CURRICULUM

Required Courses (30 Credit Hours) - The following courses are required for the completion of the MSSE program.

Master's Core Courses—12 Credit Hours
• ESI 6551 - Systems Engineering 3 Credit Hours
• ESI 6552 - Systems Architecture 3 Credit Hours
• EIN 5140 - Project Engineering 3 Credit Hours
• ESI 6511 - Systems Integration and Testing 3 Credit Hours

Concentration Courses—9 Credit Hours
• ESI 6224 - Quality Management 3 Credit Hours
• EIN 6357 - Advanced Engineering Economic Analysis 3 Credit Hours
• ESI 6550 - Systems Thinking in Engineering 3 Credit Hours

Elective Courses—9 Credit Hours
• EIN 5255C - Interactive Simulation 3 Credit Hours
• EIN 6528 - Simulation Based Life Cycle Engineering 3 Credit Hours
• EIN 6936 - Seminar in Advanced Industrial Engineering 3 Credit Hours
• ESI 5531 - Discrete Systems Simulation 3 Credit Hours
• ESI 6217 - Statistical Aspects of Digital Simulation 3 Credit Hours
• ESI 6336 - Queueing Systems 3 Credit Hours
• ESI 6532 - Object-Oriented Simulation 3 Credit Hours Management Systems
• EIN 5108 - The Environment of Technical Organizations 3 Credit Hours
• EIN 5117 - Management Information Systems 3 Credit Hours

• EIN 6182 - Engineering Management 3 Credit Hours
• EIN 5356 - Cost Engineering 3 Credit Hours
• ESI 5227 - Total Quality Improvement 3 Credit Hours
• EIN 5248 - Ergonomics 3 Credit Hours
• EIN 5251 - Usability Engineering 3 Credit Hours
• EIN 6258 - Human Computer Interaction 3 Credit Hours
• EIN 6271 - Human Reliability 3 Credit Hours

ADMISSIONS REQUIREMENTS

It is not likely that prospective applicants who hold a non-stem degree or fall under the minimum GPA requirement, will be admitted into the program. The program is selective of quality students with a competitive GPA and no provisional status is offered.

• One official transcript (in a sealed envelope) from each college/university attended.

• Undergraduate degrees in industrial or systems engineering or other engineering degrees are encouraged to apply for admission.

• Résumé or Curriculum Vita highlighting chosen career path.

• Two letters of recommendation.

• The goal statement should discuss all relevant professional background and should explain the motivation behind the pursuit of a Master's degree in Systems Engineering. Future educational and career goals after the completion of the applicant's master study should be discussed.

• Applicants applying to this program who have attended a college/university outside the United States must provide a course-by-course credential evaluation with GPA calculation. Credential evaluations are accepted from World Education Services (WES) or Josef Silny and Associates, Inc. only. Faculty members may choose to conduct face-to-face or telephone interviews before accepting an applicant into their research program.

Additional courses may be required to correct deficiencies. Students should contact the IEMS graduate program director for more information.