Engineering and Computer Science Majors
Industrial Engineering

About
Industrial engineers bridge the gap between design engineering and business by combining technical, business and communication skills to design and improve products and processes. IEs develop mathematical models, identify and analyze data using statistical methods, and develop and evaluate alternate strategies for determining the most productive ways to utilize people, materials, machines, money, space and energy.

UCF's program provides job preparation through hands-on experiences with industry clients. Internships and jobs are plentiful with UCF's proximity to Central Florida Research Park and Florida's high-tech corridor. UCF also offers a Lean Six Sigma "Green Belt" certification, and an accelerated five-year bachelor's/master's degree.

Coursework Includes
- Human Performance Modeling
- Cost Modeling and Analysis
- System and Process Simulation
- Optimization
- Quality Assurance and Improvement
- Manufacturing Methods
- Operations Modeling and Control

See program requirements in the UCF catalog at http://catalog.ucf.edu

Where Industrial Engineering Graduates Work
Defense and security; healthcare and biosciences; theme parks; transportation companies and planning agencies; manufacturing; aerospace; energy and environmental; retail supply chain; project management; consulting; education and training; simulation, and more. Companies that have hired UCF industrial engineering graduates include Lockheed Martin; Northrup Grumman; Harris Corporation; Florida Hospital; Disney; Universal Studios; NASA; UPS; Boeing; Google; American Express; Southwest Airlines; Duke Energy; Mitsubishi; and more.

Typical Starting Salary / Possible Job Titles
$53,500. Systems Engineer; Quality Engineer/Manager; Project Leader; Continuous Improvement Manager; Industrial Engineer/Manager; Logistics/Supply Chain Analyst or Manager; Manager, Analytics and Performance Analysis.

Related Student Organizations at UCF
Institute of Industrial and Systems Engineers
Alpha Pi Mu IE Honor Society
American Society for Quality

Related Minors
Engineering Leadership
International Engineering

Contact
Department of Industrial Engineering & Management Systems
407-823-2204
http://iems.ucf.edu
University of Central Florida
UCF's 13 colleges provide education and opportunities to 64,000 students from all 50 states and 152 countries. Located in Orlando, Florida, UCF is one of the nation's largest universities with 212 degree programs from which to choose. Students find community and camaraderie in more than 600 registered student organizations. See the UCF Viewbook at www.ucf.edu/admissions to learn more.

College of Engineering and Computer Science
With nearly 10,000 students, the college is among the nation’s top producers of engineers and computer scientists. Students receive rigorous instruction and graduate with solid technical skills.

During their academic career, students benefit from unique and innovative leadership and diversity-based support programs, such as the UCF Engineering Leadership & Innovation Institute (www.eli2.cecs.ucf.edu), and renowned STEM retention and mentoring programs described at www.stem.ucf.edu/stem-programs-at-ucf.

These programs are among the many reasons why the University of Central Florida was recognized along with Harvard, MIT, Stanford and Duke as one of the nation’s most innovative universities in U.S. News & World Report Best Colleges 2016 guide.

UCF Rankings

- Nation's #1 workforce supplier to the aerospace and defense industry (Aviation Week, 2015, 2016)
- Ranked #3 in nation, #28 in world, 2016 Association of Computing Machinery's International Collegiate Programming Competition.
- Ranked #1 among all state universities in Florida for performance measures that include graduation rates and graduates' employment and wages (Florida Board of Governors 2016)
- No. 1 choice of high school seniors in Florida and in the 12 states of the U.S. Southeast region (2016 Cappex College Considerations Report)