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 undergraduate catalog at **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

$54,000. 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
iems.ucf.edu

University of Central Florida

Located in Orlando, Florida, UCF is one of the nation's largest universities with more than 66,000 students from all 50 states and 152 countries. UCF's 13 colleges offer 212 degree programs. Students find community and camaraderie in more than 600 registered student organizations. To learn more, visit **www.ucf.edu/admissions**.

College of Engineering and Computer Science

With 10,000+ students, the college is among the nation's top producers of engineers and computer scientists. Students receive rigorous instruction, enhanced with real-world hands-on experiences, to graduate with solid technical skills in 11 majors offered: aerospace engineering; civil engineering; computer engineering; computer science; construction engineering; electrical engineering; environmental engineering; industrial engineering; information technology; mechanical engineering; and optics and photonics.

During their academic career, students benefit from unique and innovative leadership and diversity-based support programs, such as the UCF Engineering Leadership & Innovation Institute (eli^2) (**eli2.cecs.ucf.edu**), and renowned STEM retention programs described in detail at **stem.ucf.edu/stem-programs-at-ucf**.

UCF Rankings

- Nation's #1 workforce supplier to the aerospace and defense industry (*Aviation Week*, 2015, 2016)
- Ranks 11th among U.S. public universities for number of National Merit Scholars (289).
- *Kiplinger*, *Forbes* and The Princeton Review rank a UCF education among the nation's best values.
- Ranks #1 in nation, #13 in world among 13,000 regional teams, 2017 Association of Computing Machinery's International Collegiate Programming Competition.
- Home to three-time national champions: UCF Collegiate Cyber Defense Competition Team – 2014, 2015, 2016.
- U.S. Southeast Programming Team Champions – 2012, 2013, 2014, 2015, 2016.
- Ranks #5 out of 225 U.S. universities for number of patents granted, and #22 for success in research that leads to new technologies, products and companies (*2017 Milken Institute report*).
- Top choice of high school seniors in Florida and in the 12 states of the U.S. Southeast region (*2016 Cappex College Considerations Report*)

UNIVERSITY OF CENTRAL FLORIDA
has been designated as a
National Center of Academic Excellence
in Cyber Defense Education

College of Engineering and Computer Science
UNIVERSITY OF CENTRAL FLORIDA