

As a member of one of the country's top-tier research universities, the **College of Engineering & Computing (CEC)** is actively engaged in cutting-edge studies and education and is home to top-level research laboratories and facilities. CEC has two schools — Moss School of Construction, Infrastructure and Sustainability; and the School of Computing and Information Sciences — and four departments — Biomedical Engineering, Civil and Environmental Engineering, Electrical and Computer Engineering, and Mechanical and Materials Engineering.

## By the Numbers



# ENTERPRISE AND LOGISTICS ENGINEERING



**FIU's Enterprise and Logistics Engineering (ELE)** program offers several signature programs, both online and face-to-face, preparing students and professionals with broad knowledge and skills, combining business and engineering, to meet industry's needs. Ranked #16 for best online master's degree in engineering management by Best College Reviews, ELE connects program participants with industry leaders, exposing them to practical knowledge and insider expertise.

As a part of the College of Engineering & Computing, students enjoy experiential learning opportunities and close interaction with **WorldsAhead** faculty. Through internship opportunities in the industry and hands-on research activities in cutting-edge laboratories, graduates are prepared to hit the ground running in their chosen careers.

## RESEARCH

The Enterprise and Logistics Engineering (ELE) Programs Office is a leading center at FIU for the advancement and dissemination of enterprise & logistics engineering knowledge. Faculty members conduct both basic and applied research in the areas of enterprise systems engineering, logistics network & technology and quality engineering. Working closely with its industry partners, a highly qualified ELE faculty aims to address emerging challenges facing the logistics industry that arise from global logistics systems of growing complexity and disruptive logistics technology. With a focus on an in-depth study of logistics fundamentals, regulatory compliance, contemporary logistics technology and systems, faculty are able to develop an optimal solution to the logistics systems design and operation problems facing the logistics industry, today and tomorrow.

## FACULTY

ELE faculty members have extensive and diversified experience in all aspects of logistics systems design, enterprise operations, process improvement and total quality management. Karen Schmahl with Lean Six Sigma Black Belt certification focuses her research on quality engineering, total quality management and process improvement. Shih-Ming Lee's research focus is on the engineering economy, industrial finance and logistics engineering. Shabnam Rezapour focuses her research on disaster management, risk mitigation, applied operations research and logistics systems modeling and optimization. Chin-Sheng Chen is an expert in enterprise systems engineering, engineering project management, operations modeling and process improvement.

## PARTNERSHIPS

The SAP University Alliance, housed in the Enterprise and Logistics Engineering Office, offers comprehensive SAP hands-on training to FIU students and professors and hosts the SAP TERP10 certification exam workshop each year at FIU. Its enterprise systems engineering laboratory is equipped with enterprise systems development tool suites, as well as leading commercial ERP and logistics systems including SAP R3/ APO and Magaya software. It is linked to industrial-scale simulation platforms to enhance the student learning experience in a virtual logistics and enterprise business environment. The ELE Office works closely with its industry advisory board to expand its internship/ apprenticeship programs for students to apply academic theory to industry practice and acquire industrial experience.



Courtesy of UPS



Courtesy of Magaya

## GRADUATE DEGREES OFFERED

- M.S. Engineering Management\*
  - Technical tracks: computer science, computer engineering, construction management\*, electrical engineering, engineering entrepreneurship\*, enterprise systems\*, environmental engineering, information technology, logistics engineering\*, mechanical engineering, operations management orthotics & prosthetics, production and manufacturing\*, professional, risk and disaster management, structural/wind/construction, systems engineering\*, telecommunications, transportation engineering, and water resources engineering.
  - M.S. Logistics Engineering\*
- \*Also offered online

## COMBINED BACHELOR'S AND MASTER'S DEGREE (4+1) PROGRAM

The combined B.S. & M.S. Degree Program is an accelerated program designed for outstanding undergraduate students currently enrolled in the college who wish to pursue their M.S. degree while completing in the college their B.S. degree.

## RESEARCH HIGHLIGHTS

- Total quality management
- Enterprise systems engineering
- Process modeling and improvement
- Systems engineering and applied operations research
- Logistics operations, technology and systems
- Disaster management and risk mitigation

## GRADUATE RESEARCH OPPORTUNITIES

Students may conduct research in the following areas:

- Enterprise systems engineering
- Logistics technology and network modeling
- Disaster and risk mitigation

## FACILITIES

**Enterprise Systems Engineering Laboratory (ESEL):** Equipped with enterprise systems development tools and leading commercial ERP and logistics systems, and integrated with industrial simulators that enable a virtual enterprise logistics environment

POINTS  
OF PRIDE

Average in-house  
**SAP TERP1**  
certification pass rate at 90%\*  
\*Department of Enterprise and Logistics Engineering

Modular curriculum  
design with multiple  
delivery modes

**4**  
Fulbright Scholars  
(2014-2016)

Learn the business of engineering with programs designed to combine technology, law and business courses to prepare students with the broad knowledge and skills they need to successfully manage and lead today's organizations.