College of
ENGINEERING & COMPUTING

Enterprise and Logistics Engineering

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

POINTS OF PRIDE

4 Fulbright Scholars (2014-2016)

Average in-house SAP TERP10 certification pass rate at 90%*

Modular curriculum design with multiple delivery modes

*Department of Enterprise and Logistics Engineering

GRADUATE DEGREES OFFERED

- M.S. Engineering Management (also offered online)
- Technical tracks: biomedical engineering, civil & environmental engineering, construction management, computer & electrical engineering, mechanical & materials engineering, computer science, information technology, production and manufacturing, engineering entrepreneurship, risk management, enterprise systems and systems engineering), logistics, and orthotics and prosthetics
- M.S. Logistics Engineering (also offered online)

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

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