

IET 2449: Logistics and Supply Chain Management

3 Credit Hours

This course offers an analysis of decision making in the current logistics environment and the tools needed for finding solutions to problems relating to purchasing, inventory, transportation, and warehouse management.

IET 3320: Advanced Logistics

3 Credit Hours

Prerequisite: IET 2449

This course will expand on the topics covered leading students to a deeper understanding of logistics and supply chain systems. Special emphasis will be given to current trends in the field such as global logistics, reverse logistics, nontraditional supply chains and risk assessment/disaster recovery. Each student will also research in more depth a single topic that interest them

IET 3322: Work Measurement and Ergonomics

4 Credit Hours

This course will focus on work design and ergonomics in manufacturing. Topics will include work methods and production processes to improve operator effectiveness and reduce production costs. Techniques studied include operation analysis, motion study, work sampling, time study, line balancing and ergonomic applications.

IET 3339: Statistical Quality Control

3 Credit Hours

Prerequisite: IET 3403

A study of the fundamentals of statistical quality control is provided. Topics include statistical process control with emphasis on applications and techniques including control charts for variables and attributes, and process capability. Other topics include scientific sampling fundamentals, acceptance sampling by attributes and variables, and reliability.

IET 3356: Quality Concepts and Systems Design

3 Credit Hours

Students will study quality history, philosophies, and the relationship between quality and organizational performance excellence, as well as the managerial and engineering concepts needed to ensure quality and organizational success through quality.