

Southern Polytechnic State University
Industrial Engineering Technology Department

Certificate in Logistics

Six Courses Required

The primary objective of the *Certificate in Logistics* is to provide training and education to members of the Supply Chain industry that need to improve skills and knowledge in the latest technology available in their field. Students can complete the requirements in 4-6 semesters. The courses may also be applied toward completing a B. S. degree in Industrial Engineering Technology. The program will be offered on campus, through distance learning, and over the Internet.

Admission Requirements:

Applicants must have earned a High School degree or GED and been out of high school for at least five years or have earned 30 college credits from an accredited institution of higher learning with a minimum GPA of 2.0.

Required Courses:

IET 2227	Industrial Statistics	4
IET 3334	Production and Inventory Control	3
IET 4326	Wage and Salary Administration	3
IET 4354	Traffic Issues and Analysis	3
IET 4447	Purchasing and Supply Chain Systems	3
IET 4449	Logistics Planning and Control	3
IET 4460	Warehouse Operations	<u>3</u>
	Total	22 credits

NOTE: All prerequisites must be met to take a required course. Prerequisites are listed in the current SPSU catalog.

Course Descriptions:

IET 2227 Industrial Statistics

4-0-4

As a study of descriptive and inferential statistics and applied probability, the course includes measures of central tendency and variability, statistical sampling and estimation, standard probability distributions, introductions to hypothesis testing and nonparametric statistics. Industrial applications rather than theoretical developments are emphasized. Computer based solution techniques are used when appropriate.

IET 3334 Production and Inventory Control

3-0-3

The concepts of a basic production and inventory control system are central to this course. Material requirements planning and master production scheduling are covered. Inventory planning from outside vendors or internal production are considered. Various forecasting techniques are examined.

IET 4326 Wage and Salary Administration

3-0-3

The study of basic principles underlying the development, administration, and control of a compensation system for a work force. Topics covered will include the planning, selection, and training of a work force, compensation and motivation and evaluation of personnel. Heavy emphasis will be placed on the essential stages of the compensation-reward system and the techniques that may be used to remain competitive.

IET 4354 Traffic Issues and Analysis

3-0-3

A study of general economic characteristics and government regulation of rail, motor, water, air, and pipeline carriers. The different forms of transportation are analyzed in terms of service rendered, costs, transit time, reliability, capability, accessibility, security, and traceability. Labor relations and current issues in national transportation policy will also be discussed.

IET 4447 Purchasing and Supply Chain Systems

3-0-3

A study of the planning of purchasing and materials activities. Topics covered will include specification and standardization, vendor evaluation, receiving and storage, pricing, reciprocity, negotiation, legal aspects, and computer based purchasing. Just-in-time (JIT) ordering, bar code labeling, and electronic data interchange (EDI) will be examined.

IET 4449 Logistics Planning and Control

3-0-3

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 4460 Warehouse Operations

3-0-3

This course gives an in-depth approach to the proper ways to organize and operate a warehouse. Topics include warehousing, principles, site selection, facility design, facility size, JIT, automation, and advanced warehouse technology.

For Information, contact:

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