

LOGISTICS ENGINEERING TECHNOLOGY

Course Descriptions

ACCT 1212 Managerial Accounting (3 credits)

This course is a continuation of ACCT 1211 with special emphasis on the uses of financial measurements, calculations, and reports used by an organization to make a variety of management decisions. Specific uses discussed are methods for costing products and services, decision analysis, and budgeting. Lecture: 3 hours

BOA 1102 Excel I (2 credits)

This course explores Excel features and functions used in business and accounting applications. Students will learn to create and modify worksheets, insert formulas, create charts, enhance the appearance of workbooks, and manage files and folders. Lecture: 1.5 hour - Lab: 1.5 hours

BOA 1172 Excel II (2 credits)

This course uses intermediate and advanced features and functions of Microsoft Excel spreadsheet software. Students will learn advanced formatting techniques, work with templates, and use advanced features for financial, math, statistical, and logical functions to analyze and solve problems in a business environment. Students will test for the Microsoft Office Specialist certification for Excel at the end of this course. Lecture: 1.5 hours - Lab: 1.5 hours

COLS 1100 First Year Experience Seminar (1 credit)

The First Year Experience Seminar provides students with an introduction to the college. It emphasizes skills and resources necessary to be successful in their personal, academic and career-related pursuits. The course includes an orientation to college resources, policies, and processes. Sections of this course are H-designated Honors classes. Lecture: 1 hour

CSCI 1103 Intro to Programming Logic (3 credits)

CSCI 1103 introduces concepts of programming logic through algorithmic solutions applied to problem-domain scenarios. Examples of these scenarios are Computer Science disciplines such as programming languages, networking, operating systems, data-

bases, and others. The course covers the basic units of logic: sequence, selection, and loop. Students repair faulty algorithmic solutions. The course also uses basic UML (Unified Modeling Language) notation to model problem-domain objects via classes. Lecture: 2 hours - Lab: 2 hours

CSCI 1320 Database Fundamentals (2 credits)

This course will serve as the foundational course to the Business Intelligence certificate. It introduces the student to the fundamental concepts and techniques of relational database management, database technology, structured query language, database design, database management, web database applications and big data. Students perform hands-on labs with commercial software and databases provided by real-world scenarios. Lecture: 1 hour - Lab: 2 hours

CSCI 2330 Project Management Fundamentals & Case Studies (4 credits)

CSCI 2330 teaches the genesis of project management and its importance to improving the success of information technology projects. The student will demonstrate knowledge of project management terms and techniques such as the triple constraint of project management and the project life cycle using project management industry tools and techniques. Further, through the use of case studies, students will analyze and implement the concepts and techniques using appropriate project management documentation. This course satisfies PMI's 35-hour education requirement to sit for the Project Management Professional (PMP) Exam. Lecture: 2 hours – Lab: 4 hours

EET 2235 Data Acquisition Systems (3 credits)

This course will focus on electronic systems that extract data from their surroundings for statistical analysis. The digital data is catalogued, stored and sometimes utilized to make improvements on the object being measured. Through a combination of external hardware and/or software, such systems facilitate the collection of data in biomedical applications, aerospace products, automation processes, and robotics. "Human Machine Interface" (HMI), "Distributed



This material is based upon work supported by the National Science Foundation under Grant No. 1400452, 1700520.

Control Systems" (DCS) and "Supervisory Control and Data Acquisition" (SCADA) systems will be studied. Lecture: 2 hours - Lab: 2 hours

ENGT 1115 Engineering Graphics (3 credits)

This course covers basic blueprint reading, sketching and drafting, and beginning AutoCAD. Lecture: 1 hour – Lab: 4 hours

ENGT 1200 Intro Industrial /Systems Engineering (3 credits)

This course is an introduction to the basic principles of Industrial Engineering and the efficiencies derived from their application in a host of industries. Lecture: 3 hours

ENGT 1300 Intro Electric Motors, Controls, & PLC's (4 credits)

This course is designed to provide a general overview of electric motors, motor controls, and rudimentary PLC programming for non-Electro-Mechanical majors. Lecture: 3 hours - Lab: 3 hours

ENGL 1100 Composition I (3 credits)

English 1100 is a beginning composition course which develops processes for critically reading, writing, and responding to a variety of texts in order to compose clear, concise, expository essays. The course facilitates an awareness of purpose, audience, content, structure and style, while also introducing research and documentation methods. Course reading and writing assignments may be thematically organized. Lecture: 3 hours

ESSH 1101 Introduction to Environmental Science, Safety and Health (3 credits)

This course provides an overview of environmental science, with an emphasis on environmental issues and solutions to environmental problems. Topics include ecological concerns, human health effects from toxic exposures, energy use, air, water and soil pollution, solid and hazardous waste issues, and occupational safety and health. Lecture: 3 hours

MATH 1111 Discrete Mathematics for Computing (3 credits)

This college level mathematics course is designed for students seeking degrees in Computer Science (CSCI), Information Technology Support Technician (ITST), and Geographic Information Systems (GIS),

and introduces students to logic and mathematical structures required for computer programming. Elementary logic, set theory and Boolean algebra are introduced. Functions and relations are emphasized, along with types of functions common in business or scientific applications, properties of functions such as domain, range, and one-to-one functions, and recursion. Mathematical structures like summations and sequences, elementary probability and vectors are also introduced. Data types, number systems such as binary and hexadecimal, right angle, trigonometry, and applications of algebra are introduced in a contextualized framework that emphasizes collaborative problem-solving and applications to branches of programming practice. Lecture: 2 hours - Lab: 2 hours

PHIL 1130 Ethics (3 credits)

This course introduces students to moral reasoning, examining theories of right and wrong, good and bad, justice and injustice as they have been viewed in the past and as they shed light on contemporary ethical issues. Lecture: 3 hours

SCM 1100 Supply Chain Management Principles (3 credits)

Provides an overview of the key processes, concepts, and methodologies of supply chain management. Emphasis is given to the study of the impact that the supply chain management framework, (that includes distribution, procurement, inventory, transportation and information technology components) has on business and the economy. The decision - making process within supply chain is of particular importance as the interrelationships (cost and service trade-offs) between logistics and other areas of business will be covered. The overall focus is the strategic and financial significance the supply chain has on the firm's ability to add customer value. Lecture: 3 hours

SCM 1501 IT in Logistics (3 credits)

Introduces students to the IT Systems Operations and Applications of supply chain management. The purpose is to provide greater understanding of Information Systems and Information Technology (IS/IT) and its contribution to the business enterprise and the importance of IS/IT in embracing the complex and time saving processes in supporting the logistics operational processes. Lecture: 3 hours



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SCM 2110 Warehouse Management (4 credits)

A basic warehouse management procedures and skills course that focuses on "nuts & bolts" warehousing skills including basic warehousing functions and supporting skills such as: receiving, storage, order picking, shipping, performance measurement, documentation, powered industrial truck operator safety training, inventory control, hiring, firing, and employee motivation handling returns automated identification technology basic unitization practices, freight claims, hazardous materials, and auditing both private and third-party warehouse operations. The need for close working relationships among the warehouse and other departments of the business is also covered. Lecture: 4 hours

SCM 2111 Inventory Management (3 credits)

Discusses inventory management and control function(s) covering such topics as material management, purchasing, forecasting, inventory fundamentals, order quantities, independent demand, physical and cycle count inventories, warehouse management, physical distribution, just-in-time manufacturing, and total quality management. Lecture: 3 hours

SCM 2601 Performance Management for SCM Managers (3 credits)

Designed around developing the skills required to plan, implement and evaluate performance competencies of an organization. Emphasis is placed on the interdependencies between the corporate strategic planning process and the role performance management plays in managing individual and group performance. Special emphasis is placed on performance as it relates to the planning, and managing of the supply chain. The student will explore topics such as how to proactively approach and resolve performance issues; developing and managing a balanced score card, selecting metrics to measure business and supply chain performance; creating positive relationships to ensure effective communication. Lecture: 3 hours

SCM 2802 SCM Seminar (1 credit)

Focuses on the application of logistics knowledge to specific areas of on-the-job experience. Course is open only to Supply Chain Management Technology students who have completed 12 hours in the technology and have permission of the instructor. Seminar: 1 hour

SCM 2902 SCM Practicum (1 credit)

{resents an opportunity for supervised, on-the-job application of knowledge and skills acquired in the classroom. Open only to Supply Chain Management Technology students who have completed 12 hours in the technology and have permission of the instructor. Practicum: 7 hours

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**For more information:
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csc.edu/about/grants/let/**



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