

# INFORMATION TECHNOLOGY & SUPPLY CHAIN MANAGEMENT (ITSCM)

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## Courses

### ITSCM 690 WORKSHOP *Repeatable* 1-3 Units

Variable topics. Group activity oriented presentations emphasizing 'hands on' and participatory instructional techniques.

### ITSCM 691 TRAVEL STUDY *Repeatable* 3 Units

Variable topics. Faculty-led courses abroad.

### ITSCM 696 SPECIAL STUDIES *Repeatable* 1-3 Units

Variable topics. Group activity. Not offered regularly in the curriculum but offered on topics selected on the basis of timeliness, need, and interest, and generally in the format of regularly scheduled Catalog offerings.

### ITSCM 715 TECHNOLOGY AND INFORMATION SYSTEMS 2 Units

A graduate business course that provides a fundamental understanding of technology and information systems in organizations. The course surveys a wide range of information topics covering management, organizational, and technology foundations of information systems. Emphasis is placed on how organizations plan, implement, and use information systems for operational and strategic excellence.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR CERTIFICATE PROGRAM

### ITSCM 719 OPERATIONS MANAGEMENT 2 Units

A survey course focusing on the performance of managerial activities entailed in selecting, designing, operating, controlling, and updating productive systems. This life cycle approach will include treatment of non-manufacturing activities, and will draw heavily upon latest developments in the field.

PREREQ: ECON 703, OR ECON 245 WITH A GRADE OF "C" OR BETTER, OR EQUIVALENT; MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR CERTIFICATE PROGRAM

### ITSCM 745 STRATEGIC TECHNOLOGY AND INNOVATION MANAGEMENT 2 Units

A graduate business course covering technology led strategic innovation designed to provide an understanding of the dynamic links between technology and innovation strategy. Students will acquire essential managerial and critical thinking skills to develop competitive technology enhanced business strategies and models.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE PROGRAM

### ITSCM 760 TOPICS IN INFORMATION TECHNOLOGY AND MANAGEMENT 3 Units

This course addresses a changing milieu of topics concerning information systems business. Topics may include new methodologies and products that implement them, new problem solving approaches, or emerging business and environmental concerns.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE PROGRAM

### ITSCM 761 SUPPLY CHAIN SYSTEMS 3 Units

The course uses a supply chain management framework to study the flow of material. Topics include capacity planning, production systems, production planning, material planning, sourcing, and delivery of products. In addition, the role of information systems in integrating operations throughout the supply chain is discussed. The course uses case studies and research papers.

PREREQ: ITSCM 719, OR ITSCM 306 WITH A GRADE OF "C" OR BETTER, OR EQUIVALENT; MUST BE ADMITTED TO A COBE GRADUATE DEGREE PROGRAM

### ITSCM 763 GLOBAL OPERATIONS MANAGEMENT 3 Units

The objective of this course is to enhance the student's ability to conceptualize and manage global operations effectively. A wide range of topics, concepts, theories, and tools related to the operations of both manufacturing and service firms are explored from an international perspective. The comparative position of U.S. production systems is evaluated to help firms become more competitive globally.

PREREQ: ITSCM 719, OR ITSCM 306 WITH A GRADE OF "C" OR BETTER, OR EQUIVALENT; MUST BE ADMITTED TO A COBE GRADUATE DEGREE PROGRAM

### ITSCM 765 TOPICS IN PROJECT MANAGEMENT 3 Units

This course addresses emerging or context specific project management concepts, techniques, and technologies. Topics may include new methodologies and technologies that implement them, or project management in a specific industry or work context.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR PROJECT MANAGEMENT CERTIFICATE PROGRAM

### ITSCM 768 OPERATIONS STRATEGY 3 Units

A course focusing on strategic implications of operations decisions facing the top manager, such as the operations vice-president or plant manager. Cases are used to identify, analyze and recommend solutions to specific problems resulting from corporate decisions taken in the areas of processes and infrastructure. Current trends in selected industries are discussed.

PREREQ: ITSCM 719, OR ITSCM 306 WITH A GRADE OF "C" OR BETTER, OR EQUIVALENT; MUST BE ADMITTED TO A COBE GRADUATE DEGREE PROGRAM

### ITSCM 769 QUALITY ISSUES IN OPERATIONS 3 Units

Course focuses on qualitative and quantitative techniques used to study and improve quality of operations in manufacturing and service organizations covering topics such as quality philosophy, statistical process control (SPC), acceptance sampling, tools for quality improvement, product and process design. The role of quality in the entire cycle including product/ service design, development, production, delivery, and customer support is emphasized.

PREREQ: ITSCM 719, OR ITSCM 306 WITH A GRADE OF "C" OR BETTER, OR EQUIVALENT; MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR PROJECT MANAGEMENT CERTIFICATE PROGRAM

### ITSCM 770 FUNDAMENTALS OF PROJECT MANAGEMENT 2 Units

This course develops a basic understanding of a project management methodology through lectures, case analyses, problem solving and discussions. Topics covered include planning, budgeting, scheduling, resource allocation and controlling of projects. The course provides a good background for students interested in pursuing certification in the area of project management.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR PROJECT MANAGEMENT CERTIFICATE PROGRAM

**ITSCM 772 INFORMATION TECHNOLOGY SERVICE MANAGEMENT 3 Units**

The course is designed to introduce information technology service management in a variety of enterprise and service industry settings. Concepts of IT service management based on contemporary best practices such as ITIL are covered. The course will cover the management of service systems, IT service system design, operations, and management.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE PROGRAM

**ITSCM 773 DATA FOUNDATIONS FOR BUSINESS ANALYTICS 3 Units**

This course focuses on developing managerial skills of understanding and use of common data resources in business. Topics covered include traditional data warehousing, data marts, real time data loading, importance of data quality, understanding of data meaning, metadata management, extraction of data using SQL, and the impact of data transformation rules on loading data into data warehouses.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR DATA ANALYTICS CERTIFICATE PROGRAM

**ITSCM 774 DATA ANALYTICS AND BUSINESS INTELLIGENCE 3 Units**

A graduate course covering the use information technology to assist decision making in today's business environment. This course provides an overview of decision making theory, data warehousing, data mining, business intelligence and analytics. The course also surveys contemporary framework, tools, and techniques for BI and data analytics.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR DATA ANALYTICS CERTIFICATE PROGRAM

**ITSCM 776 BUSINESS PROCESS INNOVATION AND MANAGEMENT 3 Units**

The course provides an overview of concepts, methods and tools surrounding the definition, implementation, measurement and improvement of processes in organizations. Strategic and tactical phases of the Business Process Management lifecycle, consisting goal setting, process design, process implementation, process enactment and measurement, and process evaluation are covered.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR DATA ANALYTICS CERTIFICATE PROGRAM

**ITSCM 777 DATA MINING FOR BUSINESS 3 Units**

This course focuses on the application of data mining for business. Topics covered include mining structured data, techniques for handling big data, working with unstructured data. Emphasis is placed on identifying and applying appropriate mining techniques for specific business problems, and interpreting the validity and utility of the results. Students will use data mining software to gain practical experience.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR DATA ANALYTICS CERTIFICATE PROGRAM

**ITSCM 780 DISASTER RECOVERY AND BUSINESS CONTINUITY 3 Units**

The course covers Business Continuity Planning, a methodology used to create and validate a plan for maintaining continuous business operations before, during, and after disasters or disruptive events. It also covers Disaster Recovery, which is aimed at stopping the effects of disasters as quickly as possible, and addressing the immediate aftermath.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR PROJECT MANAGEMENT CERTIFICATE PROGRAM

**ITSCM 782 GLOBAL PROJECT MANAGEMENT 3 Units**

This course prepares students for global project management, effective teamwork and collaboration from theoretical and practical viewpoints. Students are prepared to understand key issues in systems lifecycle planning, managing and coordinating distributed project teams, organizing work products, implementing process and quality metrics, maintaining effective control and coordination, and risk management.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR PROJECT MANAGEMENT CERTIFICATE PROGRAM

**ITSCM 785 APPLIED PROJECT MANAGEMENT 3 Units**

This course utilizes a formal project management process to convey the key competencies that project managers must develop. Students will apply project management tools and techniques to execute a full project. Topics covered include project management and organization; planning; budgeting; scheduling; resource management; project control; project termination; project management tools; and project completion hours. Emphasis is on hands-on application.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE DEGREE OR PROJECT MANAGEMENT CERTIFICATE PROGRAM

**ITSCM 790 WORKSHOP Repeatable 1-3 Units**

Variable topics. Group activity oriented presentations emphasizing `hands on` and participatory instructional techniques.

**ITSCM 793 OCCUPATIONAL EXPERIENCE 1-3 Units**

Designed to be undertaken by qualified business teachers and prospective teachers through participation in a coordinated work-study program in certain business offices or retail establishments. This course correlates classroom training and experience with business or marketing experience and standards.

**ITSCM 794 SEMINAR 1-3 Units**

Variable topics. Group activity. An advanced course of study in a defined subject matter area emphasizing a small group in intense study with a faculty member.

**ITSCM 796 SPECIAL STUDIES IN BUSINESS**

**EDUCATION Repeatable 1-6 Units**

Variable topics. Group activity. Not offered regularly in the curriculum but offered on topics selected on the basis of timeliness, need, and interest, and generally in the format of regularly scheduled Catalog offerings.

**ITSCM 798 INDIVIDUAL STUDIES Repeatable 1-3 Units**

Study of a selected topic or topics under the direction of a faculty member.

PREREQ: MUST BE ADMITTED TO A COBE GRADUATE PROGRAM; HAVE DEPARTMENT CONSENT

**ITSCM 799 THESIS RESEARCH Repeatable 1-3 Units**

Students must complete a Thesis Proposal Form in the Graduate Studies Office before registering for this course.