

# Operations & Supply Chain Mgmt Courses

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## Courses

### **OSCM 3321. Production/Operations Mgmt.**

Production/Operations Management: Production management and its relationship to marketing, finance, and accounting functions are described. Forecasting demand, aggregate planning, inventory planning and control, and scheduling provide the basis for linking strategic plans to the production plan. Other topics discussed include: quality control, product and process design, facility location and layout, productivity improvement and project management.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (QMB 2301 w/C or better)

### **OSCM 3322. Adv Production/Operations Mgmt.**

Advanced Production/Operations Management: Discusses the design and implementation of Advanced Manufacturing Technologies (AMT). This includes Just-in-Time (JIT) systems, cellular and Flexible Manufacturing Systems (FMS), and Computer Integrated Manufacturing (CIM). It also explores the key role that manufacturing plays in product development efforts and cross-functional teams. Other topics such as manufacturing, strategy, maintenance, and the design of work systems are presented as well. Case studies and group projects/presentations are used for instructional purposes.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/D or better)

### **OSCM 3322A. Adv Prod/Oper Mgmt Lab.**

Advanced Production and Operations Management Laboratory This course introduces the concepts and tools to design and build computer simulation models of real-world business systems in both the service and manufacturing sector. The simulation models emphasize the analysis of the system's processes and operations over time. The purpose of the simulation models is to conduct numerical experiments and understand the behavior of the system under a given set of conditions. Prerequisite: OSCM 3321 and concurrent registration OSCM 3322.

**Department:** Operations & Supply Chain Mgmt

**1.5 Credit Hour**

**1.5 Total Contact Hour**

1.5 Lab Hour

0 Lecture Hours

0 Other Hours

**Prerequisite(s):** (OSCM 3321 w/C or better)

**Corequisite(s):** OSCM 3322

### **OSCM 3331. Service Operations Management.**

Service Operations Management (3-0) Methods of process analysis in service organizations, methods improvement procedures, and work measurement techniques are developed to provide the basis for analyses of processes, layouts, and job design in an organization. Restricted to majors: ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, MGMT, MKT, OSCM. Prerequisite: OSCM 3321.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (OSCM 3321 w/D or better ) OR (POM 3321 w/D or better)

**OSCM 3332. ERP and Busn Intell Systems.**

This course expands the knowledge of ERP systems and explores their advanced features. Comprehensive ERP applications are studied and advanced business intelligence tools are utilized to understand how they enhance the decision making process. ERP integrated and external business intelligence tools are considered.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (ACCT 2301 w/C or better AND ACCT 2302 w/C or better AND ECON 2303 w/C or better AND ECON 2304 w/C or better AND QMB 2301 w/C or better)

**OSCM 3333. Production Planning & Control.**

Production Planning and Control: Material planning and control systems utilizing material requirements planning (MRP) techniques. Production planning, master production scheduling, MRP, capacity requirements planning, and shop floor control techniques are examined from both conceptual and practical standpoints.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/D or better AND QMB 3301 w/D or better)

**OSCM 3333A. Prod Planning & Control Lab.**

Production Planning and Control Lab This course covers the configuration and implementation of Manufacturing Planning and Control concepts in an ERP system . It includes the practice of Demand Management, Resource Planning, Sales and Operations Planning, Capacity Requirements Planning, and Material Requirements Planning. Some emphasis will be placed on Process Management.

**Department:** Operations & Supply Chain Mgmt

**1.5 Credit Hour**

**1.5 Total Contact Hour**

1.5 Lab Hour

Lecture Hours

0 Other Hours

**Corequisite(s):** OSCM 3333

**OSCM 3335. Project Management.**

Project Management: Various aspect of project management from conception and planning to project control and termination are discussed. Topics include: project scheduling, precedence diagramming, PERT, CPM, budgeting, and project management information systems. Organizational and conceptual issues such as project team development and management structure will be addressed.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (OSCM 3321 w/D or better AND QMB 3301 w/D or better)

**OSCM 3336. Inventory Management.**

Inventory Management (3-0) A study of the concepts, principles, problems, and procedures involved in managing inventories of raw materials, work-in-process, finished goods, and supplies. Some emphasis will be placed on the formulation and application of models for the analysis and replenishment of inventories. Implications for inventory management of material requirements planning and just in time systems will also be discussed. Restricted to majors: ACCT, BSAD, CIS, ECON, FIN, GENB, MGMT, MKT, OSCM. Prerequisite: OSCM 3322. OSCM 3322 may be taken concurrently with OSCM 3336.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (OSCM 3321 w/D or better)

**OSCM 3337. Logistics Management.**

Logistics Management: Analysis of logistics concepts, activities, and decisions necessary to plan, implement, and control the private and public physical distribution of goods and services. The focus and emphasis of the course is on physical, human, informational, global, and organizational system components. The course includes such logistics topics as inventory, facility locations, warehousing, traffic and transportation, materials handling, packaging, order processing, customer service, and global logistics.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/D or better)

**OSCM 3339. Quality Planning and Control.**

Quality Planning and Control: A study of the most effective methods for improving product and process quality in manufacturing and service operations. The course covers the following topics: statistical control charts, quality auditing. Japanese QC tools, process capability, loss functions, statistical tolerances, and experimental design. Statistical computer software will be used.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/D or better)

**OSCM 3390. Internship-Prod/Oper Mgmt.**

Internship in Production/Operations Management: A practical and on-site experience is an essential aspect of the learning process for OSCM students. A practical experience in a service operations/manufacturing enterprise will be emphasized. The student will be required to write a paper in a relevant topic agreed upon with the supervising faculty.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/D or better ) OR (POM 3321 w/D or better)

**OSCM 4315. Purchasing & Supply Management.**

Purchasing and Supply Management: The course addresses the strategic and operational side of the purchasing and the supply function in the organization and between organizations. The focus includes developing and implementing a procurement strategy, supplier selection and development, buyer-supplier relationships, global sourcing, negotiation, contract management, and quantity, quality, and cost/price considerations for the purchase of goods and services.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/D or better)

**OSCM 4371. Trans & Warehousing Sys.**

Transportation and Warehousing Systems: Role of transportation systems in economic activity; emphasis on modes of transportation analysis and planning, and the management of transportation systems in supply chains. Administration of warehouse and terminal functions in logistics systems, with analysis of customer service, forecasting, investment, design, and operation activities.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/D or better)

**OSCM 4375. Oper Mdl for Supply Chain Mgmt.**

Operational Models for Supply Chain Management: An examination of some of the major operational concepts and issues relating to the flow of materials, goods, services, and information through a company's supply chain-the network of organizations that supply and transform materials and distribute final products to customers. The course seeks to provide an understanding of the importance of individual components (suppliers, manufacturers, distributors, and customers) in the operation of the supply chain. It will emphasize inventory-service level tradeoffs, risk pooling, and other operational concerns. Some of the more recent approaches designed for the effective and efficient operation of the supply chain will be discussed.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

3 Lecture Hours

0 Other Hours

**Prerequisite(s):** (OSCM 3321 w/D or better AND QMB 3301 w/D or better)

**OSCM 4398. Independent Study in POM.**

Independent Study in Production/Operations Management: The student studies a topic as a semester-long project. Prerequisite: Department approval.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**3 Total Contact Hours**

0 Lab Hours

0 Lecture Hours

3 Other Hours

**Major Restrictions:**

Restricted to majors of ACCT, BAMA, BSAD, CIS, ECON, FIN, GENB, INBU, INFS, IS, ISBA, MGMT, MKT, OSCM

**Prerequisite(s):** (OSCM 3321 w/S or better)

**OSCM 4399. Current Topics in OSCM.**

Current Topics in OSCM Topics to be announced. This course may be repeated for credits as topics are changed. This course requires departmental approval.

**Department:** Operations & Supply Chain Mgmt

**3 Credit Hours**

**6 Total Contact Hours**

3 Lab Hours

3 Lecture Hours

0 Other Hours