

# OPERATIONS MANAGEMENT (OM)

## Course Descriptions

### OM 300 Intro to Operations Management 3 Credit Hours

Concerned with the strategic, tactical and short-term managerial issues relating to the efficient production of services and products. Examples of such issues are: manufacturing technology selection, facility location, strategic, tactical and operational planning and control and quality. (F,W,S)

**Prerequisite(s):** (MATH 104 or MATH 1040 or MATH 100 or MATH 1000 or MATH 105 or MATH 113 or MATH 115 or Math Placement with a score of 115) and (DS 301\* or DS 300\* or HHS 410\* or IMSE 317\* or STAT 305\* or STAT 325\* or ECON 305\* or MATH 325\* or PSYC 381\*)

**Restriction(s):**

Cannot enroll if Class is Freshman

### OM 460 Supply Chain Management 3 Credit Hours

This course explores the basic concepts of managing flow of materials in a typical enterprise supply chain. Students will examine a complete overview of material flow, for internal and external suppliers, to and from the enterprise.

**Prerequisite(s):** OM 300 or OM 400

**Restriction(s):**

Can enroll if Level is Undergraduate

### OM 465 Strategic Sourcing 3 Credit Hours

This course provides an in-depth analysis of the procurement process and supplier management with strong analysis placed on managing a supplier base for both products and services. Both theoretical and quantitative perspectives will be offered. In addition, topics will be addressed from strategic, financial and global perspectives.

**Prerequisite(s):** OM 300 or OM 400

**Restriction(s):**

Can enroll if Class is Sophomore or Junior or Senior

### OM 470 Analytics & Design of Supply Chains 3 Credit Hours

This course aims to equip students with a comprehensive understanding of data-driven decision-making regarding the operations of a supply chain system by employing analytics approaches. The course focuses on the strategic role of supply chain management and design, guiding decisions through data to resolve significant supply chain problems and improve performance. (F, W).

**Prerequisite(s):** OM 300 or OM 400

**Restriction(s):**

Can enroll if Level is Undergraduate

### OM 472 Production Planning and Control 3 Credit Hours

This course covers supply chain planning and control techniques used to efficiently manage the flow of materials and utilization of people and equipment to meet customer demand. Topics cover how information system algorithms support management decision making in areas such as Demand Management, Sales and Operations Planning, Master Production Scheduling, Capacity Planning, Production Activity Control and Distribution Requirements Planning.

**Prerequisite(s):** OM 300 or OM 400

**Restriction(s):**

Can enroll if Class is Junior or Senior

### OM 475 Supply Chain Logistics Mgmt 3 Credit Hours

The overarching course objective is to develop an in-depth understanding of integrative managerial issues and challenges related to developing and implementing a firm's logistics strategy. Attention is directed to the logistical mission confronted by varied types of business organizations. Logistics is positioned as a value-adding process that achieves time and place synchronization of demand stimulation and operations fulfillment. Emphasis will be placed on challenges related to providing logistical support for procurement, manufacturing and market-distribution.

**Prerequisite(s):** OM 300 or OM 400

**Restriction(s):**

Can enroll if Level is Undergraduate

### OM 480 ERP in SCM 3 Credit Hours

This course provides in-depth coverage of the role and value of enterprise resource planning (ERP) concepts in managing a supply chain. ERP is covered from the perspective of management, implementation teams and end-users. Students experience using a real ERP system and SAP, to manage a simulated business environment executing integrated end-to-end business processes in the areas of planning, procurement, production and sales. Approximately 99 of the 100 largest companies in the world are SAP customers.

**Prerequisite(s):** (OM 300 or OM 400) and (ISM 310 or ITM 310 or MIS 310)

**Restriction(s):**

Can enroll if Class is Freshman or Sophomore or Junior or Senior

### OM 483 Seminar: Operations Management 1 to 3 Credit Hours

To provide students with an opportunity for intensive study in current selected areas related to the research activities and/or professional activities of faculty members. Permission of School of Management.

**Restriction(s):**

Can enroll if Class is Senior

Can enroll if College is Business

### OM 483B Supply Chain Management Case Study Analysis 3 Credit Hours

The purpose of this experiential learning course is to teach students how to understand, analyze, and solve business case studies in the field of operations and supply chain management. The business case study is a powerful learning tool used in many business schools. In this course, we cover different approaches for effectively analyzing, discussing, and presenting business case studies. Topics include how to classify different types of cases and quickly establish a base of knowledge about a case. Strategies and templates for case analysis are covered in addition to how to persuasively present case-analytical solutions. Analysis and presentation of multiple business case studies are explored throughout the term. (OC).

**Prerequisite(s):** OM 300 and OM 460\*

### OM 493 Research:Operations Management 1 to 3 Credit Hours

To provide the advanced student with the opportunity to undertake a research project under the supervision of a faculty member. At least two weeks prior to registration in the term when such a course is to be elected, an interested student must submit to the dean of the school a written request for permission to elect a research course, on a form available in the school office. The request will include a description of the proposed research project. The dean will review the proposal with faculty members to ascertain availability of relevant faculty supervision and to establish appropriate credit. Permission of College of Business.

**Restriction(s):**

Can enroll if Class is Senior

Can enroll if College is Business

\*An asterisk denotes that a course may be taken concurrently.

### Frequency of Offering

The following abbreviations are used to denote the frequency of offering:  
(F) fall term; (W) winter term; (S) summer term; (F, W) fall and winter terms; (YR) once a year; (AY) alternating years; (OC) offered occasionally