

THE  
UNIVERSITY of TENNESSEE at CHATTANOOGA   
COLLEGE of BUSINESS

Department of Management

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<b>COURSE:</b>	MGT 4280
<b>TITLE:</b>	Supply Chain Management
<b>PREREQUISITES:</b>	MGT 3110
<b>CREDIT:</b>	3 hours
<b>FACULTY:</b>	David Witt
<b>TEXT:</b>	Manufacturing Planning and Control Systems for Supply Chain Management, Sixth Edition, Vollmann, Berry, Whybark, & Jacobs (Irwin) 2010, ISBN 978-007-3377827, <a href="http://www.mhhe.com/jacobs-berry6e">www.mhhe.com/jacobs-berry6e</a>

### CATALOG DESCRIPTION

Concepts and techniques related to designing and managing supply chains. Topics include master production scheduling, material requirements planning, capacity requirements planning, logistics, purchasing/sourcing, warehousing, and inventory management. Emphasis on analysis of the competitive environment, distribution network alternatives, and customer service aspects provide a background in each functional area to enable students to pursue their areas of interest. Fall semester. Prerequisites: MGT 3110, junior standing or department head approval. Differential course fee will be assessed.

### OBJECTIVES

Achieving competency is designing and managing supply chains through fulfilling the following:

- Master demand forecasting and management techniques.
- Learn Master Production Schedule and capacity management techniques
- Learn to develop Material Requirements Plans, Capacity Requirements plans, and Distribution Requirements plans
- Learn to manage supply chain logistics
- Achieve expertise in various inventory management and control methods

### SKILLS AND COMPETENCIES

We will analyze data and expand proficiency in the use of data, recognize problems and opportunities and encourage critical thinking, develop expertise in an area related to career choice, communicate effectively in written form, and foster understanding of the impact of business decisions in supply chain management.

## **COURSE CONDUCT**

Class meetings will be devoted to lectures and discussion of the material from the texts and current issues from other sources. We will use the Socratic Method and students are expected to participate in active dialog regarding the topic at hand. You will need your book in order to review concepts and work on homework. Please make sure you bring your textbook to each and every class.

## **GRADING SYSTEM**

Your grade will be determined by and based on the following components and weights. None of the exams will be deliberately cumulative, although concepts developed in the earlier portion of the course have applications in the later portions. Eligible material for the exams includes all text and lecture material covered prior to the exam.

Exams and quizzes will be open book and open notes (including homework problems). The essay part of the exams will be closed book. Grades will be based on the following weights:

EXAM 1	100 points	<b>Grading</b> 90% and above = A 80% - 90% = B 70% - 80% = C 60% - 70% = D Below 60% = F
EXAM 2	100 points	
FINAL EXAM	100 points	
HOMEWORK	60 points	
QUIZZES	50 points	
PARTICIPATION & ATTENDANCE	40 points	
Total	450 points	

All grades will be earned based on quality, completeness, and technical proficiency. In order to complete the course all projects, assignments, exams, etc. must be completed.

### **Participation & Attendance (40 Points)**

Participation and attendance are both expected of all students for each class. Students must come to class prepared which means having fully read and analyzed the various readings and assignments. Participation points must be earned. Attendance is also vital so we may have a full intellectual discussion. If there is an emergency and you will not be able to attend class please notify me as soon as possible. Participation will be rewarded in part by being prepared to discuss homework assigned. Advance notice is required if a student is unable to make it to class.

### **Homework (60 Points)**

Homework will be assigned for each class. The cumulative homework will grade up to 60 points. It is expected that students will come prepared to discuss the problems and essays assigned and share their work with the class.

### **UTC Honor Code Pledge**

I pledge that I will neither give nor receive unauthorized aid on any test or assignment. I understand that plagiarism constitutes a serious instance of unauthorized aid. I further pledge

that I will exert every effort to insure that the Honor Code is upheld by others and that I will actively support the establishment and continuance of a campus-wide climate of honor and integrity.

**ADA STATEMENT: Attention:** If you are a student with a disability (e.g., physical, learning, psychiatric, vision, hearing, etc.) and think that you might need special assistance or a special accommodation in this class or any other class, call the Disability Resource Center (DRC) at 423-425-4006 or come by the office, 102 Frist Hall. (See <http://www.utc.edu/disability-resource-center/>.)

If you find that personal problems, career indecision, study and time management difficulties, etc. are adversely affecting your successful progress at UTC, please contact the Counseling and Career Planning Center at 425-4438 or <http://www.utc.edu/Administration/CounselingAndCareerPlanning/>

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### COURSE SCHEDULE

DATE	ACTIVITY
Week 1	Course Overview – Chapter 1 (Manufacturing Planning & Control for Supply Chain Management)
Week 2	Chapter 4 and 4A – Sales and Operations Planning (SOP)
Week 3	Chapter 5 – Master Production Scheduling (MPS)
Week 4	Chapter 5 – Master Production Scheduling (MPS) ... continued
Week 5	<b>EXAM 1</b>
Week 6	Chapter 6 – Materials Requirement Planning (MRP)
Week 7	Chapter 6A – Advanced Mat. Req. Planning (MRP)
Week 8	Chapter 7 – Capacity Planning & Management
Week 9	Chapter 9 – Just-in-Time
Week 10	<b>EXAM 2</b>
Week 11	Chapter 10 – Distribution Requirements Planning
Week 12	Chapter 10A – Management of Supply Chain Logistics
Week 13	Chapter 11 – Order Point Inventory Control Methods

Week 14	Chapter 12 – Strategy and Manufacturing Planning & Control (MPC) System Design
Week 15	<b>FINAL EXAM</b>