



Operational Models for Supply Chain Management

OSCM 4375 Spring 2017

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Class Hours: MW 9:00-10:20 p.m. BUSN 319

Office Hours: MTWR 7:30-9:00 a.m.

Textbook: *Supply Chain Management: Strategy, Planning, and Operations*, by Sunil Chopra and Peter Meindl, Prentice Hall, 5th edition (ISBN-10: 0132743957, ISBN-13: 9780132743952).

Welcome to Operational Models for Supply Chain Management, the official information for OSCM 4375 course, including grades, will be posted on Blackboard. You are responsible for reading the “Announcements”, “Assignments”, and any other information concerning this course; check your Blackboard account daily.

Course description (*From Goldmine*)

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.

Objectives:

At the completion of this course students will be able to:

1. Identify the global trends in Supply Chain Models.
2. Define the individual components in the operations of the supply chain.
3. Explain the inventory-service level tradeoffs.
4. Describe how to manage risk pooling.
5. Explain the implementation issues associated with supply chain modeling.
6. Define the key design issues associated with supply chain modeling.
7. Define the key factors for assessing supply chain models.
8. Describe the analysis and assessment of supply chain models.

Prerequisite:

OSCM 3321, QMB 3301 and CIS 3345.

Lectures

Important material from the textbook and some outside sources will be covered in class. You should plan to take careful notes. Discussion is encouraged about the topics being covered. PLEASE BRING A COMPUTER RUNNING EXCEL TO CLASS.

Partial Exam

This is an in-class exam. It covers the class materials and chapters in the textbook taught up to the date of the last class before the exam. The maximum completion time is 80 minutes. There is not make-up of any partial exam.

Final Exam

This is a final comprehensive exam covering all the class lecture materials and chapters in the textbook taught during the semester. The maximum completion time is two hours.

Grading Policy:

- 10 % First Partial Exam
- 10 % Second Partial Exam
- 10 % Third Partial Exam
- 20 % Final exam
- 20 % Project
- 30 % Homework

There are no curves, bonus points, extra credit, etc. The final numerical grade is not rounded up, for example, 89.99 is not rounded up and since $89.99 < 90$ the corresponding final grade is "B".

- A numerical grade ≥ 90
- B $80 \leq$ numerical grade < 90
- C $70 \leq$ numerical grade < 80
- D $60 \leq$ numerical grade < 70
- F numerical grade < 60

COURSE POLICIES**1. Academic Integrity**

Cheating is unethical and not acceptable. Plagiarism is using information or original wording in a paper without giving credit to the source of that information or wording: it is also not acceptable. Do not submit work under your name that you did not do yourself. You may not submit work for this class that you did for another class. If you are found to be cheating or plagiarizing, you will be subject to disciplinary action, per UTEP catalog policy. Refer to <http://www.utep.edu/dos/acadintg.htm> for further information.

2. Missed Classes

You are expected to come to class, pay attention, and take good notes. If you miss the class, it is your responsibility to obtain notes from your classmates and complete the corresponding assignments.

3. Homework

Please notice that you should complete homework on Blackboard. Homework cannot be done after its due date, if you expect to miss class, be sure you will be able to do the homework before its due date.

4. Exams

Exams are basically from material discussed in the class. You are responsible to bring a calculator to the exam as you need to solve quantitative questions. A missed exam will result in a score of 0 (zero) for that exam, and **THERE ARE NO MAKEUP EXAMS**. Please note the final exam will be comprehensive covering all materials in the class. Graded exams will be returned during the following class. Do not discard them once you have looked at them – they may come handy if there is a discrepancy later on.

5. Need for Assistance

If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

6. Student Responsibility

Individual students must operate with integrity in their dealings with faculty and other students; engage the learning materials with appropriate attention and dedication; maintain their engagement when challenged by difficult learning activities; contribute to the learning of others; and perform to standards set by the faculty.

Note: This is a tentative syllabus and the instructor reserves the right to make appropriate changes.

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Course Outline:

Lecture	Class Discussion	Assignment
1 (Jan 18)	Understanding the Supply Chain (Ch 1)	
2 (Jan 23)	Supply Chain Performance: Achieving Strategic Fit and Scope (Ch2)	
3 (Jan 25)	Supply Chain Drivers and Metrics (Ch 3)	HW # 1
4 (Jan 30)	Designing Distribution Networks and Applications to Online Sales (Ch 4)	
5 (Feb 1)	Designing Distribution Networks and Applications to Online Sales (Ch 4)	HW # 2
6 (Feb 6)	First Partial Exam	
7 (Feb 8)	Network Design in the Supply Chain (Ch 5)	
8 (Feb 13)	Network Design in the Supply Chain (Ch 5)	
9 (Feb 15)	Network Design in the Supply Chain (Ch 5)	HW # 3
10 (Feb 20)	Designing Global Supply Chain Networks (Ch 6)	
11 (Feb 22)	Designing Global Supply Chain Networks (Ch 6)	
12 (Feb 27)	Designing Global Supply Chain Networks (Ch 6)	HW # 4
13 (Mar 1)	Sales and Operations Planning: Planning Supply and Demand in a Supply Chain (Ch 9)	
14 (Mar 6)	Sales and Operations Planning: Planning Supply and Demand in a Supply Chain (Ch 9)	
15 (Mar 8)	Sales and Operations Planning: Planning Supply and Demand in a Supply Chain (Ch 9)	HW # 5
Spring Break March 13th –March 17th		
16 (Mar 20)	Second Partial Exam	
17 (Mar 22)	Coordination in a Supply Chain (Ch 10)	
18 (Mar 27)	Coordination in a Supply Chain (Ch 10)	HW # 6
19 (Mar 29)	Transportation in a Supply Chain (Ch 14)	
20 (Apr 3)	Transportation in a Supply Chain (Ch 14)	
21 (Apr 5)	Transportation in a Supply Chain (Ch 14)	HW # 7
22 (Apr 10)	Sourcing Decisions in a Supply Chain (Ch 15)	
23 (Apr 12)	Sourcing Decisions in a Supply Chain (Ch 15)	HW # 8
24 (Apr 17)	Third Partial Exam	
25 (Apr 19)	Pricing and Revenue Management in a Supply Chain (Ch 16)	
26 (Apr 24)	Pricing and Revenue Management in a Supply Chain (Ch 16)	
27 (Apr 26)	Pricing and Revenue Management in a Supply Chain (Ch 16)	HW # 9
28 (May 1)	Sustainability and the Supply Chain (Ch 18)	
29 (May 3)	Sustainability and the Supply Chain (Ch 18)	HW # 10
(May 10)	Final Examination (Comprehensive) 10:00 am-12:45 pm	