Models for Supply Chain Management
ESI 6323 Section 1B35
Academic Term: Spring 2017

Instructor:
Nahid Jafari
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Office location: 450 Weil Hall
Office Hours: Tuesday 4:00 – 5:00 pm, or by appointment

Teaching Assistant: <u>N/A</u>

Class Meeting Time/Location: Tuesday | Period 8 (3:00 PM - 3:50 PM), Thursday | Period 8 - 9 (3:00 PM - 4:55 PM), CSE E107

Course Description (3 Credits): This course covers the essential elements of Supply Chain Management, which consist of controlling and coordinating activities such as order processing, purchasing, material storage and handling, production scheduling, packaging, transportation and setting customer service standards. We will learn how these activities are successfully modeled, planned, and controlled in manufacturing and service industries. The decisions and strategies regarding transport and inventory, which are the most important parts of Business Logistics for a firm, are highlighted. During the course, we will discuss many case studies of manufacturing and service firms in the US and abroad with a focus on their supply chain activities.

Course Pre-Requisites: prior course work in linear programming, probability, and stochastic processes.

Required Textbook
- Title: Supply Chain Management: Strategy, Planning, and Operations
- Author: Chopra and P. Meindl
- Pearson, 5th (2013) or 6th (2016) edition

Attendance Policy
Attendance is very strongly encouraged - you are responsible for the announcements made in class. Students are expected to know the material covered in the prerequisite courses. When necessary, they are expected to relearn material from these courses on their own.

Exam Policy
You are expected to be present without exception and to plan any travel around these dates accordingly. Medical emergencies are of course excluded if accompanied by a doctor's note. A note indicating that you were seen at the health center the day of the exam is not sufficient documentation of a medically excused absence from an exam. The note must say that you were medically unable to take the exam.

If you fail to take the exam on the assigned day and do not have a valid excuse, there will be no make-up exam and you will be given a zero (0) on the exam. Employment interviews, employer events, weddings, vacations, etc. are not excused absences.

Course Schedule

Week	Topic	Task
1	Introduction	
1, 2	Chapter 1. Understanding the Supply Chain	
3	Chapter 2. Supply Chain Performance: Achieving Strategic Fit and Scope	
4	Chapter 3. Supply Chain Drivers and Metrics	
5	Chapter 4. Designing Distribution Networks and Applications to Online Sales	
5	Case Study/research paper: Identifying teams and proposing the subject*	Proposal
6	Chapter 5. Network Design in the Supply Chain	
7	Chapter 6. Designing Global Supply Chain Networks	
8	Chapter 7. Demand Forecasting in a Supply Chain	Mid-term
9	Chapter 8. Aggregate Planning in a Supply Chain	
10	Chapter 9. Sales and Operations Planning: Planning Supply and Demand in a Supply Chain	
11	Chapter 10. Coordination in a Supply Chain	Homework Due
11,12	Chapter 11. Managing Economies of Scale in a Supply Chain: Cycle Inventory	
13	Chapter 12. Managing Uncertainty in a Supply Chain: Safety Inventory	
14	Chapter 13. Determining the Optimal Level of Product Availability	
14, 15	Chapter 14. Transportation in a Supply Chain,	
15	Case Study/research paper presentation	presentation
16	Date: 4/25/17	Final exam

Case Study Assignments or paper reading: Each student will be required to participate in a group case study analysis, where each group orally presents a case study report from a selected list of case studies. The case study reports will be presented in the last class in teams of 4 – 5 members. No more than two teams choose the same case study. EDGE students will work solely on the case study or the paper reading.

Presentations: Students are expected to present and discuss certain research papers as assigned for the class in 20-25 minutes. All members of a team can take part of the presentation. The presentations should include
  ▪ Definition of the problem,
  ▪ Summary of related works,
  ▪ Detailed analysis of the model/approach presented in the paper,

- Summary and Critique of the results,
- Suggestions for future research and contribution.

EDGE students will write a report instead of presentation.

Evaluation of Grades
Your performance in the course will be evaluated based on your homework and two exams, the case study report, as follows:
Homework: **10%,**
Case study assignment or paper reading: **30%,**
Mid-term exam: **30%,**
Final exam: **30%.**
Each exam is not cumulative.

Tentative mid-term exam date: Thursday 2-23-2017 (in class). EDGE students will take the exams according to the standard procedure: the exam will be sent to your proctors on the exam date. More information on EDGE exams will be posted.

Exam Grading Appeals: every effort will be made to ensure that grading is as objective and fair as possible. If you believe that there is an error in the grading, please submit, in writing, an appeal within one week of your exam being returned. However, please be advised that if you submit such an appeal, the entire exam will be regraded to ensure that all parts are properly graded. As such, your grade on the exam could increase or decrease based on the secondary grading.

Grading Scale

Percent	Grade	Grade Points
90.0 - 100.0	A	4.00
87.0 - 89.9	A-	3.67
84.0 - 86.9	B+	3.33
81.0 – 83.9	B	3.00
78.0 - 80.9	B-	2.67
75.0 - 79.9	C+	2.33
72.0 – 74.9	C	2.00
69.0 - 71.9	C-	1.67
66.0 - 68.9	D+	1.33
63.0 - 65.9	D	1.00
60.0 - 62.9	D-	0.67
0 - 59.9	E	0.00

More information on UF grading policy may be found at:
http://gradcatalog.ufl.edu/content.php?catoid=10&navoid=2020#grades

Students Requiring Accommodations
Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, https://www.dso.ufl.edu/drc) by providing appropriate

documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Course Evaluation
Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at https://evaluations.ufl.edu/evals. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

University Honesty Policy
UF students are bound by The Honor Pledge which states, "We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code (https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Software Use
All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy
There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html

Campus Resources:

Health and Wellness

> **U Matter, We Care:**
> If you or a friend is in distress, please contact umatter@ufl.edu or 352 392-1575 so that a team member can reach out to the student.
>
> **Counseling and Wellness Center:** http://www.counseling.ufl.edu/cwc, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.
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> **Sexual Assault Recovery Services (SARS)**

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or http://www.police.ufl.edu/.

E-learning technical suppor*t*, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. https://lss.at.ufl.edu/help.shtml.

Career Resource Center, Reitz Union, 392-1601. Career assistance and counseling. https://www.crc.ufl.edu/.

Library Support, http://cms.uflib.ufl.edu/ask. Various ways to receive assistance with respect to using the libraries or finding resources.

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring. https://teachingcenter.ufl.edu/.

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers. https://writing.ufl.edu/writing-studio/.

Student Complaints Campus*:* https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.

On-Line Students Complaints*:* http://www.distance.ufl.edu/student-complaint-process.