
OM 481: Supply Chain Management Fall Quarter 2009

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Office Hours: M, W 2:00-3:00PM
And by appointment.

Office Hours: T, TH 2:00-3:00PM
And by appointment.

Class Hours: M, W 10:00AM-11:45AM
111 Lindner Hall

Prerequisites: OM 385
This prerequisite IS required.

Textbook: Chopra and Meindl, *Supply Chain Management: Strategy, Planning and Operations*, 3rd Edition, Prentice Hall, 2007.

Web Page: The course will utilize the Blackboard Web Page system, which can be accessed at <http://blackboard.uc.edu>
Email will be the primary means of my contacting you outside of class. Please make sure that Blackboard contains your current email address and that you check your email periodically.
Blackboard will also be used for downloading class notes. I will post the partial notes (you will have to fill in some from lecture) for a given class on Blackboard under the *Course Documents* link. If you wish to have these partial notes during lecture, **it is your responsibility to download these notes, print them out from Blackboard and bring to class.** Notes will be in the form of PowerPoint slides. I suggest that you print them out as 'Handouts' either 2 or 4 per page. This will make lectures much more effective and easier to follow.

Grading Policy:	Homework	20%
	Midterm Exam	25%
	Final Exam	25%
	Supply Chain Game	20%
	Class Participation	10%

Questions and/or problems with grading must be *submitted in writing* (for both homework and exams) no later than *1 week* after the assignment has been handed back to the student.

Class participation consists of your attending class, arriving on-time and active participation during lectures.

Homework Policy: Collaboration during the conceptualization and formulation process of homework assignments is allowed and encouraged. However, all homework assignments must be written up individually. Each student is required to turn in his or her own homework solutions. There will be four homework assignments during the quarter. Your completed homework assignment must include a **COVER PAGE** that includes only your name and course title.

*Note: Homework is a very important part of this class. Homework assignments are time consuming and challenging. **You should not wait until the last minute to attempt the homework!** Plan on asking questions about the homework during office hours or before/after class.*

Homework is due at the BEGINNING OF CLASS. Late homework will not be accepted without prior arrangements!

Supply Chain Game: We will be using “The Supply Chain Game” developed by Responsive Learning Technologies in conjunction with professors from the Kellogg School at Northwestern and the University of Chicago. The Supply Chain game is a web-based, discrete-event simulator that allows you to apply many of the concepts and tools learned in this class. There are two assignments for The Supply Chain Game which you will complete in **self-selected groups of four-to-five students**. Each simulation will run for one week. At the end of the week your group will turn in a write-up summarizing the decision you made and provide a critical assessment of your performance (write-up is optional for Part I, see below). A portion of your score will also depend on your overall performance in comparison to the other groups in our class (yes, this is a competition). The groups with the highest cash amounts at the end of the game will receive the highest scores for the competition component.

Part I of the Supply Chain Game will run from the **evening of Thursday, October 8** through **Thursday, October 15**. The **write-up** for Part I is due on **Monday, October 19**. Note that Part I is designed as an introduction to the more challenging Part II of the Supply Chain Game. Thus, the write-up for Part I will be **OPTIONAL**. However, you have the **ability to earn up to 15 bonus points** (applied to your Part II assignment) from competing in Part I and turning in a short write-up (**limited to two pages plus an appendix for Part I**). Ten points will be assigned based on your write-up and five points based on your final cash position.

Part II of the Supply Chain Game will run from the **evening of Sunday, November 15** through **evening of Sunday, November 22**. The **write-up** for Part II (**REQUIRED**) is due **Wednesday, November 25** and is **limited to four pages plus an appendix**.

There is a \$24 charge per person to access the game. This is payable through the Responsive Learning Technologies website by credit card. More details will be provided via Blackboard website.

Academic Dishonesty:

The University Rules, including the Student Code of Conduct, and other documented policies of the department, college, and university related to academic integrity will be enforced. Any violation of these regulations, including acts of plagiarism or cheating, will be dealt with on an individual basis according to the severity of the misconduct.

Special Needs Policy:

If you have any special needs related to your participation in this course, including identified visual impairment, hearing impairment, physical impairment, communication disorder, and/or specific learning disability that may influence your performance in this course, you should meet with the instructor to arrange for reasonable provisions to ensure an equitable opportunity to meet all the requirements of this course. At the discretion of the instructor, some accommodations may require prior approval by Disability Services.

Computer Usage:

The use of a computer, specifically Microsoft Excel and internet access, will be required for this course. You are encouraged to make sure that you have access to these, either through the university or your own PC, and to familiarize yourself with the basics of Excel as soon as possible. You will have to access The Supply Chain Game through your internet browser. Microsoft Internet Explorer is recommended, but I have had no problems using Firefox.

Cell Phones/Pagers: All cell phones and pagers must be turned off or put on vibrate during class. If your phone or pager goes off during class, you will be asked to leave. ***Due to the proliferation of integrated camera-cell-phones and the use of text messaging, cell phones must be put away during exams.***

Topics Covered:

- Forecasting
- Supply Chain Design
- Inventory Models
- Coordination in the Supply Chain
- Facility Location Models
- Transportation and Logistics
- Sustainable Supply Chain Operations
- Reverse Logistics

Important Dates:**Thursday, October 8, 6:00PM**

Supply Chain Game Part I Begins

Monday, October 12 and Wednesday, October 14

No Class

Thursday, October 15, ~6:00PM

Supply Chain Game Part I Ends

Monday, November 2

Midterm Exam

Tuesday, November 10, 6:00-8:30PM in 608 LindnerBeer Game Supply Chain Simulation¹**Wednesday, November 11**

No Class (Veterans Day)

Sunday, November 15, 6:00PM

Supply Chain Game Part II Begins

Sunday, November 22, ~6:00PM

Supply Chain Game Part II Ends

Wednesday, December 9, 8:00–10:00AM

Final Exam

Course Objectives: After completing this course, students should be able to:

- Explain the effect of a supply chain on business operations
- Understand the relation between product type and supply chain strategy
- Express familiarity with different forecasting tools and understand their uses
- Choose an appropriate inventory model for a given situation
- Apply several different inventory models including those for use in deterministic and stochastic scenarios
- Explain the difference between cycle stock and safety stock
- Be able to formulate basic supply network distribution models
- Understand the importance of transportation and logistics in the supply chain and be familiar with ways in which transportation problems are modeled
- Identify the differences between push and pull supply chains
- Use Excel to solve several different supply chain operational problems

¹ If you are unable to attend this exercise, you will need to get prior approval from the instructor and will be required to complete an alternate assignment to receive credit for this meeting.