

## ESI 6323 - Supply Chain Management

**Time:** Tuesday Period 8 (3.00pm-3.50pm), Thursday Periods 8-9 (3.00pm-4.55pm)

**Location:** CSE E122

**Instructor:** Dr. Chrysafis (Chrys) Vogiatzis — [chvogiat@ufl.edu](mailto:chvogiat@ufl.edu)

**Office:** Weil 202

**Office Hours:** Tuesday 4.00pm-5.00pm, Friday 10am-11am; or by appointment

**TA:** Lei Fan — [fanlei@ufl.edu](mailto:fanlei@ufl.edu)

**TA Office Hours:** Monday 3pm-3.50pm, Thursday 10.30am-11.20am; or by appointment

1. **DESCRIPTION:** 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.
2. **Textbook:** S. Chopra and P. Meindl, *Supply Chain Management: Strategy, Planning, and Operations*, 5<sup>th</sup> edition, 2013, Prentice Hall



3. **Course Assessment:** Grading will be based on tests, homework assignments, and a case study report.

- **Exams:** There will be two closed book exams during the Thursday classes. Students will be allowed one double-sided notes sheet for each of the tests. Exam dates will be announced shortly, but can be expected to be the last Thursday before Spring Break in February, and one of the two last Thursdays before reading days in April.
- **Homework Assignments:** We will have a series of 6-8 homework assignments from the problems in the textbook.
- **Case Study Assignments:** 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 3 – 5 members. Details will be announced shortly.
- **Grading:** Tests will count for 30% each; Homework assignments will total 15%, while the case study report will count for 25%.

In order to graduate, graduate students must have an overall GPA and an upper-division GPA of 3.0 or better (B or better). Note: a B- average is equivalent to a GPA of 2.67, and therefore, it does not satisfy this graduation requirement. For more information on grades and grading policies, please visit:

<http://gradschool.ufl.edu/catalog/current-catalog/catalog-general-regulations.html#grades>

Grade	Range
A	92-100
A-	90-92
B+	88-90
B	83-88
B-	80-82
C+	78-80
C	72-78
C-	70-72
D+	67-70
D	60-67

#### 4. Topics:

##### **Part I. Building a Strategic Framework to Analyze Supply Chains (Weeks 1-3)**

- Chapter 1. Understanding the Supply Chain
- Chapter 2. Supply Chain Performance: Achieving Strategic Fit and Scope
- Chapter 3. Supply Chain Drivers and Metrics

##### **Part II. Designing the Supply Chain Network (Weeks 4-6)**

- Chapter 4. Designing Distribution Networks and Applications to Online Sales
- Chapter 5. Network Design in the Supply Chain
- Chapter 6. Designing Global Supply Chain Networks

##### **Part III. Planning Demand and Supply in a Supply Chain (Weeks 7-9)**

- Chapter 7. Demand Forecasting in a Supply Chain
- Chapter 8. Aggregate Planning in a Supply Chain
- Chapter 9. Sales and Operations Planning: Planning Supply and Demand in a Supply Chain
- Chapter 10. Coordination in a Supply Chain

##### **Part IV. Planning and Managing Inventories in a Supply Chain (Weeks 10-11)**

- Chapter 11. Managing Economies of Scale in a Supply Chain: Cycle Inventory
- Chapter 12. Managing Uncertainty in a Supply Chain: Safety Inventory
- Chapter 13. Determining the Optimal Level of Product Availability

##### **Part V. Designing and Planning Transportation Networks (Week 12)**

- Chapter 14. Transportation in a Supply Chain

##### **Part VI. Managing Cross-Functional Drivers in a Supply Chain (Weeks 12-14)**

- Chapter 15. Sourcing Decisions in a Supply Chain
- Chapter 16. Pricing and Revenue Management in a Supply Chain
- Chapter 17. Information Technology in a Supply Chain
- Chapter 18. Sustainability and the Supply Chain

#### 5. Course Objectives:

- Understanding the issues involved in the growing area of supply chain management.
- Developing an understanding of the tradeoffs inherent in supply chain management and a facility with quantitative analysis tools required to address these tradeoffs.

- Developing familiarity with the techniques currently used throughout industry in addressing the many complex supply chain problems.

6. **Make-up Exam Policy:** In general, there will be no makeup exams given. If you must miss an exam for any reason, the grade of the next exam will also count for the missed one. Note that you need to let me know of any missed exam before the date.
7. **Honesty Policy:** All students admitted to the University of Florida have signed a statement of academic honesty committing themselves to be honest in all academic work and understanding that failure to comply with this commitment will result in disciplinary action. This statement is a reminder to uphold your obligation as a UF student and to be honest in all work submitted and exams taken in this course and all others.
8. **Accommodation for Students with Disabilities:** Students Requesting classroom accommodation must first register with the Dean of Students Office. That office will provide the student with documentation that he/she must provide to the course instructor when requesting accommodation.
9. **UF Counseling Services:** Resources are available on-campus for students having personal problems or lacking clear career and academic goals. The resources include:
  - UF Counseling & Wellness Center, 3190 Radio Rd, 392-1575, psychological and psychiatric services.
  - Career Resource Center, Reitz Union, 392-1601, career and job search services.
10. **Software Use:** All faculty, staff and student 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.
11. **Instructor Evaluation:** Instructor evaluations are of the utmost importance for both the instructor and future students of the course. Please complete your evaluation forms online during the open period. Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. 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/>.