



## Syllabus: 3320, Fall 2016

### Introduction to Supply Chain Management

#### About the Instructor



#### Contact information:

Dr. Haitao Li

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Virtual Office Hours: Mon 1 to 2pm

In-person Office Hours: Wed 1 to 2pm

Or Email (My response to emails during weekends may be slower.)

#### Welcome

Welcome to our online Introduction to Supply Chain and Operations Management! Supply Chain is an exciting and growing discipline serving as the key business function in various industries ranging from manufacturing, service, and health care among others. Efficient, responsive and cost-effective supply chain is crucial for a firm's success in today's volatile economy and competitive market environment. Through this class, you will understand a comprehensive range of topics and concepts in supply chains, and enjoy a spectrum of industrial examples and cases to understand the important role and value of supply chains. This class lays foundations of a supply chain professional who will be suitable for the following career/jobs:

- Supply Chain
- Transportation and Logistics
- Purchasing and Procurement
- Operations

#### Instructor Bio

I am an Associate Professor of Logistics and Operations Management, and a Research Fellow of Center for Transportation Studies, at University of Missouri – St. Louis (UMSL). I have my Ph.D. in Operations Management from the University of Mississippi (2005), Master of Arts in Economics also from University of Mississippi (2002), and Bachelor of Engineering in Foreign Trade in Industry with minor in Aeronautical Engineering from Beihang University, China (2000).



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My research interests include optimization modeling, simulation, and algorithm design in the application domains of scheduling, workforce optimization, and supply chain configuration. I worked as a Statistical Analyst at the Naval Personnel Research, Study and Technology (NPRST) in Millington, TN in 2004, and was a Visiting Scholar at the Hewlett-Packard Laboratory (HPL) in Palo Alto, CA in 2005. My past research projects include developing capacity and capability planning (CCP) models for strategic workforce optimization, new models for tactical resource planning (RP) and project portfolio optimization (PPO) at HP; manpower optimization and scheduling of DDX battleship for the U.S. Navy; approximate dynamic programming (ADP) algorithms for solving high-dimensional stochastic resource-constrained project scheduling and its applications in unmanned aerial vehicle (UAV) scheduling for the U.S. Army; dynamic models and solution approaches for resource distribution and scheduling of large-scale construction projects at J.E. Dunn.

I have published in scholarly journals including *European Journal of Operational Research*, *Computers and OR, Interfaces*, *Omega*, *Military Operations Research*, *Journal of Scheduling*, *Annals of Operations Research*, *International Journal of Production Economics*, and *International Journal of Production Research*. I was a recipient of the Young Investigator Award from the US Army Research Office (ARO) in 2010. With one U.S. patent pending and several invention disclosures, I was named 2015 UMSL Inventor of the Year, and won the 2015 Douglas Durand Award for Research Excellence of College of Business Administration.

#### Teaching Philosophy

- *Emphasize the practical relevance and value of a topic as importantly as the topic itself*
- *Emphasize developing and cultivating students' problem solving skills, to bridge the gap between classroom learning and real world application*
- *I leverage my research interests and expertise to introduce the most recent advancement to my classes, to meet the needs and challenges of the today's dynamic and complex business environment,*

#### About this course:

**Required texts:** *Supply Chain and Logistics Management Made Easy*, by Paul Myerson, Pearson, 2015.

#### Time Requirements:

If this course were offered on campus, you'd be in class 2.5 hours/week plus travel time. The online version is no different in terms of expectations for your involvement. This is an active online course that requires 3 hours of your time each week **in addition to** the time it takes you to read the required materials, watch the videos, and complete the assignments. That means that you need to plan to spend a minimum of **6 hours every week** (up to 9-10 hours a week) on activities related to this course. If you are worried about your preparedness, consider taking the [Online Readiness Survey](#) to help decide if an online course is right for you.

#### Technology Requirements:

As a student in an online course, you are expected to have reliable internet access almost every day. If you have computing problems, it is your responsibility to address these or to use campus computing labs. Problems with your computer or other technology issues are not an excuse for delays in meeting expectations and missed deadlines for the course. If you have a problem, [get help in solving it immediately](#). At a minimum, you will need the following software/hardware to participate in this course:

1. Computer with an updated operating system (e.g. Windows, Mac, Linux)



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2. Updated Internet browsers ([Apple Safari](#), [Internet Explorer](#), [Google Chrome](#), [Mozilla Firefox](#))
3. Ability to navigate [MyGateway](#) (Blackboard Learning Management System)
4. Minimum Processor Speed of 1 GHz or higher recommended.
5. DSL or Cable Internet connection or a connection speed no less than [6 Mbps](#).
6. Media player such as [VLC Media Player](#).
7. [Adobe Flash player \(free\)](#)
8. [Adobe Reader or alternative PDF reader \(free\)](#)
9. [Oracle Java plugin \(free\)](#)
10. [Microsoft Silverlight plugin \(free\)](#)
11. A webcam and/or microphone is **highly recommended**.

**Course Description:** This course provides an understanding of fundamental concepts of supply chain management. All functional areas of supply chain management are explored in an integrated view of procurement, manufacturing and operations management, transportation and logistics, inventory and warehousing, demand planning, scheduling, network design, collaboration and performance measurement.

#### Goals of the Course:

- *Understand the important role of supply chains in today's business and economy*
- *Understand a wide scope of functions and concepts in supply chains*
- *Understand and apply conceptual decision-support to supply chain related decision problems*

### How to Succeed in This Course

- *Be a motivated learner*
- *Be a proactive learner*
- *Be a responsible learner*

### Assessment/Grading

#### Grade Composition:

- Class Participation including Video Demos (20%)
- Quiz (15%)
- Case Studies (20%)
- Exam-1 (15%)
- Exam-2 (15%)
- Exam-3 (15%)

#### Grading Scale:

90 – 100: A  
80 – 89: B  
70 – 79: C  
60 – 69: D  
Below 60: F



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#### Course Schedule

Module #/Name	Dates	Lectures	Readings and Demos	Assignments
<b>Module-1 SC Overview</b>	Aug 22 – Sept 4	Chapter 1 Introduction Chapter 2 Understanding the Supply Chain		Quiz-1 Case Study - 1
<b>Module-2 Strategic SC Network Design</b>	Sept 5 – Sept 18	Chapter 15 Facility Location Chapter 16 Facility Layout	<u>Video Demo – 1: Strategic SC Network Design</u>	Quiz-2 Case Study - 2
<b>Exam-1</b>	Sept 19 – Sept 25			
<b>Module-3 Tactical SC Planning</b>	Sept 26 – Oct 9	Chapter 3 Demand Management Chapter 4 Inventory Planning and Control		Quiz-3
<b>Module-4 Operational SC Scheduling</b>	Oct 10 – Oct 23	Chapter 5 Aggregate Planning and Scheduling Chapter 9: Order Fulfillment and Vehicle Routing	<u>Video Demo – 2: Vehicle Routing Optimization</u>	Quiz-4 Case Study - 3
<b>Exam-2</b>	Oct 24 – Oct 30			
<b>Module-5 SC Operations I</b>	Oct 31 – Nov 13	Chapter 6 Procurement Chapter 7 Transportation Systems	<u>Video Demo – 3: Data Visualization in TMS</u> <u>Video Demo – 4: Rate and Lane Optimization in TMS</u>	Quiz-5
<b>Module-6 SC Operations II</b>	Nov 14 – Nov 27	Chapter 8 Warehousing <b>Fall Break</b>		Case Study - 4
<b>Module-7 SC Integration and Collaboration</b>	Nov 28 – Dec 11	Chapter 12 Supply Chain Partners Chapter 13 SC Integration	<u>Video Demo – 5: Information Flow and Sharing in TMS</u>	Quiz-6
<b>Exam-3</b>	Dec 12 – Dec 16			

#### Course Policies

##### Attendance Policies

- *Present* in class for online courses is determined by participation in an “academically related activity,” i.e. submission of an assignment, assessment or discussion forum posting. The last day of attendance is the last day a student is academically participating in the online course.
- Documentation that a student has logged into an online class is not sufficient by itself to demonstrate academic attendance.



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#### Academic Integrity/Plagiarism

- You are responsible for being attentive to and observant of University policies about academic honesty as stated in the University's Campus Policies and Procedures in the [Triton Manual](#) (p. 30)
- Academic dishonesty is a serious offense that may lead to probation, suspension, or [dismissal from the University](#). One form of academic dishonesty is plagiarism – the use of an author's ideas, statements, or approaches without crediting the source. Academic dishonesty also includes such acts as cheating by copying information from another student. **Plagiarism and cheating are not acceptable.**
- Academic dishonesty will be reported to the Office of Academic Affairs for possible action. The instructor will make an academic judgment about the student's grade on that work and in that course. The campus process regarding academic dishonesty is [described in the "Policies" section of the Academic Affairs website](#)
- Plagiarism is the use of another person's words or ideas without crediting that person.
  - Plagiarism and cheating will not be tolerated and may lead to failure on an assignment, in the class, and dismissal from the University, per the [UMSL academic dishonesty policy](#).
  - Students are responsible for being attentive to and observant of campus policies about academic honesty as stated in the [University's Student Conduct Code](#).
  - To avoid accusations of academic dishonesty, please submit all written work to the Turnitin System before finalizing what you submit for evaluation. Check information about The Writing Center @UMSL that is linked to MyGateway Home.

#### Student Resources

##### Access, Disability and Communication

Students who have a health condition or disability, which may require accommodations in order to participate effectively in this course, should contact the **Disability Access Services Office**. Information about your disability is confidential.

- 144 Millennium Student Center (MSC)
- Phone: (314) 516-6554
- [Email](#)
- [Website](#)

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##### Office of International Students and Scholar Services

If you have difficulty communicating in English with the instructor of this course, contact ISS.

- 261 Millennium Student Center (MSC)
- Phone: (314) 516-5229



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- [Email](#)
  - [Website](#)
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#### Student Retention Services

SRS provides comprehensive support and intervention strategies that support your road to graduation!

- 225 Millennium Student Center (MSC)
- Phone: (314) 516-5300
- [Email](#)
- [Website](#)

### Technical Support

#### GOAL Office

The GOAL was created to provide centralized direction and support to online and reentering adult students seeking degree completion at the University of Missouri-St. Louis (UMSL). Whether you are returning to school to complete an undergraduate degree started long ago or you desire to earn a Ph.D., we are here to guide you to completion. The GOAL staff will support and guide you, providing access to valuable resources. You may choose to continue your education in an online environment, traditional courses or blended opportunities. We are here to see you achieve academic success.

- 306 Social Sciences and Business Building (SSB) - Tower
- Phone: (314) 516-4211
- [Email](#)
- [Website](#)

#### My Gateway (Blackboard)

If you have problems logging into your online course, or an issue within the course site, please contact the **Technology Support Center**:

- Phone: (314) 516-6034
- [Email](#)
- [Website](#)

If you are having difficulty with a technology tool in MyGateway (wiki, voicethread, Kaltura, etc.) consider visiting the **Online Course Orientation** in your [MyGateway course list](#). The orientation has overviews of each tool and tutorials on how to use them.

#### Blackboard Collaborate

If you have any questions regarding Collaborate, contact the Faculty Resource Center:

- Phone: (314) 516-6704



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- [Email](#)
- [Website](#)

Outside normal office hours, you may also contact Collaborate for 24/7 assistance:

- Phone: (877) 382-2293
- [Chat](#)

#### VoiceThread

- [Online Contact Form](#)
  - [Website](#)
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## Academic Support

#### The Online Writing Center

At the OWC MyGateway site, students can send their papers to our tutors, who will read them and send them back with suggestions. Students can also access Turnitin, which identifies quoted material in their essays.

- 222 Social Sciences and Business Building (SSB)
- [Website](#)
- Visit the OWC page on MyGateway to submit drafts online.
- The OWC usually responds within 48 hours. Please allow ample time.

#### Math Academic Center (Math Lab)

The Math Academic Center offers free individual assistance on a walk-in basis to students needing help with any mathematics from basic math through calculus or any course involving mathematical skills.

- 222 Social Sciences and Business Building (SSB)
- [Website](#)

#### NetTutor

Online tutoring in many subjects is now available through NetTutor. In your courses on MyGateway, click on Tools and select NetTutor® to log in. You can access NetTutor from the [MyGateway homepage](#).

#### GOAL Mentors

This course may be assigned a GOAL Mentor who will be able to assist with technology issues and answer non-content questions regarding online courses.

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