THE UNIVERSITY OF TEXAS AT DALLAS
Naveen Jindal School of Management

COURSE: OPRE 6370.0W1
INSTRUCTOR: Prof. Andrew Frazelle
TERM: Spring 2025

ONLINE/BLENDED COURSE SYLLABUS: GLOBAL LOGISTICS AND TRANSPORTATION

Contact Information

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Course Details

COURSE DESCRIPTION. This course focuses on the design and analysis of global logistics, transportation, and supply chain systems including the components such as suppliers, warehouse, packaging and material handling, customers, production, inventory, orders, transportation, and information systems. The course discusses the interactions between these components; models and techniques for the analysis of logistics systems, as well as the strategic financial outcomes influenced by the logistics decisions. In addition, the course incorporates various applications of optimization and data analytics for managing the worldwide distribution of products and services, as well as the growing role of artificial intelligence (AI) in global logistics.

PREREQUISITE. OPRE 6302.

LEARNING OUTCOMES. Students will:

- Understand the interdependent parts of a logistics system
- Quantitatively and qualitatively analyze specific logistics problems and arrive at solutions
- Develop a perspective on the role of logistics within an organization (e.g., supporting financial performance, customer service, etc.) and how to align the company's logistics operations with that role and with the goals of the organization

RECOMMENDED TEXTBOOKS. The recommended textbooks for the course are:

- Goetschalckx, Marc. Supply Chain Engineering. Springer, New York. ISBN-13: 978-1-4419-6511-0
- Bartholdi III, John J., and Hackman, Steven T. Warehouse & Distribution Science. PDF available online.

TEST SCHEDULE. There will be three tests. **TESTS WILL BE PROCTORED AND TAKEN IN-PERSON AT THE UTD TESTING CENTER. HONORLOCK WILL *NOT* BE ALLOWED FOR THIS COURSE.** Sorry for the all-caps, but this has been a point of confusion in the past and I want this to be super clear from the start: all tests will be in-person and proctored.[1] You must register for a time slot at least **48 HOURS AHEAD**. If you are not in Dallas, you will need to arrange to take the test at a testing center local to you, which means making arrangements at least **3 FULL WEEKS IN ADVANCE** (this is the testing center's requirement and they are extremely strict about it). See distance learning guidance at https://ets.utdallas.edu/testing-center/distance-learning/, under the Testing Options heading). If you fail to register in time, there will be a **30-POINT PENALTY** to your test grade.

[1] Note: When the testing center's website mentions Honorlock for fully online courses, it is not saying that all online courses use Honorlock. Rather, it means ONLY online courses are *allowed* to use Honorlock. To be crystal clear, this class does NOT offer Honorlock and all tests will be taken in-person at the testing center.

The test schedule is as follows:

- Test 1: Week of 2/17
- Test 2: Week of 4/1
- Test 3: Week of 4/29

JSOM VIRTUAL LEARNING LAUNCHPAD. To access your course content, complete the JSOM Virtual Learning Launchpad (VLL) in eLearning. Follow the VLL student video instructions provided. The certificate must be completed each academic year and uploaded each semester for all synchronous / asynchronous courses. The Launchpad will be available once your course starts. Please see the Academic Calendar for the exact date.

GRADING. Your course grade will be based on the three tests and five homework assignments.

HOMEWORK. Homework assignments will be primarily quantitative, using Microsoft Excel and/or R (yes, we will be using R in this class: we will learn it as we go, and it's really useful!). Homework assignments will be submitted through eLearning, and you will need to submit any supporting files (e.g., Excel workbooks or R scripts). Detailed instruction files will be provided with each assignment. There will also be an optional sixth homework assignment that, if completed and better than your lowest homework grade, will replace that lowest grade.

TESTS. For tests, you will be allowed to bring one HANDWRITTEN 8.5" x 11" cheat sheet (can be double-sided). The tests will ask both qualitative and quantitative questions and will be administered at the UTD Testing Center. There will be a mix of multiple choice, true/false, and fill-in-the-blank questions for the qualitative portion, and some quantitative questions that will ask you to apply the tools and algorithms taught in class.

Final grades will be weighted according to:

Homework:	16%
Test 1:	28%
Test 2:	28%
Test 3:	28%

The grading scale is:

A:	93	≤	Grade	≤	100
A-:	90	≤	Grade	≤	93
B+:	87	≤	Grade	<	90
B:	83	≤	Grade	<	87
B-:	80	≤	Grade	<	83
C+:	77	≤	Grade	<	80
C:	70	≤	Grade	<	77
F:	0	≤	Grade	<	70

Depending on the performance of the class, it is possible that this scale may be adjusted, but such an adjustment will only improve your grade, not make it worse.

CLASS PARTICIPATION. Regular class participation is expected regardless of course modality.

Students who fail to participate in class regularly are inviting scholastic difficulty. Class participation is documented by faculty. Successful participation is defined as consistently adhering to University requirements, as presented in this syllabus. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

CLASS RECORDINGS. The instructor may record meetings of this course. Any recordings will be available to all students registered for this class as they are intended to supplement the classroom experience. Students are expected to follow appropriate University policies and maintain the security of passwords used to access recorded lectures. Unless the Office of Student AccessAbility has approved the student to record the instruction, students are expressly prohibited from recording any part of this course. Recordings may not be published, reproduced, or shared with those not in the class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. If the instructor or a UTD school/department/office plans any other uses for the recordings, consent of the students identifiable in the recordings is required prior to such use unless an exception is allowed by law. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

CLASS MATERIALS. The Instructor may provide class materials that will be made available to all students registered for this class as they are intended to supplement the classroom experience. These materials may be downloaded during the course, however, these materials are for registered students' use only. Classroom materials may not be reproduced or shared with those not in class, or uploaded to other online environments except to implement an approved Office of Student AccessAbility accommodation. Failure to comply with these University requirements is a violation of the Student Code of Conduct.

Course Policies

LATE WORK. No late work will be accepted.

MAKEUP TESTS. No makeup tests will be given except with proof of a medical emergency.

TECHNICAL REQUIREMENTS. In addition to a confident level of computer and Internet literacy, certain minimum technical requirements must be met to enable a successful learning experience. Please review the important technical requirements on the Getting Started with eLearning webpage.

COURSE ACCESS AND NAVIGATION. This course can be accessed using your UT Dallas NetID account on the eLearning website. Please see the course access and navigation section of the Getting Started with eLearning webpage for more information. To become familiar with the eLearning tool, please see the Student eLearning Tutorials webpage.

UT Dallas provides eLearning technical support 24 hours a day, 7 days a week. The eLearning Support Center includes a toll-free telephone number for immediate assistance (1-866-588-3192), email request service, and an online chat service.

COMMUNICATION. This course utilizes online tools for interaction and communication. Some external communication tools such as regular email and a web conferencing tool may also be used during the semester. For more details, please visit the Student eLearning Tutorials webpage for video demonstrations on eLearning tools.

Student emails and discussion board messages will be answered within 3 working days under normal circumstances.

DISTANCE LEARNING STUDENT RESOURCES. Online students have access to resources including the McDermott Library, Academic Advising, The Office of Student AccessAbility, and many others. Please see the eLearning Current Students webpage for more information.

SERVER UNAVAILABILITY OR OTHER TECHNICAL DIFFICULTIES. The University is committed to providing a reliable learning management system to all users. However, in the event of any unexpected server outage or any unusual technical difficulty which prevents students from completing a time sensitive assessment activity, the instructor will provide an appropriate accommodation based on the situation. Students should immediately report any problems to the instructor and also contact the online eLearning Help Desk. The instructor and the eLearning Help Desk will work with the student to resolve any issues at the earliest possible time.

COMET CREED. This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:
"*As a Comet, I pledge honesty, integrity, and service in all that I do*."

UT DALLAS SYLLABUS POLICIES AND PROCEDURES. The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus: UT Dallas Syllabus Policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the professor

Tentative Course Schedule

Week	Week of	Topic	Assignment	Due Date
		Module 1:		
1	1/20	Unit 1: Origin & Overview of Global Logistics		
2	1/27	Unit 2: Supply Chain Management		
3	2/3	Unit 3: Financial Logistics	HW 1	2/9
4	2/10	Unit 4: Logistics Data and Data Analysis	HW 2	2/16
5	2/17	**TEST 1: Foundations of Logistics** (Covers Units 1-4, HWs 1-2)		
		Module 2:		
6	2/24	Unit 5: Transportation Systems	HW 3	3/2
7	3/3	Unit 6: Facility Location		
		Module 3:		
8	3/10	Unit 7: Warehouse Mgt: The Forward Pick Area I		
9	3/17	**SPRING BREAK**		
10	3/24	Unit 7: Warehouse Mgt: The Forward Pick Area II and III		
11	3/31	Unit 8: Warehouse Automation	HW 4	4/6
12	4/7	**TEST 2: Transportation and Warehouse Mgt.** (Covers Units 5-8, HWs 3-4)		
		Module 4:		
13	4/14	Unit 9: Inventory Metrics and Principles Unit 10: Single-Order Inventory Models		
14	4/21	Unit 11: Multiple-Order Inventory Models	HW 5	4/27
15	4/28	Unit 12: Forecasting	HW 6 (Optional)	5/4
16	5/5	**TEST 3: Inventory Mgt. and Forecasting** (Covers Units 9-12, HWs 5-6)		