

Course Syllabus – Spring 2022

OPRE 3310 – Operations Management



Course	Operations Management
Course Title	OPRE 3310.002
Professor	Vince Mozik
Term	Spring 2022; 1/21/22 – 5/13/22
Location & Time	JSOM 1.102; Friday 4 pm – 6:45 pm

Pre-requisites, Co-requisites, and other restrictions:

MATH 1325 or MATH 2413 or MATH 2417. Prerequisites: SAT 3360 or OPRE 3360.

Course Description:

This course discusses applications of operations research methods to production problems and processes at companies with emphasis on forecasting, production planning, supply chain, and production control techniques. Emphasis will be focused on best practices of operations and how they are a vital part to a company's overall strategies to advance a firm's competitive advantage and financial objectives.

Learning Objectives:

- Understand the role operations management plays in business processes and economies
- Qualitatively and quantitatively analyze and interpret operations information
- Identify and solve typical operations management problems
- Document and report operations performance for continuous improvement opportunities
- Recognize and address ethical issues that arise when managing operations
- Understand the role supply chain management plays in successful operations

Required Texts & Materials:

Operations Management 14th Edition by William J. Stevenson is ISBN 978-1260718423, McGraw Hill, NJ.

About the Instructor:

Vince Mozik has nearly 20 years of Fortune 500 supply chain experience across 5 industries. Adjunct Professor at The University of Texas at Dallas. Program Manager at Boeing Global Services. VP of Education and Certified ASCM(APICS) Master Instructor for the North Texas Chapter. Past experiences include a variety of supply chain positions at Parker Hannifin, American Axle, Jabil Circuit, General Electric, Mitsubishi Motors, and Marathon Oil. MBA from the University of Detroit Mercy and a BBA from Western Michigan University in Integrated Supply Matrix Management. Notable certifications include: CPIM, CSCP, SCOR-P, PMP, and LSSGB.

Weekly Schedule

WEEK & DATE	TOPIC/LECTURE	READING	ASSESSMENT / ACTIVITY	DUE DATE @ 4 pm CT
WK 1; Jan. 21 st	Introduction to Operations Management	Chapter 1	Intent and class overview	-
WK 2; Jan. 28 th	Competitiveness, Strategy, and Productivity	Chapter 2	4DX	DB #1
Week 3; Feb. 4 th	No Class UTD Campus Closed (snow)	-	-	HW #1
WK 4; Feb. 11 th	Forecasting	Chapter 3	Demand Planning Industry Trends	-
WK 5; Feb. 18 th	Product and Service Design; Strategic Capacity Planning for Products and Services	Chapter 4 and 5	The Startup Way Capacity Analysis	-
WK 6; Feb. 25 th	Process Selection and Facility Layout, Work Design and Measurement, Location Planning and Analysis	Chapter 6, 7, and 8	Process Flow Design	-
WK 7; Mar. 4 th	Management of Quality, Quality Control	Chapter 9 and 10	Six Sigma	HW #2
WK 8; Mar. 11 th	Midterm Exam	-	-	-
WK 9; Mar. 18 th	No Class Spring Break	-	-	-
WK 10; Mar. 25 th	Aggregate Planning and Master Scheduling	Chapter 11	S&OP ASCM/APICS Certifications	DB #2
WK 11; April 1 st	Inventory Management, MRP and ERP	Chapter 12 and 13	PFEP Inventory Analysis	HW #3
WK 12; April 8 th	JIT and Lean Operations	Chapter 14	Toyota and SMED Case Study	-
WK 13; April 15 th	No Class - Inventory Management Assessment	-	-	-
WK 14; April 22 nd	Supply Chain Management	Chapter 15	Agile Case Study SCOR	DB #3
WK 15; April 29 th	Scheduling and Project Management	Chapter 16 and 17	PMI Certifications	HW #4
WK 16; May 6 th	No Class – Reading Day	-	-	-
WK 17; May 13 th	Final Exam	-	-	-

Course Policies

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 .
Classroom Conduct Requirements Related to Public Health Measures	UT Dallas will follow the public health and safety guidelines put forth by the Centers for Disease Control and Prevention (CDC), the Texas Department of State Health Services (DSHS), and local public health agencies that are in effect at that time during the Spring 2022 semester.
Class Attendance	Class attendance is not required but will have an impact on a student final score given the participation category in the grading criteria
Class Participation	Regular class participation is expected. Students who fail to participate in class regularly are inviting scholastic difficulty. A portion of the grade for this course is directly tied to your participation in this class. It also includes engaging in group or other activities during class that solicit your feedback on homework assignments, readings, or materials covered in the lectures (and/or labs). 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	<p>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. Failure to comply with these University requirements is a violation of the Student Code of Conduct.</p> <p>The instructor may record meetings of this course. These recordings will be made available to all students registered for this class if the intent is to supplement the classroom experience. 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.</p>
Grading (credit) Criteria	<ul style="list-style-type: none"> • Homework = 35% • Midterm = 20% • Inventory Assessment = 15% • Final = 20% • Class attendance and participation = 5% • Discussion boards = 5%
Extra Credit	Extra credit will be provided for students who attend the following supply chain information sessions or participate in the out of the box case competition. To receive credit, a summary report must be submitted on their experience at the event and their learning takeaways or proof of

	<p>submission into the case competition. Only one extra credit activity is allowed per student regarding the 2 options below.</p> <p>Spring 2022 In-Person SCM Info Sessions:</p> <ul style="list-style-type: none"> Thursday, Feb. 10, 2022, 1 pm – 2 pm JSOM 13.501 Monday, March 28, 2022, 2 pm – 2 pm JSOM 13.501 Thursday, April 7, 2022, 12 pm – 1 pm JSOM 13.501 <p>Out of the Box Case Competition:</p> <ul style="list-style-type: none"> Online registration opens, Feb 11, 2022 @ 10 am <p>For more information email: bscm@utdallas.edu</p>
Make-up Exams	To be considered on specific circumstances
Extra Credit	Potential opportunities to be provided in the second half of the semester
Late Work	20% reduction if submitted within 24 hours of due date
Special Assignments	N/A
Classroom Citizenship	Enragement and courtesy participation are highly welcome
Comet Creed	<p><i>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:</i></p> <p><i>“As a Comet, I pledge honesty, integrity, and service in all that I do.”</i></p>
Academic Support Resources	<p><i>The information contained in the following link lists the University’s academic support resources for all students.</i></p> <p><i>Please go to http://go.utdallas.edu/academic-support-resources.</i></p>
UT Dallas Syllabus Policies and Procedures	<p><i>The information contained in the following link constitutes the University’s policies and procedures segment of the course syllabus. Please review the sections regarding the credit/no credit grading option and withdrawal from class. Go to http://go.utdallas.edu/syllabus-policies for these policies.</i></p>

Grading Scale

Semester Grade	Letter Equivalent
97-100	A+
90-96	A
87-89	B+
80-86	B
77-79	C+
70-76	C
60-69	D
<59	F

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