

## Course Syllabus – Spring 2023

### OPRE 3310 – Supply Chain and Operations Management



<b>Course</b>	Operations Management
<b>Course Title</b>	OPRE 3310.501.23S
<b>Professor</b>	Vince Mozik
<b>Term</b>	Spring 2023; Jan. 17 <sup>th</sup> – May 12 <sup>th</sup> ,
<b>Location &amp; Time</b>	JSOM 12.222; Tuesdays 7 pm – 9:45 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 covers concepts useful in efficiently managing the transformation of materials, labor, and capital into products or services in process operations and supply chains. Topics covered include: the role of supply chain and operations management in the firm's overall competitive strategy, key performance measures of operational performance, and tools for improving them. The level of discussion varies from long-term strategic planning to daily control of business processes.

#### Learning Outcomes

Students will understand the role supply chain and operations management plays in business. Upon completion of the course, students will also be able to:

- Articulate supply chain and operations management concepts
- Use both analytics and qualitative tools to solve typical supply chain and operations management problems
- Apply these concepts, analytics, and tools to create value shared by managers, workers, customers, and shareholders

#### Required Texts & Materials:

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

#### About the Instructor:

I have nearly ~20 years of Fortune 500 supply chain experience across 5 industries. I serve as the ASCM (APICS) VP of Education for North Texas Chapter and ASCM(APICS) Master Instructor. I held a variety of operations and supply chain positions at Boeing, 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.

WEEK & DATE	TOPIC	CHPT.	ACTIVITY	DUE DATE @ 7 pm CT
WK 1; Jan. 17	Introduction to Operations Management	1	Class Overview	-
WK 2; Jan. 24	Competitiveness, Strategy, and Productivity	2	4DX	-
<b>Week 3; Jan. 31</b>	<b>No Class - Snow Day</b>	-	-	HW #1
WK 4; Feb. 7	Product and Service Design	4	The Startup Way	-
WK 5; Feb. 14	Supply Chain Management and Strategic Capacity Planning for Products and Services	15, 5	ASCM SCOR	-
WK 6; Feb. 21	Process Selection and Facility Layout, Work Design and Measurement, Location Planning and Analysis	6, 7, 8	Process Flow Design	HW #2
<b>WK 7; Feb. 28</b>	<b>Midterm Exam</b>	-	-	-
WK 8; March 7	Management of Quality and Quality Control	9, 10	Six Sigma	-
<b>WK 9; March 14</b>	<b>No Class - Spring Break</b>	-	-	-
WK 10; March 21	Inventory Management	12	PFEP	-
WK 11; March 28	MRP and ERP	13	SAP	HW #3
<b>WK 12; April 4</b>	<b>Inventory Assessment</b>	-	-	-
WK 13; April 11	Aggregate Planning and Master Scheduling	11	S&OP	-
WK 14; April 18	JIT and Lean Operations	14	Toyota	-
WK 15; April 25	Scheduling	16	SMED	-
WK 16; May 2	Project Management	17	Agile	HW #4
<b>WK 17; May 9</b>	<b>Final Exam (8 – 9 pm)</b>	-	-	-

## Course Policies

<b>Class Materials</b>	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 <a href="#">Student Code of Conduct</a> .
<b>Classroom Conduct Requirements Related to Public Health Measures</b>	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.
<b>Class Attendance</b>	Class attendance is not required but will have an impact on a student final score given the participation category in the grading criteria
<b>Class Participation</b>	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 <a href="#">Student Code of Conduct</a> .
<b>Class Recordings</b>	<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 <a href="#">Student Code of Conduct</a>.</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>
<b>Grading (credit) Criteria</b>	<ul style="list-style-type: none"> <li>• Homework = 25%</li> <li>• Midterm = 20%</li> <li>• Final = 25%</li> <li>• Inventory Assessment = 15%</li> <li>• Class attendance and participation = 15%</li> </ul>
<b>Make-up Exams</b>	To be considered on specific circumstances
<b>Extra Credit</b>	Potential opportunities to be provided in the second half of the semester
<b>Late Work</b>	<p>20% reduction if submitted within 24 hours after due date</p> <p>No points if submitted +24 hours of due date</p>

<b>Special Assignments</b>	N/A
<b>Classroom Citizenship</b>	Enragement and courtesy participation are highly welcome
<b>Comet Creed</b>	<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>  <i>"As a Comet, I pledge honesty, integrity, and service in all that I do."</i>
<b>Academic Support Resources</b>	<i>The information contained in the following link lists the University's academic support resources for all students.</i>  <i>Please go to <a href="http://go.utdallas.edu/academic-support-resources">http://go.utdallas.edu/academic-support-resources</a>.</i>
<b>UT Dallas Syllabus Policies and Procedures</b>	<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 <a href="#">credit/no credit</a> grading option and withdrawal from class. Go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</i>

#### Grading Scale

Semester	Letter
Grade	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.*