



# OSCM 3321 PRODUCTION AND OPERATIONS MANAGEMENT

Spring 2023

CRN: 22043 MW 10:30 am-11:50 am

BUSN 309

Instructor: Yang Yang, Ph.D.

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## COURSE DESCRIPTION

The purpose of this course is to introduce you to the important issues managers face in planning, controlling, and managing operations and supply chains. Manufacturing and operations management produces the products or service that an organization provides to its customers. Careful planning and management of internal and external operations is required if an organization is to prosper, or indeed, to survive. While the course has a strong management emphasis, theoretical aspects and technical competence of analytical tools is given strong emphasis, as these are essential for superior problem solving.

## COURSE OBJECTIVES

The major objective of this course is to provide each student with a basic understanding of the manufacturing functions within the supply chain. The students will also be exposed to selected methods in controlling and planning production processes. In particular, at the end of this course, you should understand:

1. The role of production and operations within a business, and within the larger economy
2. The major strategic choices companies face when choosing and implementing operations
3. The importance of process control, planning and inventory management
4. The practice of quality management and quality management tools in an organization
5. A wide variety of analytical techniques used in production and operations management

## TEXTBOOK

**Operations Management, 13/E, by Jay Heizer & Barry Render, Prentice Hall**

- Students will purchase/register the online book via the blackboard course website.



**Socrative**—Download Socrative app for free. We will use Socrative in class—beginning on the 1st day of the semester.

- **Android:** <https://play.google.com/store/apps/details?id=com.socrative.student&hl=en>.
- **Apple:** <https://itunes.apple.com/us/app/socrative-student/id477618130?mt=8>

**Prerequisite:** QMB 2301 and MATH 2301 each with a grade of "C" or better.

**Course Website:** Syllabus and slides of the lectures can be accessed on the Blackboard. Homework has to be done in Pearson MyOMLab system.

**Attendance:** You are expected to attend classes regularly and on time. You should plan to take careful notes as not all material can be found in the text. You take full responsibility when you miss class or come to class late.

## GRADING

Your final grade will be determined as follows:

	<u>Grade Allocation</u>		<u>Final Grade Table</u>	
Exam 1	100 pts	450 and above		A
Exam 2	100 pts	400~449		B
Exam 3	100 pts	350~399		C
Homework Assignments (10 pts each)	200 pts	300~349		D
		Below 300		F
	<b>Total</b>	<b>500 pts</b>		

## EXAMS

There are three exams. **You must take all three exams.** Makeup exams will be given at the instructor's discretion based solely on valid, documented excuses. If you have to miss an exam with valid, documented excuses and plan to have a makeup exam, **you MUST notify me in advance** (emails, phone calls, a message in my voice mail,...,etc). If you fail to do so, you will not be given a makeup exam. Any makeup exam must be taken within three calendar days of the missed exam or a grade of zero will be recorded.

All exams are delivered in the **IN-CLASS E-EXAMS** using the blackboard platform. For all exams, you will be asked to use the Respondus Lockdown Browser (RLB) and Monitor. There will be a **Mock Quiz** to allow you to get the full experience of taking an exam using these tools. Prior to the quiz/exams, you will be asked to get your personal computer ready to take the exam by downloading and installing all necessary software. You will need to make your webcam available during the Bb exam and you will be video-recorded taking the exam. There is more information on Bb on how to set up RLB and be ready to take all exams. Bring a calculator to the exam with you. Use of cell phones is NOT allowed at any time during the exams.

## ASSIGNMENTS

Homework assignments has to be done in MyOMLab, it is assigned after covering each chapter, and you will have plenty of time (**5~7 days**) to complete it. Homework cannot be made up after its due date, if you expect to miss class, be sure you will be able to do the homework before its due date. 20 homework assignments will be given during the course (15 HW assignments and 5 simulations). Every homework counts!! No homework will be dropped.

**Optional Assignments:** Two optional assignments will be given throughout the semester for extra credit. Details will be provided in blackboard as the semester progresses.

**Quizzes:** There may be quizzes from time to time without prior notice. Each quiz will generally be worth 1 – 2 points. Quizzes may be given at any time during class. There will be no makeup quizzes. Quiz credits are used as extra credits towards your final grade.

## DISRUPTIONS

You are expected to arrive for class on time and stay in class for its duration. Please minimize class disruptions by completing bathroom visit before class time. Please turn off your cell phone once you are in the classroom. DO NOT CHAT WITH OTHERS WHILE I AM LECTURING.

## INCOMPLETE GRADE POLICY

Incomplete grades may be requested only in exceptional circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines.

## ACCOMMODATIONS POLICY

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the [UTEP Center for Accommodations and Support Services](#) (CASS). Contact the Center for Accommodations and Support Services at 915-747-5148, or email them at [cass@utep.edu](mailto:cass@utep.edu), or apply for accommodations online via the [CASS portal](#).

## SCHOLASTIC INTEGRITY

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more, please visit [HOOP: Student Conduct and Discipline](#).

## COVID-19 PRECAUTIONS

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you have tested positive for COVID-19, prior to, after, and/or during your time enrolled in your course(s), you are highly encouraged to report your results to [covidaction@utep.edu](mailto:covidaction@utep.edu) as well as to let our office know at [ppp@utep.edu](mailto:ppp@utep.edu).

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that we can take care of ourselves and others is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area. For more information about the current rates, testing, and vaccinations, please visit [epstrong.org](http://epstrong.org).

## TENTATIVE COURSE SCHEDULE

The instructor will attempt to adhere to the course schedule below, but does reserve the right to alter course content, class assignments and activities, and/or dates as deemed necessary.

**Class Hours: MW 10:30 am-11:50 am    BUSN 309**

<i>Week</i>	<i>Dates</i>	<i>Chapters</i>	<i>Topics</i>
1	01-18		First day of class
<b><i>Module 1: Introduction to Operations Management</i></b>			
2	01-23	1	Introduction to Operations and productivity
	01-25	1	Introduction to Operations and productivity
3	01-30	3	Project Management
	02-01	3	Project Management
4	02-06	4	Forecasting
	02-08	4	Forecasting
5	02-13	2/5/5S	Operations strategy/New product and Sustainability
	02-15		Review for Exam 1
6	02-20		<b>Exam 1</b> (Chapters 1, 2, 3, 4, 5, 5S)
<b><i>Module 2: Within an Organization</i></b>			
	02-22	7S	Capacity and constraint management
7	02-27	7S	Capacity and constraint management (the bracelets game)
	03-01	7	Process strategy
8	03-06	9	Layout strategy
	03-08		3D Printer tour at UGLC 202
	03-13		Spring Break
	03-15		Spring Break
9	03-20	9	Layout strategy
	03-22		Layout strategy
10	03-27	6	Managing quality
	03-29		Review for Exam 2
11	04-03		<b>Exam 2</b> (Chapters 6, 7, 7S, 9)
<b><i>Module 3: Beyond the Organization</i></b>			
	04-05	11/11S/16	Supply Chain Management & Analytics/5S
12	04-10	12	Inventory Management
	04-12	12	Inventory Management
13	04-17	13	Aggregate Planning and S&OP
	04-19	13	Aggregate Planning and S&OP
14	04-24	14	MRP and ERP
	04-26	14	MRP and ERP
15	05-01		Review for Exam 3
	05-03		<b>Exam 3</b> (Chapters 11, 11S, 12, 13, 14 and 16)
	<b>05-12</b>		<b>OPTIONAL Comprehensive Final Exam @ 10:00-12:00</b>

Note: Course drop deadline = March 30<sup>th</sup>