

Course Syllabus

Course Information

Course Prefix, Number, Section OPRE 3310.001
Course Title Operations Management

Term Spring 2021
Days & Times Tuesday, Thursday: 11:30pm-12:45pm
Location Online (through MS Teams)

Professor Contact Information

Professor Ignacio Rios
Office Phone 972-883-5174
Email Address Ignacio.riosuribe@utdallas.edu
Office Location JSOM 14.314
Office Hours Tuesday: 02:00pm-04:00pm, via MS Teams

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Email Address TBA
Office Hours TBA

Course Modality and Expectations

Instructional Mode	Flexible For details, please visit https://www.utdallas.edu/fall-2020/fall-2020-registration-information/
Course Platform	MS Teams for online lectures and office hours; MS Streams for uploading class videos, and e-Learning for course material, discussions, assignments, exams, submissions, and everything else.
Expectations	University guidelines recommend that you study 2-3 hours per week for every credit hour in which you are enrolled. That is, University expectations suggest you spend 6-9 hours outside of class every week on OPRE 3310 homework and studying.
Asynchronous Learning Guidelines	Asynchronous students are expected to watch each lecture before the next one to stay on track. Deadlines for assignments and exams are the same as for synchronous students. For details, please visit https://www.utdallas.edu/fall-2020/asynchronous-access-for-fall-2020/

COVID-19 Guidelines and Resources

The information contained in the following link lists the University's COVID-19 resources for students and instructors of record.

Please see <http://go.utdallas.edu/syllabus-policies>.

Classroom Conduct Requirements Related to COVID-19

UT Dallas requires that all students must wear a face covering that covers the nose and mouth in all university buildings and classrooms. To help protect the health and safety of students, instructors, and the University community, students who choose not to wear a face covering may not attend class in person but may attend a course remotely. Anyone attending class in person without a face covering will be asked to put one on or leave. Instructors may end the class if anyone present refuses to appropriately wear a face covering for the duration of class. Students should also be sure they are at least six feet away from their fellow students and faculty, and seated in a seat that is designated to ensure that distance. Students who either refuse to wear face coverings appropriately or to adhere to other social distancing protocols may face disciplinary action for [Student Code of Conduct](#) violations. Students who are unable to comply with the university policies including wearing a face covering should consult the [Comets United](#) webpage for further instructions.

Students who have tested positive for COVID-19 or may have been exposed should not attend class in person and should instead follow required disclosure notifications as posted on the university's website (see "[What should I do if I become sick?](#)" webpage)

Class Attendance

The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected regardless of modality. Students who fail to attend class regularly are inviting scholastic difficulty. In some courses, instructors may have special attendance requirements; these should be made known to students during the first week of classes. These attendance requirements will not be used as part of grading (see Class Participation below for grading information).

In-person participation records may be used to assist the University or local public health authorities in performing COVID-19 occurrence monitoring. Please note – in-person attendance requires consistently adhering to University requirements, including wearing a face covering and other public safety requirements related to COVID-19, as presented in this syllabus. Failure to comply with these University requirements is a violation of the [Student Code of Conduct](#).

Class Participation

Regular class participation is expected regardless of course modality. 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

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 Pre-requisites, Co-requisites, and/or Other Restrictions

MATH 1326 or MATH 2414 or MATH 2419 .

MATH 2333 or MATH 2418 or CS 2305 or OPRE 3333.

STAT 3360 or OPRE 3360.

Course Description

This course teaches concepts useful in efficiently managing the transformation of materials, labor, and capital into products or services. Topics covered include: the role of operations management in overall competitive strategy, key performance measures, and tools for improving operations performance. The level of discussion varies from long-term strategic planning to daily control of business processes.

Student Learning Objectives/Outcomes

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

- Quantitatively analyze and interpret operations information
- Formulate and solve typical operations management problems
- Document and report operations performance
- Recognize and address ethical issues that arise when managing operations

Required Textbooks and Materials*Required Texts*

William J. Stevenson. "Introduction to Operations Management," 13th ed.

Required Materials

Cachon, G., and Terwiesch, C. "Matching Supply with Demand: An Introduction to Operations Management," 3rd ed.

The lecture notes, and other materials posted on eLearning should be sufficient for the students to learn the material. The optional textbooks are not required.

Assignments & Academic Calendar

Week	Dates	Topic	Deliverables
1	18-Jan to 22-Jan	Introduction to Operations Management Process Analysis I	
2	25-Jan to 29-Jan	Process Analysis II	HW1 Assigned
3	1-Feb to 5-Feb	Waiting Time Analysis	HW1 Fri 7:00 pm CT
4	8-Feb to 12-Feb	Project Management	HW2 Assigned
5	15-Feb to 19-Feb	Project Management and Quality	HW2 Due Fri 7:00 pm CT
6	21-Feb to 25-Feb	Review and Midterm (Intro to OM, Process Analysis, Waiting Time Analysis, Project Management)	Midterm (Thursday)
7	28-Feb to 4-Mar	Capability and Forecasting	
8	7-Mar to 11-Mar	Inventory Management I	HW3 Assigned
9	14-Mar to 18-Mar	Inventory Management II Assessment Quiz Review	HW3 Due Fri 7:00 pm CT
10	21-Mar to 25-Mar	Assessment Quiz (EOQ, Safety Stock, and EPQ) Bullwhip Effect/Supply Chain Contracts/Coordination	
11	28-Mar to 2-Apr	Coordination	HW4 Assigned
12	5-Apr to 9-Apr	Revenue Management	HW4 Due Fri 7:00 pm CT
13	12-Apr to 16-Apr	Introduction to Optimization	
14	19-Apr to 23-Apr	Introduction to Optimization	HW5 Assigned
15	26-Apr to 30-Apr	Introduction to Optimization And Final Review	HW5 Due Fri 7:00 pm CT

Week	Dates	Topic	Deliverables
16	3-May to 7-May	Review and Final (Forecasting, Inventory, Coordination, Revenue Management, Optimization)	Final (Thursday)

Grading Policy

Grades for this class will be based on:

- Homeworks: 25%
- Exam 1 (Midterm): 30%
- Exam 2 (Final): 35%
- Assessment Quiz: 10%

Your final letter grade will be assigned based on your relative standing in the class, and is based solely upon the instructor's discretion and evaluation of the overall performance of the students in the class.

Course Policies

Exams

There will be 2 exams (a midterm and a final), both open-book and open-notes, but no internet. Exams are NOT CUMULATIVE. NO MAKE-UP EXAMS will be scheduled. All exams will be online and you will be able to take them at a time of your choosing (within the specified duration); more details will be communicated prior to the exams.

Homeworks

Five homework assignments will be posted on e-learning under the "Assignments" folder in the course homepage. Please upload your assignments to e-learning by the due date mentioned in the calendar below. NO LATE HOMEWORK WILL BE ACCEPTED! On homework problems requiring calculations, show how you arrived at the calculation. You may discuss homework problems with others, but you must write it up by yourself with full understanding of what you write. Identical assignments will be in violation of university regulations, will receive no credit, and may be subject to disciplinary proceedings.

Assessment Quiz

OPRE 3310 is considered a core course and as such certain measurement instruments are implemented to ensure a uniformity of learning across all sections. These measurements are provided to university accreditation associations during their periodic audits. There will be an online assessment quiz that you can take at a time of your choosing (within a specified duration), more details will be communicated prior to the quiz. The quiz is prepared by an academic committee and will be taken by all OPRE 3310 sections each semester. The grading of the assessment quiz is controlled through a standard grading scheme called a Rubric. The Rubric measures three important elements of learning: 1) understanding, 2) writing, and 3) correct answers. Therefore, students are encouraged to express their understanding of the problems in a clear and concise written format such as writing any formulas completely and correctly.

Class Attendance

You are expected to review the lecture videos uploaded to e-learning each week, and post any questions/comments on the discussion board associated with each week's lecture. Due to the hybrid format of the class, I will not take attendance nor grade participation.

Classroom Citizenship

Given the hybrid nature of the class, there are several tips that can help to keep a good environment. First, computers and tablets are allowed in class (in person and obviously online) but try to avoid using them for activities not related to the class (such as e-mail, internet, games, instant messenger, etc.) during our class sessions. Second, if you are online please turn on your camera (if possible), mute yourself, and only unmute it if you want to make a question/comment/contribution to the class.

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."

Academic Support Resources

The information contained in the following link lists the University's academic support resources for all students.

Please see <http://go.utdallas.edu/academic-support-resources>.

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.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

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