

## OPRE 3310.501 Course Syllabus – Fall 2021



**Course** OPRE 3310.501  
**Course Title** Operations Management  
**Professor** Abdullah Gokcinar  
**Term** Fall 21  
**Meetings** 5:30 PM – 6:45 PM, Mo/We, @JSOM1.107

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### Professor's Contact Information

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| <b>Office Location</b>   | 3.228                                     |
| <b>Email Address</b>     | abdullahhalit.gokcinar@utdallas.edu       |
| <b>Office Hours</b>      | Wednesday 2 PM – 4 PM @ MS Teams          |
| <b>Other Information</b> | You can contact me over email or MS Teams |

### General Course Information

- Pre-requisites, Co-requisites, & 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.

- Learning 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
  - Solve typical operations management problems
  - Document and report operations performance
  - Recognize and address ethical issues that arise when managing operations

**Required Texts & Materials**

There are no required textbooks for the course. Lecture notes and practice questions uploaded on eLearning will be sufficient to learn the material.

- Suggested Texts, Readings, & Materials**
- Some of the topics that will be covered in this class can be found in following textbooks. These textbooks are not required for the class, they are rather recommended for students who foresee a career in Operations Management.
- William J. Stevenson. "Introduction to Operations Management," 13th ed.
  - Cachon, G., and Terwiesch, C. "Matching Supply with Demand: An Introduction to Operations Management," 3rd ed.

## Tentative Course Outline

| WEEK | DATES         | TOPIC/LECTURE   | DELIVERABLES                  |
|------|---------------|---|-------------------------------|
| 1    | Aug 23-25     | Introduction to Operations Management<br>Process Analysis   |                               |
| 2    | Aug 30, Sep 1 | Taxonomy of Process Types<br>Inventory Build-up and Little's Law  | HW 1 Assigned                 |
| 3    | Sep 6-8       | <b>NO CLASS -Labor Day (Sep 6)</b><br>Waiting Time Analysis   | HW1 due Sep 12<br>at 11:59 PM |
| 4    | Sep 13-15     | Project Management  | HW 2 Assigned                 |
| 5    | Sep 20-22     | Project Management,<br><b>Exam 1 Review,<br/>Exam 1</b>   | HW2 due Sep 26<br>at 11:59 PM |
| 6    | Sep 27-29     | Linear Programing   |                               |
| 7    | Oct 4-6       | Quality Management<br>Lean Operations   | HW 3 Assigned                 |
| 8    | Oct 11-13     | Forecasting   | HW3 due Oct 17<br>at 11:59 PM |
| 9    | Oct 18-20     | Forecasting<br><b>Exam 2 Review<br/>Exam 2</b>  |                               |
| 10   | Oct 25-27     | <b>NO CLASS - CONFERENCE (Sep 25-27)</b><br><b>(Recorded sessions will be uploaded)</b><br>Inventory Management | HW 4 Assigned                 |
| 11   | Nov 1-3       | Inventory Management<br><b>Assessment Quiz Review<br/>Assessment Quiz</b>                                       | HW4 due Nov 7<br>at 11:59 PM  |
| 12   | Nov 8-10      | Supply Chain Contracts<br>Bullwhip Effect   | HW 5 Assigned                 |
| 13   | Nov 15-17     | Supply Chain Coordination<br>Revenue Management   | HW5 due Nov 21<br>at 11:59 PM |
| 14   | Nov 22-24     | <b>NO CLASS - Fall Break<br/>NO CLASS - Thanksgiving Holiday</b>  | HW 6 Assigned                 |
| 15   | Nov 29-31     | Revenue Management<br><b>Exam 3 Review</b>  | HW6 due Dec 5<br>at 11:59 PM  |
| 16   | Dec 6         | <b>Exam 3</b>   |                               |

*The descriptions and timelines are subject to change at the discretion of the Instructor.*

| EXAM            | CONTENT              | DATE   |
|-----------------|----------------------|--------|
| Exam 1          | Weeks 1-5            | Sep 24 |
| Exam 2          | Weeks 6-9            | Oct 22 |
| Exam 3          | Weeks 10-15          | Dec 6  |
| Assessment Quiz | Inventory Management | Nov 5  |

## Grading Policy

|                                 |     |
|---------------------------------|-----|
| Class participation and Quizzes | 10% |
| Homework                        | 20% |
| Exam 1                          | 20% |
| Exam 2                          | 20% |
| Exam 3                          | 20% |
| Assessment Quiz                 | 10% |

| Grade             | A+ | A  | A- | B+ | B  | B- | C+ | C  | C- | D+ | D  | F   |
|-------------------|----|----|----|----|----|----|----|----|----|----|----|-----|
| Cutoff Percentage | 93 | 90 | 87 | 83 | 80 | 77 | 73 | 70 | 67 | 63 | 60 | <60 |

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### Make-up exams

No make-up exams will be allowed except in case of medical emergency.

### Late Work

Late work will not be accepted.

### Homework

Assignments will be posted on Elearning. Assignment deadline is critical, so no late submission is allowed. You can have at most two attempts in each assignment and the attempt with the highest grade will be official.

### Exams

There will be 3 exams which will be taken in class. Exams are open notes/book. **Cellphones cannot be used** as calculators. **Exams are not cumulative.** No make-up exam will be scheduled.

### 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 a single Assessment 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.

## Student Resources

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?](#)")

### COVID-19 Resources

[Comets United webpage](#): check frequently

[FAQ](#): check out the FAQs and reach out to your instructor or academic advisor if answers are not included

[Student Resources](#): a variety of resources are available to help students to obtain counseling, health care, and academic support.

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| <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 Fall 2021 semester to the extent allowed by state governance. Texas Governor Greg Abbott's Executive Order <a href="#">GA-38</a> prohibits us from mandating vaccines and face coverings for UT Dallas employees, students, and members of the public on campus. However, we strongly encourage all Comets to get vaccinated and wear face coverings as recommended by the CDC. Check the <a href="#">Comets United: Latest Updates webpage</a> for the latest guidance on the University's public health measures. Comets are expected to carry out <a href="#">Student Safety</a> protocols in adherence to the Comet Commitment. Unvaccinated Comets will be expected to complete the <a href="#">Required Daily Health Screening</a> . Those students who do not comply will be referred to the Office of Community Standards and Conduct for disciplinary action under the <a href="#">Student Code of Conduct – UTSP5003</a> . |
| <b>Class Attendance</b>   | The University's attendance policy requirement is that individual faculty set their course attendance requirements. Regular and punctual class attendance is expected. 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. Faculty have the discretion to set an attendance policy for their in-person meetings, but the absences due to COVID-19 cannot be counted against a quarantined student.  |
| <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>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><br><br><i>"As a Comet, I pledge honesty, integrity, and service in all that I do."</i>  |

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| <b>Academic Support Resources</b>                 | <p><i>The information contained in the following link lists the University's academic support resources for all students.</i></p> <p>Please go to <a href="http://go.utdallas.edu/academic-support-resources">http://go.utdallas.edu/academic-support-resources</a>.</p>   |
| <b>UT Dallas Syllabus Policies and Procedures</b> | <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 <a href="#">credit/no credit</a> grading option and withdrawal from class.</i></p> <p>Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</p> |