Course Description

How do organizations such as financial institutions, health care providers, manufacturing plants, and tech companies meet customer needs and stay consistent with their goals and values? How do organizations make trade-off decisions with respect to quality, cost, and time? Operations Management provides tools and methods to answer these questions systematically in the global business world.

Operations managers are primarily concerned with the design, procurement, production, and delivery of goods and services. They are responsible for planning, designing, operating, controlling and improving the various procurement, production, storage, and shipping processes involved, from the time the product or service is designed until customer delivery occurs. The challenge for operations managers is to produce goods and services and deliver them in an efficient manner according to the business strategy of their company. Typically, this involves balancing the trade-offs between satisfying customer demand, on-time delivery, lower costs, and higher quality.

Course Learning Goals

In this course, you will learn the fundamentals of Operations Management, enhance your managerial insight and intuition, and improve your business decisions.

The focus of this course is on the Marshall Undergraduate Learning Goals (see pp. 15-16 of the syllabus for a complete description) of “understanding key business areas” and “developing critical thinking skills,” while also supporting the goal of “being effective communicators.” Upon successful completion of this course, students will be able to:

- **Goal 1**: Describe the spectrum of operations management activities in a business, and the types of decisions made by operations managers.

- **Goal 2**: Utilize a variety of tools and techniques effectively to compete successfully in the marketplace, including:
  - Process Management
  - Optimization
  - Revenue Management
  - Forecasting and Inventory Management

- **Goal 3**: Predict, anticipate, and take into account how operations management interfaces with other functional areas such as strategy, accounting, finance, human resources, and marketing.

- **Goal 4**: Demonstrate critical thinking skills to assess trade-offs in process design, capacity allocation, inventory levels, and customer service.
Goal 5: Apply optimization tools and techniques to practical problems; for example, use the Excel Solver to formulate and solve a linear optimization problem.

Goal 6: Apply critical thinking and problem-solving and make real-time decisions on capacity, quoted lead-times, work-in-process levels, contracts, and inventory.

Goal 7: Make operational decisions taking into account the global nature of supply chains (via an experiential learning simulation), the interplay between levels of the supply chain and their locations, and its implications for pricing, competition and customer service.

Materials

For most of the class, lecture notes and materials on blackboard will be sufficient. For reinforcement as well as a deeper understanding of the details beyond topics covered in class, there is a custom textbook for BUAD 311. You may choose to purchase a copy or borrow a friend’s


You will also read and write a report on the book “The Goal”, described below. Again, you may choose to purchase a copy (available on Amazon and as an Audio Book) or borrow a friend’s


Prerequisites and/or Recommended Preparation

Co-requisite: BUAD 310

Course Notes

**IMPORTANT:** Please check the Blackboard site and your email daily for class preparation materials or instructions. Some classes require pre-work to establish your foundational knowledge and will not be re-taught during class. *This nugget is to reward those who took time to read the syllabus. If you send an email to Kathy.Takayama@marshall.usc.edu with subject “Syllabus Nugget” before Session 2 lecture you will get your first participation points. Do NOT share this information with classmates.* Lecture slides will be posted on Blackboard. If you would like hard copies of them, it will be your responsibility to print them out.

This course is 100% online. All links can be found on Blackboard under the following menu items:

- **USC Zoom Pro**: Zoom Session (for lectures) and Zoom recordings (prior sessions)
- **Contacts**: Office Hours (with Zoom link) and a link to reserve 1:1 time
- Plus all **Session Pre-Work, Practice, Assignments, Exams, and Grades**
- For assistance with Blackboard or Zoom, contact USC IT

No Recording and Copyright Notice

Online lectures will be record and posted on Blackboard for the students enrolled in this class. It is a violation of USC’s Academic Integrity Policies to share course materials with others without permission. **No student may record any lecture, class discussion or meeting with the instructor without prior express written permissions.** The word “record” or the act of recording includes, but is not limited to, any and all means by which sound or visual images can be stored, duplicated or retransmitted whether by an electro-mechanical, analog, digital, wire, electronic or other device or any other means of signal encoding. Marshall reserves all rights,
including copyright, to the lectures, course syllabi and related materials, including summaries, 
PowerPoints, prior exams, answer keys, and all supplementary course materials available to the 
students enrolled in the class whether posted on Blackboard or otherwise. They may not be 
reproduced, distributed, copied, or disseminated in any media or in any form, including but not 
limited to all course note-sharing websites. Exceptions are made only for students who have 
made prior arrangements with DSP and the instructor.

ASSIGNMENTS AND GRADING DETAIL

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<tr>
<th>Assignments</th>
<th>Weight</th>
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<tr>
<td>Participation</td>
<td>9%</td>
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<tr>
<td>Write-ups (2 cases and The Goal)</td>
<td>3%</td>
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<tr>
<td>Quizzes and Exams</td>
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<tr>
<td>- Quizzes (best 2 out of 3)</td>
<td>10%</td>
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<tr>
<td>- Midterm 1</td>
<td>23%</td>
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<tr>
<td>- Midterm 2</td>
<td>23%</td>
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<tr>
<td>- Final Exam</td>
<td>32%</td>
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The weights listed above determine a student’s overall course grade for this class. The course 
grade represents one’s performance relative to other students in the class. Your grade will not be 
based on a mandated target, but on your performance. Historically, the average grade for this 
class is around a “B.” Your grade will be based on your overall score for the course, as well as 
your ranking among the students in your section.

Class Attendance & Participation

Students are expected to attend all class sessions in their enrolled section. Your participation 
score is based on your contributions to the lectures including, but not limited to thoughtfully 
responding to the instructor’s prompts; asking questions; answering other students’ questions; 
and sharing personal or professional experiences related to course content.

For online classes, if you are unable to attend class in person, you may still earn participation 
credits by watch the recorded session. To ensure the recorded sessions are viewed, there will be 
intermittent Pop Quizzes for those not attending class in person.

BUAD 311 involves several simulation games, particularly in the second half of the course. Your 
performance on these simulation games will be taken into account when computing your 
participation grade.

Write ups

There will be three write-ups for the course: two cases and The Goal. Each contributes 1% to the 
course grade. Write-ups are short essays in response to posted discussion questions and are 
graded PASS or FAIL based on completion and accuracy. Write-ups are to be submitted on 
Blackboard. You should also bring a hard copy of your write-up to class for discussion. 
Students are responsible for familiarizing themselves with the Blackboard assignment submission 
interface and uploading assignments ahead of time; instructors or TAs are not responsible for 
individual technical difficulties related to Blackboard assignment submission.

Quizzes
There are three quizzes, of which the best two will count towards the course grade for 5% each. Quizzes are not cumulative. Quizzes are meant to help keep you “on track” with the course material. To help you prepare, approximately a week before each quiz a short set of quiz questions will be distributed. You are free to work in groups on these questions (and encouraged to do so), but you cannot ask the TA, peer tutors or instructors for help with them. On the day of the quiz in class, one of the questions will be randomly selected from the quiz preparation materials, with slightly different numbers and small modifications. If you have done the quiz preparation questions diligently, the quiz will be very easy for you. Solutions to the quizzes will be distributed only after all sections have taken the quiz, at which point you are free to meet with the TA, peer tutors or instructor for help with the questions. All quizzes are closed books and there are no crib-sheets permitted for quizzes. Each student should bring a stand-alone calculator capable of power and square root operations. Collaboration of any sort on quizzes is strictly prohibited and will result in an “F” in the course grade. Any suspicion of cheating will be reported and investigated by USC. Please see the “Academic Integrity and Conduct” section below for further details.

**Midterms and Final Exam**

There are two midterm exams and one final exam, all of which are cumulative, but greater emphasis will be given to materials since the previous exam. All exams are closed books. Each student may bring one letter-sized (8.5”x11”) double-sided crib sheet for the first midterm, two for the second midterm and three crib sheets for the final. Each student should also bring a stand-alone calculator capable of power and square root operations. Students may not share the same crib sheet or calculator during a test. Study groups are encouraged, however, collaboration of any sort on the actual exams is strictly prohibited and will result in an “F” in the course grade. Any suspicion of cheating will be reported and investigated by USC. Please see the “Academic Integrity and Conduct” section below for further details.

The final examination will take place on Monday, August 3, during your class hours. The final exam will not be given at any other time. According to the USC Office of Academic Records and Registrar, “No student in a course with a final examination is permitted to omit the final examination or take the final examination prior to its scheduled date, and no instructor is authorized to permit a student to do so. No student is allowed to re-take a final examination or do extra work in a course after the semester has ended for purposes of improving his or her grade.”

Students must attend all quizzes and exams at the indicated times and dates, in their enrolled sections. If you foresee a conflict, you must contact the instructor within the first three weeks of the semester to explore alternative options, to be determined by the entire 311 teaching team. No rescheduling of exams will be allowed after the first three weeks of class. The only exception is a “documented medical emergency,” for which the student must provide all of the following documentation by the time of the exam: (1) A signed doctor’s note, with the name and phone number of the medical professional verifying the medical emergency on clinic letterhead; (2) An email from the student’s Marshall advisor; or (3) An email from a USC Support and Advocacy advisor (see “Support Systems” below). For all other reasons of missing a quiz or an exam, including travels for non-emergencies, interviews, adverse traffic conditions, or forgetfulness about exam time, the student will not be allowed to reschedule, and missing a quiz or an exam will result in a zero for the quiz or the exam.
MARSHALL GUIDELINES AND USC POLICIES

Add/Drop Process

BUAD 311 will remain in open enrollment (R-clearance) for the first three weeks of the term. If there is an open seat, students will be freely able to add a class using Web Registration throughout the first three weeks of the term. If the class is full, students will need to continue checking Web Registration to see if a seat becomes available. There are no wait lists for these courses, and professors cannot add students. An instructor may drop any student who, without prior consent, does not attend the first two sessions; the instructor is not required to notify the student that s/he is being dropped. If you are absent three or more times prior to the end of week 3 (the last day to withdraw from a course without a grade of “W”), your instructor may ask you to withdraw from the class by that date. These policies maintain professionalism and ensure a system that is fair to all students.

Class Notes Policy

Notes or recordings made by students based on a university class or lecture may only be made for purposes of individual or group study, or for other non-commercial purposes that reasonably arise from the student’s membership in the class or attendance at the university. This restriction also applies to any information distributed, disseminated or in any way displayed for use in relationship to the class, whether obtained in class, via email or otherwise on the Internet or via any other medium. Actions in violation of this policy constitute a violation of the Student Conduct Code and may subject an individual or entity to university discipline and/or legal proceedings.

Students with Disabilities

USC is committed to making reasonable accommodations to assist individuals with disabilities in reaching their academic potential. If you have a disability which may impact your performance, attendance, or grades in this course and require accommodations, you must first register with the Office of Disability Services and Programs (www.usc.edu/disability). DSP provides certification for students with disabilities and helps arrange the relevant accommodations. Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to your TA) as early in the semester as possible. DSP is located in GFS (Grace Ford Salvatori Hall) 120 and is open 8:30 a.m.–5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776. Email: ability@usc.edu.

Emergency Preparedness/Course Continuity

In case of a declared emergency if travel to campus is not feasible, the USC Emergency Information web site (http://emergency.usc.edu/) will provide safety and other information, including electronic means by which instructors will conduct class using a combination of USC’s Blackboard learning management system (blackboard.usc.edu), teleconferencing, and other technologies.
USC Statement on Academic Conduct and Support Systems

Academic Conduct:
Students are expected to make themselves aware of and abide by the University community’s standards of behavior as articulated in the Student Conduct Code. Plagiarism – presenting someone else’s ideas as your own, either verbatim or recast in your own words – is a serious academic offense with serious consequences. Please familiarize yourself with the discussion of plagiarism in SCampus in Part B, Section 11, “Behavior Violating University Standards” https://policy.usc.edu/scampus-part-b/. Other forms of academic dishonesty are equally unacceptable. See additional information in SCampus and university policies on scientific misconduct, http://policy.usc.edu/scientific-misconduct.

Support Systems:

Counseling and Mental Health - (213) 740-9355 – 24/7 on call studenthealth.usc.edu/counseling
Free and confidential mental health treatment for students, including short-term psychotherapy, group counseling, stress fitness workshops, and crisis intervention.

National Suicide Prevention Lifeline - 1 (800) 273-8255 – 24/7 on call suicidepreventionlifeline.org
Free and confidential emotional support to people in suicidal crisis or emotional distress 24 hours a day, 7 days a week.

Relationship and Sexual Violence Prevention and Services (RSVP) - (213) 740-9355(WELL), press “0” after hours – 24/7 on call studenthealth.usc.edu/sexual-assault
Free and confidential therapy services, workshops, and training for situations related to gender-based harm.

Campus Support & Intervention (CSI) - (213) 740-0411
https://campussupport.usc.edu/
A team of professionals here to assist students, faculty, and staff in navigating complex issues. Whether you are here seeking support for yourself or someone else, we are available to help you problem solve, understand options, and connect with resources. Please note that we are not an emergency resource and are not available 24/7.

Office of Equity and Diversity (OED)- (213) 740-5086 | Title IX – (213) 821-8298
equity.usc.edu, titleix.usc.edu
Information about how to get help or help someone affected by harassment or discrimination, rights of protected classes, reporting options, and additional resources for students, faculty, staff, visitors, and applicants. The university prohibits discrimination or harassment based on the following protected characteristics: race, color, national origin, ancestry, religion, sex, gender, gender identity, gender expression, sexual orientation, age, physical disability, medical condition, mental disability, marital status, pregnancy, veteran status, genetic information, and any other characteristic which may be specified in applicable laws and governmental regulations. The university also prohibits sexual assault, non-consensual sexual contact, sexual misconduct, intimate partner violence, stalking, malicious dissuasion, retaliation, and violation of interim measures.
Reporting Incidents of Bias or Harassment - (213) 740-5086 or (213) 821-8298
usc-advocate.symplicity.com/care_report
Avenue to report incidents of bias, hate crimes, and microaggressions to the Office of Equity and Diversity |Title IX for appropriate investigation, supportive measures, and response.

The Office of Disability Services and Programs - (213) 740-0776
dsp.usc.edu
Support and accommodations for students with disabilities. Services include assistance in providing readers/notetakers/interpreters, special accommodations for test taking needs, assistance with architectural barriers, assistive technology, and support for individual needs.

USC Support and Advocacy - (213) 821-4710
uscса.usc.edu
Assists students and families in resolving complex personal, financial, and academic issues adversely affecting their success as a student.

Diversity at USC - (213) 740-2101
diversity.usc.edu
Information on events, programs and training, the Provost’s Diversity and Inclusion Council, Diversity Liaisons for each academic school, chronology, participation, and various resources for students.

USC Emergency - UPC: (213) 740-4321, HSC: (323) 442-1000 – 24/7 on call
dps.usc.edu, emergency.usc.edu
Emergency assistance and avenue to report a crime. Latest updates regarding safety, including ways in which instruction will be continued if an officially declared emergency makes travel to campus infeasible.

USC Department of Public Safety - UPC: (213) 740-6000, HSC: (323) 442-120 – 24/7 on call
dps.usc.edu
Non-emergency assistance or information.
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<td>Forecasting</td>
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Module 1: Business Process Management

Session 1 – Introduction & Overview, Intro to Process Measures
Question: What is Operations Management (OM)? Why Operations Management?
Outline: You and your classmates will discover that OM defines business competitiveness and study of OM prepares you to become business leaders and entrepreneurs by qualitatively and quantitatively assessing trade-offs.

Learning Outcomes: By the end of this session, students should be able to
- Define and identify Operations Management problems in real-world situations
- Articulate the importance of OM to business competitiveness, leadership, and entrepreneurship
- Construct and interpret business processes using process flow diagrams
- Describe the potential trade-offs in make-to-stock and make-to-order processes

Session 2 – Process Analysis
Question: How do process flows link to the profits? How do we quantify the performance?
Outline: You will learn that the flow of customers or products into and out of a system determines process measures and ultimately the bottom line.

Learning Outcomes: By the end of this session, students should be able to
- Calculate key performance measures of a process, including capacity, flow rate, and utilization rate
- Define flow time and work-in-process
- Identify the bottleneck that governs the capacity of a process

Session 3 – Kristen’s Cookies
Question: What is the makeup of a small cookie business? How do we determine capacity?
Outline: Through this case, you will gain a better understanding of the business profitability through business process analysis; you will evaluate key performance measures under different sales mixes, and recognize the impact of the bottleneck on price and profit.

Learning Outcomes: Through this case, students should be able to
- Conduct business process analysis to assess business profitability
- Evaluate key performance measures under different sales mixes
- Quantify the impact of the bottleneck on price and profit

Session 4 – More on Process Analysis
Question: Is it possible to improve utilization rate and capacity at the same time?
Outline: You will study strategies to meet seasonal demand and how flexible resources help increase system capacity and utilization rate at the same time. Through several examples, we will also solidify our understanding of calculating metrics such as capacity.

Learning Outcomes: By the end of this session, students should be able to
- Describe strategies for meeting seasonal demand and the impact of variability/seasonality on capacity requirement
- Utilize flexible resources to increase system capacity and utilization rate at the same time
- Calculate performance measures in the presence of multiple products and yield losses

Session 5 – Little’s Law & Waiting Line Management
Question: What is Little’s Law? How can it shed insight onto business process performance?
Outline: There is an important relationship among key performance indicators of a process. You will learn the powerful formula to help you better understand the performance of the business processes.

Learning Outcomes: By the end of this session, students should be able to
- Link various performance measures using Little’s Law
- Articulate related business insights
- Apply the formula in various environments

Question: What principles can support us in understanding and managing waiting lines?
Outline: We wait. Understanding waiting as a phenomenon enables us to create schedules, monitor inventory, analyze service, and determine a cost-effective balance for optimal performance and revenues. In this class, you will build a core understanding of three important factors pertaining to the performance of the waiting lines.

Learning Outcomes: By the end of this session, students should be able to
- Define characteristics of a waiting line queueing system
- Explain the effects of variability, utilization rate, and risk pooling on waiting line performance
- Describe the psychology of waiting lines

Session 6 – The Goal
Question: What is “the Goal” of a firm? How do the concepts we learned interact in a firm?
Outline: The book “The Goal” provides a nice description of the process flows, accounting measures, bottleneck management, and the concepts of the Theory of Constraints and continuous improvement. You will better understand the key concepts we have learned in a real-world setting.

Learning Outcomes: After reading and discussing the book “The Goal,” students should be able to
- Describe the connection between process flows, accounting measures, bottleneck management, as well as the concepts of the Theory of Constraints and continuous improvement in a real-world setting
- Link financial measures to operations measures
- Identify and manage bottlenecks
- Explain the effects of dependent events and statistical fluctuations on processes

Session 7 – Midterm 1 Review

Session 8 – Midterm 1
Module 2: Optimization

Sessions 9 – Introduction to Linear Optimization and Solving Linear Optimization

**Question:** How do we find the optimal solution? What is linear optimization? How do we solve it?

**Outline:** Optimization gives business a critical edge. In this class, you will learn that optimization is a powerful tool that can be applied to various business problems not limited to operations management. You will be able to formulate a linear optimization problem (LOP) and solve small LOPs using Excel Solver.

**Learning Outcomes:** By the end of this session, students should be able to
- Identify the powerful impact of optimization on business problems
- Describe components of a linear optimization problem (LOP)
- Formulate a linear optimization problem and solve it using the Excel Solver

Session 10 – Interpreting Linear Optimization

**Question:** How can we interpret sensitivity analysis reports when the real-life challenge is vague?

**Outline:** You will practice more advanced LOP in Excel. You will appreciate the value of the Excel reports, which help you understand and interpret how LOP solutions change when the conditions vary.

**Learning Outcomes:** By the end of this session, students should be able to
- Solve an LOP using the Excel Solver
- Interpret sensitivity analysis based on Excel reports for business insights
- Distinguish scenario analysis from sensitivity analysis

Session 11 – Additional Optimization Applications

**Question:** How do Internet companies and traditional companies rely on optimization?

**Outline:** Optimization has become a backbone for many businesses. You will investigate some typical business problems where optimization is used and understand that Internet companies and traditional companies alike are embracing optimization to solve business problems.

**Learning Outcomes:** By the end of this session, students should be able to
- Describe some common optimization problems in the business world, for both Internet companies and traditional companies
- Incorporate scenario analysis into an optimization formulation

Session 12 – Decision Trees

**Question:** How can we optimize our decision in an uncertain world? What is a Decision Tree?

**Outline:** The Decision Tree is a schematic model used to manage uncertainty by clearly identifying alternative choices. You will learn how to construct a decision tree—its nodes and branches—and solve for the optimal decision.

**Learning Outcomes:** By the end of this session, students should be able to
- Use decision trees to express alternative choices and to manage uncertainty
- Describe differences between the three types of nodes in a decision tree
- Solve decision tree problems

Session 13 – Revenue Management: Pricing

**Question:** What is Revenue Management? How does it help business to increase profit? How to set prices?

**Outline:** You will understand the key concepts of revenue management. In this lesson, you will be use an online platform to understand how to use consumer valuation information to set prices.

**Learning Outcomes:** By the end of this session, students should be able to
• Learn how to set prices based on customer valuation information
• Employ an analytical approach to make pricing decisions.

Session 14 – Midterm 2 Review

Session 15 – Midterm 2

Module 3: Inventory and Supply Chain Management

Session 16 – Inventory Management: EOQ and Newsvendor
Question: Why carry inventory? What is “economies of scale”? How can we minimize costs?
Outline: Inventory is essential for business activities though it can be costly. You will examine the trade-offs between economies of scale and inventory cost and learn how to find the right amount of inventory using the economic order quantity (EOQ) formula.
Learning Outcomes: By the end of this session, students should be able to
• Describe the different purposes for keeping inventory
• Explain the trade-offs between economies of scale and inventory cost in a basic inventory problem
• Optimize the amount of inventory using the economic order quantity (EOQ) formula
• Define inventory turns, a key performance measure

Question: Why carry inventory? How to ensure customer satisfaction with minimum inventory?
Outline: Inventory is a necessary evil especially when you face demand uncertainty. You will examine the trade-offs and apply marginal analysis to solve the problem optimally. You will also be able to establish an inventory policy when both economies of scale and demand uncertainty are present.
Learning Outcomes: By the end of this session, students should be able to
• Identify the elements and trade-offs of a basic inventory problem
• Apply marginal analysis to optimize inventory decisions in face of demand uncertainty
• Explain the risk pooling effect in inventory systems
• Derive the (ROP, Q) inventory policy when both economies of scale and demand uncertainty are present

Session 17 – Inventory Management: Continuous Review
Question: We establish and analyze an inventory policy when both economies of scale and demand uncertainty are present.
Learning Outcomes: By the end of this session, students should be able to
• Explain the risk pooling effect in inventory systems in a dynamic manner.
• Derive the (ROP, Q) inventory policy when both economies of scale and demand uncertainty are present
• Understand the tradeoffs between uncertainty, delay, and inventory decisions.

Session 18 – Zara Case
Question: Have you been to a Zara store? How does Zara manage its inventory and supply chain?
Outline: The fashion business is demanding on inventory management because leftovers get significant markdowns. You will study and understand Zara’s supply chain structure and its inventory policy and examine how its operation strategy aligns with its business strategy.

Learning Outcomes: Through this case, students should be able to:
- Describe the importance of inventory management in the fashion business, in light of significant markdowns for leftover inventory
- Analyze Zara’s supply chain structure and its inventory policy
- Explain how Zara’s operation strategy aligns with its business strategy

Session 19 – Forecasting

Question: How do we plan without seeing the future? What makes a good forecast?

Outline: Anticipating the future is no easy task. From astrologers to business managers, we try as best we can to use science and mathematics to demystify the unknown for optimal decision-making. Finance, marketing, as well as production and service, rely on forecasting to make both long-term and short-term management decisions. You will learn the basic methods to forecasting, become skilled at calculating measurement error, and understand the trade-offs between responsiveness and stability in parametric selection. You will also learn the basics of Supply chain management.

Learning Outcomes: By the end of this session, students should be able to:
- Describe the importance of forecasting for long-term and short-term decisions in finance, marketing, production and service
- Explain basic concepts and components of forecasting
- Measure the forecast error of a forecast method
- Apply the simple moving average model and the exponential smoothing method
- Assess the trade-offs between responsiveness and stability in parametric selection
- Understand the structure of supply chains

Session 20 – Final Review

FINAL EXAM: Monday, Aug 3, 2020 during class hours
## Contribution of BUAD311 Operations Management to Student Achievement of Marshall’s Six Undergraduate Program Learning Goals

<table>
<thead>
<tr>
<th>#</th>
<th>Marshall Program Learning Goal Description</th>
<th>Degree of Emphasis</th>
<th>BUAD311 Course Learning Goals that Support This Marshall Undergraduate Goal</th>
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<tbody>
<tr>
<td>1</td>
<td>Our graduates will understand types of markets and key business areas and their interaction to effectively manage different types of enterprises. Specifically, students will:</td>
<td>High</td>
<td>BUAD311 Course Objectives 1-7 support Goal 1</td>
</tr>
</tbody>
</table>
| 1.1 | Demonstrate foundational knowledge of core business disciplines, including business analytics and business economics. |  | 1. Explain interfaces with other functional areas  
2. Analyze trade-offs in decision-making  
3. Explain the global nature of supply chain |
| 1.2 | Understand the interrelationships between functional areas of business so as to develop a general perspective on business management. |  | 1. Explain interfaces with other functional areas  
2. Analyze trade-offs in decision-making  
3. Understand the global nature of supply chain  
6. Apply operations management tools/techniques  
7. Formulate a linear program for optimal product-mix |
| 1.3 | Apply theories, models, and frameworks to analyze relevant markets (e.g. product, capital, commodity, and factor and labor markets). |  | 2. Analyze trade-offs in decision-making  
3. Understand the global nature of supply chain  
4. Describe and improve waiting line and revenue management  
5. Apply process analysis and capacity management skills to manage a factory in real-time  
6. Apply operations management tools/techniques  
7. Formulate a linear program for optimal product-mix |
| 1.4 | Show the ability to utilize technologies (e.g., spreadsheets, databases, software) relevant to contemporary business practices. |  | 6. Apply operations management tools/techniques  
7. Formulate a linear program for optimal product-mix |
| 2  | Our graduates will develop a global business perspective. They will understand how local, regional, and international markets, and economic, social and cultural issues impact business decisions so as to anticipate new opportunities in any marketplace | Low | BUAD311 Course Learning Goals 1, 2, 3, 5, and 6 support Marshall Goal 2 |
| 2.1 | Understand how local, regional and global markets interact and are impacted by economic, social and cultural factors. |  | 1. Explain interfaces with other functional areas  
3. Explain the global nature of supply chain |
| 2.2 | Understand that stakeholders, stakeholder interests, business environments (legal, regulatory, competitor) and business practices vary across regions of the world. |  | 1. Explain interfaces with other functional areas  
2. Analyze trade-offs in decision-making  
3. Explain the global nature of supply chain  
5. Apply process analysis and capacity management skills to manage a factory in real-time  
6. Apply operations management tools/techniques |
| 3  | Our graduates will demonstrate critical thinking skills so as to become future-oriented decision makers, problem solvers and innovators. Specifically, students will: | High | BUAD311 Course Learning Goals 1-7 support Marshall Goal 3 |
### 3.1 Understand the concepts of critical thinking, entrepreneurial thinking and creative thinking as drivers of innovative ideas.

1. Explain interfaces with other functional areas
2. Analyze trade-offs in decision-making
3. Explain the global nature of supply chain
4. Learn waiting line and revenue management
5. Apply process analysis and capacity management skills to manage a factory in real-time
6. Apply operations management tools/techniques
7. Formulate a linear program for optimal product-mix

### 3.2 Critically analyze concepts, theories and processes by stating them in their own words, understanding key components, identifying assumptions, indicating how they are similar to and different from others and translating them to the real world.

1. Explain interfaces with other functional areas
2. Analyze trade-offs in decision-making
3. Describe and improve waiting line and revenue management
4. Apply process analysis and capacity management skills to manage a factory in real-time
5. Apply operations management tools/techniques
6. Formulate a linear program for optimal product-mix

### 3.3 Be effective at gathering, storing, and using qualitative and quantitative data and at using analytical tools and frameworks to understand and solve business problems.

4. Learn waiting line and revenue management.
5. Apply process analysis and capacity management skills to manage a factory in real-time
6. Apply operations management tools/techniques
7. Formulate a linear program for optimal product-mix

### 3.4 Demonstrate the ability to anticipate, identify and solve business problems. They will be able to identify and assess central problems, identify and evaluate potential solutions, and translate a chosen solution to an implementation plan that considers future contingencies.

1. Explain interfaces with other functional areas
2. Analyze trade-offs in decision-making
3. Describe and improve waiting line and revenue management.
5. Apply process analysis and capacity management skills to manage a factory in real-time
6. Apply operations management tools/techniques
7. Formulate a linear program for optimal product-mix

### 4 Our graduates will develop people and leadership skills to promote their effectiveness as business managers and leaders. Specifically, students will:

**Moderate**

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<th>Mod erate</th>
<th>BUAD311 Course Learning Goals 1-6 support Marshall Goal 4</th>
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| 4.1 Recognize, understand, and analyze the motivations and behaviors of stakeholders inside and outside organizations (e.g., teams, departments, consumers, investors, auditors). | 1. Explain interfaces with other functional areas
2. Analyze trade-offs in decision-making
3. Explain the global nature of supply chain
4. Describe and improve waiting line and revenue management |
| 4.2 Recognize, understand and analyze the roles, responsibilities and behaviors of effective managers and leaders in diverse business contexts e.g., marketing, finance, accounting. | 1. Explain interfaces with other functional areas
6. Apply operations management tools/techniques |
| 4.3 Understand factors that contribute to effective teamwork. | 5 Apply process analysis and capacity management skills to manage a factory in real-time
6. Apply operations management tools/techniques |
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<th>Our graduates will demonstrate ethical reasoning skills, understand social, civic, and professional responsibilities and aspire to add value to society. Specifically, students will:</th>
<th>Low</th>
<th>BUAD311 Course Learning Goals 1 and 2 support Marshall Goal 5</th>
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<tbody>
<tr>
<td>5.1</td>
<td>Understand professional codes of conduct.</td>
<td>1. Explain interfaces with other functional areas</td>
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<td>5.2</td>
<td>Recognize ethical challenges in business situations and assess appropriate courses of action.</td>
<td>1. Explain interfaces with other functional areas 2. Analyze trade-offs in decision-making</td>
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<td>6</td>
<td>Our graduates will be effective communicators to facilitate information flow in organizational, social, and intercultural contexts. Specifically, students will:</td>
<td>Moderate</td>
<td>BUAD311 Course Learning Goals 1 and 6 support Marshall Goal 6</td>
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<tr>
<td>6.1</td>
<td>Identify and assess diverse personal and organizational communication goals and audience information needs</td>
<td>1. Explain interfaces with other functional areas 6. Apply operations management tools/techniques</td>
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<tr>
<td>6.2</td>
<td>Understand individual and group communications patterns and dynamics in organizations and other professional contexts</td>
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<td>6.3</td>
<td>Demonstrate an ability to gather and disseminate information and communicate it clearly, logically, and persuasively in professional contexts.</td>
<td>6. Apply operations management tools/techniques, create and defend well-reasoned solutions</td>
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