



## Master Course Syllabus

For additional course information, including prerequisites, corequisites, and course fees, please refer to the Catalog: <https://catalog.uvu.edu/>

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**Semester:** Spring

**Year:** 2025

**Course Prefix:** MGMT

**Course and Section #:** 3450 – X06

**Course Title:** Operations Management

**Credits:** 3

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### *Course Description*

This course is concerned with planning and controlling business operations. It ensures that business operations are efficient in terms of using as few resources as needed and effective in terms of meeting customer requirements.

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### *Course Attributes*

This course has the following attributes:

- General Education Requirements
- Global/Intercultural Graduation Requirements
- Writing Enriched Graduation Requirements
- Discipline Core Requirements in Program
- Elective Core Requirements in Program
- Open Elective

Other: *Click here to enter text.*

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### *Instructor Information*

**Instructor Name:** Cenk Caliskan Professor

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### *Student Learning Outcomes*

- 1) Define and compute productivity measures.
  - 2) Apply forecasting techniques to forecast demand, revenue, and expenses.
  - 3) Perform break-even analysis.
  - 4) Balance production lines.
  - 5) Time processes using the stopwatch time study method.
  - 6) Locate facilities using the factor rating and center of gravity methods.
  - 7) Optimize order quantities and determine reorder points.
  - 8) Schedule jobs using FCFS, EDD, and SPT sequencing rules.
  - 9) Schedule projects.
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### *Course Materials and Texts*

Operations and Supply Chain Management, 2024, William Stevenson and Thomas Kull, McGraw Hill.

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### *Course Requirements*

## Course Assignments, Assessments, and Grading Policy

### Grading

Exams	50%	94% – 100%	A	72% – < 77%	C
Assignments	50%	90% – < 94%	A-	70% – < 72%	C-
SRI	1%	87% – < 90%	B+	67% – < 70%	D+
		82% – < 87%	B	62% – < 67%	D
		80% – < 82%	B-	60% – < 62%	D-
		77% – < 80%	C+	0% – < 60%	E

### Policies

- Exams and Assignments: See the detailed instructions and policies in the Study Guide posted on canvas.
- Late Submission: To submit late assignments, email the instructor. The deduction is 30 points unless the student has a reasonable excuse.
- Students need to regularly check their inbox on Canvas for important messages from the instructor.

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### Required or Recommended Reading Assignments

All required readings use chapters from the course text that align with the lectures below.

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### General Description of the Subject Matter of Each Lecture or Discussion

#### Chapter 2

- Section 2.7 Productivity

#### Chapter 3

- Section 3.8 Forecasts based on Time-series Data: Naive, Moving Average, Weighted Moving Average, Exponential Smoothing, and Trend Equation.
- Section 3.10 Forecast Accuracy

#### Chapter 5

- Section 5.11 Evaluating Alternatives

#### Chapter 6

- Section 6.6 Designing Product Layouts: Line Balancing

#### Chapter 7

- Section 7.6 Work Measurement: Stopwatch Time Study

#### Chapter 8

- Section 8.7 Evaluating Location Alternatives: Factor Rating and The Center of Gravity Method

#### Chapter 12

- Section 12.3 Requirements for Effective Inventory Management: Inventory Costs
- Section 12.5 How Much to Order: Economic Order Quantity Models: Basic Economic Order Quantity (EOQ) Model
- Section 12.6 Reorder Point Ordering

#### Chapter 16

- Section 16.2 Scheduling in Low-Volume Systems: Sequencing (FCFS, SPT, EDD rules) and Sequencing Jobs through Two Work Centers

#### Chapter 17

- Section 17.6 PERT and CPM: Use AON (Activity-On-Node) diagrams. The AOA (Activity-On-Arrow) diagrams are not commonly used.
- Section 17.7 Deterministic Time Estimates

## ***Required Course Syllabus Statements***

### **Generative AI**

Purely Yours: All submitted work should be entirely your own, with no input or assistance from AI tools.

Detection Mechanisms: Be aware that sophisticated tools can detect AI-generated content. Integrity in submissions is essential.

Consequences: Any detected use of AI tools against this policy may lead to grade deductions or further academic repercussions. Stay genuine and stay safe.

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### **Using Remote Testing Software**

This course does not use remote testing software.

This course uses remote testing software. Remote test-takers may choose their remote testing locations. Please note, however, that the testing software used for this may conduct a brief scan of remote test-takers' immediate surroundings, may require use of a webcam while taking an exam, may require the microphone be on while taking an exam, or may require other practices to confirm academic honesty. Test-takers therefore shall have no expectation of privacy in their test-taking location during, or immediately preceding, remote testing. If a student strongly objects to using test-taking software, the student should contact the instructor at the beginning of the semester to determine whether alternative testing arrangements are feasible. Alternatives are not guaranteed.

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## ***Required University Syllabus Statements***

### **Accommodations/Students with Disabilities**

Students needing accommodations due to a permanent or temporary disability, pregnancy or pregnancy-related conditions may contact UVU [Accessibility Services](#) at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu) or 801-863-8747.

Accessibility Services is located on the Orem Campus in BA 110.

Deaf/Hard of Hearing students requesting ASL interpreters or transcribers can contact Accessibility Services to set up accommodations. Deaf/Hard of Hearing services can be contacted at [DHHservices@uvu.edu](mailto:DHHservices@uvu.edu)

DHH is located on the Orem Campus in BA 112.

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### **Academic Integrity**

At Utah Valley University, faculty and students operate in an atmosphere of mutual trust. Maintaining an atmosphere of academic integrity allows for free exchange of ideas and enables all members of the community to achieve their highest potential. Our goal is to foster an intellectual atmosphere that produces scholars of integrity and imaginative thought. In all academic work, the ideas and contributions of others must be appropriately acknowledged and UVU students are expected to produce their own original academic work.

Faculty and students share the responsibility of ensuring the honesty and fairness of the intellectual environment at UVU. Students have a responsibility to promote academic integrity at the university by not participating in or facilitating others' participation in any act of academic dishonesty. As members of the academic community, students must become familiar with their [rights and responsibilities](#). In each course, they are responsible for knowing the requirements and restrictions regarding research and writing, assessments, collaborative work, the use of study aids, the appropriateness of assistance, and other issues. Likewise, instructors are responsible to clearly state expectations and model best practices.

Further information on what constitutes academic dishonesty is detailed in [UVU Policy 541: Student Code of Conduct](#).

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### **Equity and Title IX**

Utah Valley University does not discriminate on the basis of race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, age (40 and over), disability, veteran status, pregnancy, childbirth, or pregnancy-related conditions, citizenship, genetic information, or other basis protected by applicable law, including Title IX and 34 C.F.R. Part 106, in employment, treatment, admission, access to educational programs and activities, or other University benefits or services. Inquiries about nondiscrimination at UVU may be directed to the U.S. Department of Education's Office for Civil Rights or UVU's Title IX Coordinator at 801-863-7999 – [TitleIX@uvu.edu](mailto:TitleIX@uvu.edu) – 800 W University Pkwy, Orem, 84058, Suite BA 203.

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### **Religious Accommodation**

UVU values and acknowledges the array of worldviews, faiths, and religions represented in our student body, and as such provides supportive accommodations for students. Religious belief or conscience broadly includes religious, non-religious, theistic, or non-theistic moral or ethical beliefs as well as participation in religious holidays, observances, or activities. Accommodations may include scheduling or due-date modifications or make-up assignments for missed class work.

To seek a religious accommodation, a student must provide written notice to the instructor and the Director of Accessibility Services at [accessibilityservices@uvu.edu](mailto:accessibilityservices@uvu.edu). If the accommodation relates to a scheduling conflict, the notice should include the date, time, and brief description of the difficulty posed by the conflict. Such requests should be made as soon as the student is aware of the prospective scheduling conflict.

While religious expression is welcome throughout campus, UVU also has a [specially dedicated space](#) for meditation, prayer, reflection, or other forms of religious expression.