



IE 318-01E – Analysis of Production Systems

COURSE SYLLABUS: Spring 2026

INSTRUCTOR INFORMATION

Instructor:	Jeremy Jenkins
Office Location:	AG/ET 209
Office Hours:	Monday-Wednesday 12pm-3pm
Extra online office hours	Tuesday 2-4
Office Phone:	469-359-1830
University Email Address:	jeremy.jenkins@etamu.edu
Preferred Form of Communication:	Email
Communication Response Time:	48 hours
Course Times:	MW 10am-11:15pm
Course Classroom:	AG/ET 118A

COURSE INFORMATION

Textbook Required:

William J. Stevenson (2018). 13th edition. Operations Management. NY: McGraw-Hill / Irwin.

Software Required:

Microsoft Office (Word, Excel, and Powerpoint)

Course Description

Analytical principles of production systems analysis and control; emphasis placed on stochastic analysis; role of variability and impact on cycle time; push versus pull production strategies; inventory models; production planning and scheduling; queuing models. Prerequisites: IE 311 and IE 312 with a minimum of C.

Student Learning Outcomes

After completing this course:

The syllabus/schedule are subject to change.

1. Illustrate qualitative and quantitative forecasting techniques and their influence on production planning and control.
2. Solve aggregate planning problems.
3. Solve inventory control and planning issues using either deterministic or stochastic modeling.
4. Understand the push and pull philosophies in production planning.
5. Demonstrate operation scheduling methods in variety shop environment.
6. Analyzing queuing models.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

1. A scientific calculator for exams.
2. Microsoft Word, Excel, PowerPoint.

Instructional Methods

This course utilizes lectures, assignments to assist students in achieving the course learning outcomes.

Student Responsibilities or Tips for Success in the Course

Students should attend the lectures and deliver the assignment in a timely manner.

GRADING

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

Weights of the assessments in the calculation of the final letter grade.

Grading rubric

Exam 1:	25%
Exam 2:	25%
Quizzes & Homework:	25%
Term project:	25%
TOTAL	100%

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Assessments

This course utilizes lectures and assignments to assist students in achieving the course learning outcomes. The assessment criteria for the stated student learning outcomes will include a term project, assignments, and exams.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

One day late assignment is accepted with a 15% grade deduction; after this, no assignment will be accepted.

Assignments and labs will be given to support the instructional material (homework assignment). Students will have an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice. Students will have an ability to communicate effectively.

There will be three exams. Students will apply statistics to solve applied engineering problems. Exams will be used to assess a student's knowledge and skills related to applied statistics concepts.

The student project is devised to make students utilize their knowledge to solve real world problems. The types of projects will be left up to the student teams. The final report should be comprehensive, should describe methods used, and should show and illustrate the improvements and the final solution. A detail written procedure will be provided at the time of team member formation.

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

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COURSE OUTLINE / CALENDAR

Week	Date	Topic	Source
1	1/12	Introduction to Operations Management	Ch.1
	1/14	Introduction to Operations Management	Ch.1
2	1/19	Quiz1	
	1/21	Competitiveness, Strategy, and Productivity	Ch.2
3	1/26	Forecasting	Ch.3
	1/28	Forecasting/ Quiz 2	Ch.3
4	2/2	Aggregate Planning and Master Scheduling	Ch.11
	2/4	Aggregate Planning and Master Scheduling	Ch.11
5	2/9	Aggregate Planning and Master Scheduling/ Quiz 3	Ch.11
	2/11	MRP and ERP	Ch. 12
6	2/16	MRP and ERP	Ch. 12
	2/18	MRP and ERP	Ch. 12
7	2/23	Exam 1	Exam 1
	2/25	Inventory Management	Ch. 13
8	3/2	Inventory Management	Ch. 13
	3/4	Inventory Management/ Quiz 4	Ch. 13
9	3/9	Spring break	
	3/11	Spring break	
10	3/16	Course Progress Meeting	
	3/18	JIT and Lean Operations	Ch. 14
11	3/23	JIT and Lean Operations	Ch. 14
	3/25	Project Discussion	
12	3/30	Supply Chain Management	Ch. 15
	4/1	Scheduling	Ch. 16
13	4/6	Scheduling	Ch. 16
	4/8	Management of Waiting Lines/ Quiz 5	Ch. 18
14	4/13	Exam review	
	4/15	Exam 2	13,14,15,16,18
15	4/20	Project Review	

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	4/22	Term Project meeting	No Class Mtg
16	4/27	Term Project meeting	No Class Mtg
	4/29	Term Project meeting	No Class Mtg
17	Final week	Final Presentation	

TECHNOLOGY REQUIREMENTS

LMS

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

Zoom Video Conferencing Tool

https://inside.tamuc.edu/campuslife/CampusServices/CITESupportCenter/Zoom_Account.aspx?source=universalmenu

STUDENT RESPONSIBILITIES FOR COURSE

CWID and Password

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@etamu.edu.

Technology-Related Issues

Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a ETAMU campus open computer lab, etc.

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TECHNOLOGY REQUIREMENTS AND SUPPORT

Minimal Technical Skills Needed

Students will need reliable computer and internet access for this course. Students must be able to effectively use myLeo email, myLeo Online D2L, and Microsoft Office.

Learning Management System (LMS) – D2L

All course sections offered by East Texas A&M University have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are the technical requirements:

- View the [Learning Management System Requirements Webpage](#).
- Learn more on the [LMS Browser Support Webpage](#).

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found on the [Brightspace Support Webpage](#).

COMMUNICATION AND SUPPORT

Interaction with Instructor Statement

If you have any questions or are having difficulties with the course material, please contact your instructor. Correspondence will always be through university email (your “myLeo” mail) and announcements in myLeo online (D2L). You will not RECEIVE email through D2L, so be sure to check your ETAMU email for communication. Students are encouraged to check university email daily.

Include the Following in Emails with Instructor:

- Course name and subject in the subject line
- Salutation (Good afternoon, Dr. Jackson)
- Proper email etiquette (no “text” emails – use proper grammar and punctuation)

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- Student name and CWID after the body of the email (possibly add to student signature on email)
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Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The [Code of Student Conduct](#) is described in detail online in the [Student Guidebook](#).

Students should also consult the [Rules of Netiquette Webpage](#) for more information regarding how to interact with students in an online forum.

ETAMU Attendance

For more information about the attendance policy, please view the [Attendance Webpage](#) and the [Class Attendance Policy](#)

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty University Procedure 13.99.99.R0.03](#)

[Undergraduate Student Academic Dishonesty Form](#)

[Graduate Student Academic Dishonesty University Procedure 13.99.99.R0.10](#)

[Graduate Student Academic Dishonesty Form](#)

Use of Artificial Intelligence

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or

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suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources

Students with Disabilities-- ADA Statement

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

East Texas A&M University

Velma K. Waters Library Rm 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: studentdisabilityservices@etamu.edu

Website: [Office of Student Disability Services](#)

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information, or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

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Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and ETAMU Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M University campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

East Texas A&M Supports Students' Mental Health – Counseling Services

The Counseling Center at East Texas A&M University, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit <https://www.etamu.edu/counseling-center/>

Mental Health and Well-Being

The university aims to provide students with essential knowledge and tools to understand and support mental health. As part of our commitment to your well-being, we offer access to Telus Health, a service available 24/7/365 via chat, phone, or webinar. Scan the QR code to download the app and explore the resources available to you for guidance and support whenever you need it.

