



EAST TEXAS A&M

Supply Chain Analytics

(SCM-432-01W)

Fall 2026 – August 20, 2026 – December 3, 2026

Course Information

Adjunct Instructor: Kassie Sheets

Office Hours: By appointment via Zoom, Tuesday–Thursday, 6:30–8:30 p.m. Central Time

Department Contact: Stacy Roberts, Department Administrator | 903-886-5703

Email: kassie.sheets@etamu.edu | Text: 972-653-0104

Required Materials

Advanced Supply Chain: Strategic Concepts & Case Studies courseware

Author: Nathan Stempel, M.Eng.

ISBN: 978-1-956963-61-8

Access: Online through Stukent | Software: Microsoft Excel, Word, and PowerPoint

Course Link: <https://join.stukent.com/join/E05-559>

Course Description

This course develops analytical decision-making skills through the strategic design and management of supply chains. Students use the Advanced Supply Chain courseware, weekly chapter quizzes, and weekly assignments to connect enterprise strategy with network design, manufacturing, data, enterprise software, performance metrics, innovation, global operations, risk, and sustainability. Real-world case studies embedded in the courseware illustrate how chapter concepts operate in practice; they are not separate graded assignments. Emphasis is placed on researching one enterprise, evaluating trade-offs, and communicating defensible recommendations for leadership.

Instructional Methods

This course is delivered in an online format. You will find the majority of the information and materials that you will need to complete the course in this syllabus and on the D2L course management website. However, optional live Zoom lessons will be held periodically to allow students to log in and be involved in a live discussion. These sessions will be recorded and available to all students.

Course Objectives and Measurements

After successfully completing this course, students will be able to:

- Explain how supply chain design supports enterprise strategy and competitive advantage.
- Analyze supply chain networks, data, systems, and performance metrics using appropriate quantitative and qualitative methods.
- Evaluate alternatives by comparing cost, service, risk, feasibility, and strategic alignment.
- Develop evidence-based recommendations supported by transparent calculations, assumptions, tables, and visualizations.

Student Learning Outcomes (SLOs)

SLO	Student Learning Outcome	Primary Chapters
SLO 1	Explain how supply chain strategy supports enterprise objectives and competitive advantage.	Ch. 1–2
SLO 2	Analyze network design, network management, and manufacturing decisions using relevant evidence.	Ch. 3–5
SLO 3	Interpret supply chain data and evaluate enterprise software and performance measures.	Ch. 6–8
SLO 4	Assess innovation, global supply chain, and risk alternatives using comparative analytics.	Ch. 9–11
SLO 5	Integrate chapter concepts into a cumulative, decision-ready evaluation of an enterprise's supply chain.	Ch. 1–12; Assignments 1–12

Course Schedule

A course schedule is included at the end of this syllabus.

Syllabus Subject to Change

I anticipate that we will follow the schedule I've outlined in this syllabus, but I may make adjustments based on what actually happens in class. I may also change the basis for the course grade (if I need to eliminate an assignment or something of that nature). If I do so, I will inform you in writing. Remaining in the course after reading this syllabus will signal that you accept the possibility of changes and responsibility for being aware of them.

Academic Integrity and Artificial Intelligence

Academic honesty is the foundation of the university community. Cheating, plagiarism, or other acts of academic dishonesty compromises the integrity of the academic process and community and are subject to disciplinary action. For this class, plagiarism will result in automatic failure (final course grade of F).

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 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.

References:

13.99.99. R0.03 Undergraduate Academic Dishonesty 13.99.99.R0.10 Graduate Student Academic Dishonesty

Accessibility and Reasonable Accommodations

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:

Student Disability Resources & Services East Texas A&M University Library Room 162 Phone (903) 886-5150 or (903) 886-5835 Fax (903) 468-8148

Campus Concealed Carry

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 East Texas A&M University Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to: ([Students/34.06.02.R1.pdf](#)) 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.

Standards of Conduct

All students enrolled at the university shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment (See current Student Handbook).

University Nondiscrimination Statement

East Texas A&M 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.

Attendance

For more information about the attendance policy please visit the Attendance webpage and Procedure 13.99.99.R0.01.

Course Expectations

To support a productive learning environment, students are expected to meet the standards outlined below:

Professional Communication & Conduct:

Maintain a professional tone in email, D2L communication, weekly assignments, and other course interactions. Communication should be constructive, respectful, clear, and appropriate for the workplace.

Attendance & Participation:

Log into MyLeoOnline consistently and keep up with readings, chapter quizzes, weekly assignments, and exams. Regular engagement is essential because the online format requires self-management and initiative.

Schedule Adjustments:

While the class schedule is designed to remain consistent, adjustments may be necessary. Any changes will be communicated through D2L and via your university email. Students are responsible for reviewing messages and staying informed of updates.

Email Expectations:

Check your East Texas A&M University email frequently, as it is the primary method of communication outside of D2L. I typically review messages multiple times throughout the day and strive to respond within 24 hours. If additional time is needed to address your question or concern, I will acknowledge receipt while working toward a full response.

Coursework and Submission Policies

Format & Naming Convention:

Name files using LastnameFirstname and the deliverable name (example: SheetsKassie_CaseStudy1.docx). Submit only Word, Excel, PowerPoint, or PDF files through D2L. Files in other formats will be returned. All submissions must be in English.

All graded work must be complete and submitted by the stated deadline to receive credit. Requirements and deadlines appear in the course calendar and D2L. Plan ahead and submit early when possible. Unless otherwise stated, work is due by 11:59 p.m. Central Time on the listed date. Late work is not accepted.

Submitted work must be professionally formatted, clearly written, and free of spelling and grammatical errors. Analytical work must be traceable: show calculations, formulas, assumptions, and source data rather than reporting unsupported results.

Late Policy: Late work is not accepted. Work submitted after the deadline will receive a zero.

Missed or Late Work: Exceptions are considered only with university-approved documentation submitted before the deadline. There are no make-up opportunities for poor performance.

Grading

Graded Component	Weight
Chapter Quizzes (12)	10%
Weekly Chapter Assignments (12)	50%
Multiple-Choice Midterm Exam (Ch. 1–6)	20%
Comprehensive Multiple-Choice Final Exam (Ch. 1–12)	20%
Total	100%

Assessment Expectations

Chapter Quizzes: Complete one auto-graded quiz for each of the 12 chapters. Quizzes assess comprehension of courseware concepts and must be completed individually by the deadline posted in D2L.

Weekly Chapter Assignments

Assignment	Chapter Topic	Required Analysis	Primary Deliverable
1	Strategic SCM Foundations	Define SCM; explain inherent trade-offs; identify real-world examples and design influences	Foundational responses
2	Enterprise Strategy	Porter's Five Forces, competitive strategy, and priority supply chain attributes	Selected-enterprise strategy analysis
3	Network Design	Suppliers, production, logistics, end-consumer delivery, product life cycle, and network trade-offs	Supply chain network evaluation
4	Network Management	Planning assumptions, replenishment, seasonality, bullwhip exposure, and management policies	Network-management recommendations
5	Manufacturing	Intellectual property, quality, cost, production impacts, and process improvements	Manufacturing/production evaluation
6	Data and Supply Chains	Five data elements, competitive uses, and effects on supply chain attributes	Data-use analysis
7	Enterprise Software	Process opportunity, appropriate software or ERP module, competitive benefit, and supply chain effects	Software recommendation
8	Performance Metrics	Five metrics, competitive relevance, key supply chain metric, and design implications	Performance-measure evaluation
9	Supply Chain Innovation	Two emerging technologies, industry effects, and required supply chain adaptations	Innovation impact analysis
10	Global Supply Chains	Global footprint, strategic rationale, design considerations, and improvement opportunities	Global-operations recommendations
11	Risk Management	Supplier and global risks, adverse outcomes, mitigations, trade-offs, and resiliency	Risk and resiliency recommendations

Assignment	Chapter Topic	Required Analysis	Primary Deliverable
12	Sustainability	Three sustainability considerations, design integration, recommendations, and trade-offs	Sustainability recommendations

Complete one individual assignment for every chapter. Chapter 1 establishes supply chain foundations and trade-offs. Beginning with Chapter 2, select one enterprise and continue evaluating that same enterprise through Chapter 12 so the weekly work develops into a connected analysis of its strategy and supply chain.

Enterprise Selection and Assignment Standards

- Enterprise selection: Choose a publicly traded company with substantial public information.
- Completeness: Use the posted chapter assignment document and answer every prompt directly. Preserve the prompt headings, follow stated sentence or list requirements, identify the selected enterprise where requested, and support claims with specific evidence rather than general description.
- Research and application: Cite external research in APA style and include a reference list. When an assignment requests metrics, comparisons, recommendations, or trade-offs, explain the evidence and reasoning supporting the response. Submit any supporting analysis requested in D2L.

Embedded case studies: The real-world case studies in the courseware are learning applications, not separate assignments. When a chapter assignment asks for case-study takeaways, include those responses within that chapter's weekly assignment. All assignments and exams are completed individually. There are no group projects or group presentations. The timed, multiple-choice midterm covers Chapters 1–6, and the timed, comprehensive multiple-choice final covers Chapters 1–12.

Fall 2026 Course Calendar

Date	Topic / Reading	Quiz or Exam	Weekly Assignment
8/20	Course orientation; Ch. 1 — Thinking Strategically About SCM	Quiz 1	Assignment 1 assigned — due 8/27
8/27	Ch. 2 — Enterprise Strategy	Quiz 2	Assignment 1 due; Assignment 2 assigned — due 9/3
9/3	Ch. 3 — Supply Chain Network Design	Quiz 3	Assignment 2 due; Assignment 3 assigned — due 9/10
9/10	Ch. 4 — Network Management	Quiz 4	Assignment 3 due; Assignment 4 assigned — due 9/17
9/17	Ch. 5 — Manufacturing	Quiz 5	Assignment 4 due; Assignment 5 assigned — due 9/24
9/24	Ch. 6 — Data and Supply Chains	Quiz 6	Assignment 5 due; Assignment 6 assigned — due 10/1
10/1	Ch. 1–6 review and analytics integration	Midterm opens	Assignment 6 due
10/8	Fall Break — no chapter covered	No quiz or exam due	No assignment due
10/15	Ch. 7 — Supply Chain Enterprise Software	Quiz 7; Midterm due	Assignment 7 assigned — due 10/22
10/22	Ch. 8 — Supply Chain Performance Metrics	Quiz 8	Assignment 7 due; Assignment 8 assigned — due 10/29

Date	Topic / Reading	Quiz or Exam	Weekly Assignment
10/29	Ch. 9 — Supply Chain Innovation	Quiz 9	Assignment 8 due; Assignment 9 assigned — due 11/5
11/5	Ch. 10 — Global Supply Chains	Quiz 10	Assignment 9 due; Assignment 10 assigned — due 11/12
11/12	Ch. 11 — Supply Chain Risk Management	Quiz 11	Assignment 10 due; Assignment 11 assigned — due 11/19
11/19	Ch. 12 — Supply Chain Sustainability	Quiz 12; Final opens	Assignment 11 due; Assignment 12 assigned — due 12/3
11/26	Thanksgiving Break — no chapter covered	No quiz or exam due	No assignment due
12/3	Comprehensive course assessment	Multiple-choice final due	Assignment 12 due