



Supply Chain Analytics

(SCM-432-01W)

Spring 2026

Course Information

Adjunct Instructor: Kassie Sheets

Office Hours: By Appointment- Zoom- 6:30- 8:30 PM CST Tuesday- Thursday

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Materials

Title: Supply Chain Analytics (2nd ed.)

Author: P.W. Robertson

ISBN: 9781040396070

Format: Physical or eBook

Course Description

This course develops practical analytical decision-making skills used in modern supply chain roles, with a focus on interpreting data and communicating recommendations in a leadership-ready format. Students work through realistic datasets to practice identifying operational patterns, comparing strategic trade-offs, and defending decisions related to supply, demand, transportation, and network design. Throughout the course, students will prepare short, professional memos, mirroring real workplace expectations, where data is used to support decisions without reliance on formula-driven optimization. Emphasis is placed on balancing cost, service, and readiness risk. The course concludes with an integrated memo recommending primary and fallback paths for a U.S. military program scenario.

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:

- **Interpret supply chain data** to identify operational patterns that inform strategic decisions.
- **Evaluate trade-offs among cost, service, and risk** using analytical reasoning to support recommendation quality.
- **Use analytical frameworks and performance metrics** to assess supplier, transportation, and network options.
- **Communicate decision-ready recommendations** in a professional memo format that reflects real organizational expectations.

Student Learning Outcomes (SLOs)

SLO	Student Learning Outcome	Primary Chapters
SLO 1	Interpret supply chain datasets to identify operational patterns and decision implications.	Ch. 1, 2
SLO 2	Evaluate supply, demand, and inventory dynamics using qualitative and quantitative indicators.	Ch. 3, 4
SLO 3	Recommend transportation and fulfillment decisions balancing cost, service, and readiness.	Ch. 5, 6
SLO 4	Assess supplier and network performance using comparative metrics and decision criteria.	Ch. 7, 8
SLO 5	Integrate analytical insights into a professional recommendation for leadership decision-making.	Ch. 9, 10

COURSE SCHEDULE:

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

SYLLABUS SUBJECT TO CHANGE STATEMENT:

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:

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

SPECIAL NEEDS/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 STATEMENT:

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.

TENETS OF COMMON BEHAVIOR STATEMENT:

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.

ETAMU 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 all interactions, including email, discussion boards, and other digital communication. Your written and verbal communication in this course should reflect the expectations of the workplace and should be constructive, respectful, and clear. When engaging in discussions, respond thoughtfully and acknowledge differing perspectives appropriately.

Attendance & Participation:

You are responsible for actively participating in the course by logging into MyLeoOnline consistently and keeping up with assigned readings, discussions, and coursework. Regular engagement is essential to your success, especially since 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.

ASSIGNMENTS:

Format & Naming Convention: Put your “LastnameFirstname” in the file name of all submitted documents. Example: “SheetsKassie_Assignment_1.docx”. All assignments should be submitted in D2L in MS Word, Excel, or PowerPoint or PDF format. Any assignment submitted in other formats will be returned. Assignments should be submitted in English.

All assignments must be fully completed and submitted by the stated due date and time to receive credit. Partial or incomplete work will not be accepted. Assignments are listed throughout the syllabus according to the course schedule, but you may begin work early if it fits your personal schedule. Plan ahead, manage your time, and submit work early when possible. All written assignments are **due by 11:59 PM Central Time** on the listed due date. Late work is not accepted.

Submitted work should be professionally formatted, clearly written, and free of spelling or grammatical errors. Students should be comfortable using basic word processing, spreadsheet, and presentation software, as well as common web tools needed for research and submission. Writing quality, including organization and attention to detail, will be reflected in your grade.

Late Policy: I will not accept late assignments. If you do not meet the deadline, you will receive a “0” for that assignment.

Make-up Exams or Late Assignments are only accepted if you obtain university approved documentation for your excuse before the due date. There are no make-up assignments for poor performance.

Grading & Assignments Chart

Assignments	Value
Weekly Analytics Assignments (Datasets 1-7)	30%
Discussions / Applied Reflections (Weeks 1-12)	20%
Final Project – Integrated Leadership Memo (Primary + Fallback)	50%

Final Exam

The final exam is a written, comprehensive assessment that evaluates your ability to **interpret supply chain data and communicate decision-ready recommendations**. You will be asked to think like an analyst supporting leadership by reviewing realistic scenarios, identifying key trade-offs, and explaining your recommendation using course concepts and provided datasets.

The exam is completed **individually** and submitted as a Microsoft Word document through D2L using the memo template. You may reference course content while completing the exam, but **all analysis, interpretation, and written communication must be your own work**.

The final exam covers material from across the semester, including supplier performance patterns, demand and inventory interpretation, total cost considerations, transportation mode and network decisions, and the balance of cost, service, and readiness risk. Responses are evaluated on:

- **clarity and strength of the recommendation**
- **appropriate use of course concepts and performance indicators**
- **interpretation of data and implications**
- **professional writing quality and memo formatting**

The final exam is worth **50 percent of your overall course grade**. Detailed instructions, expectations, and the scoring rubric are provided in the posted final exam packet.

SCM 432 COURSE ASSIGNMENTS

Week of (Monday's)	Topic/Readings	Date Due (Monday @ 11:59 CST)
1/12	Class Introduction – Review Syllabus	Applied Discussion 1 – Analytics Mindset & Your Experience- Due 2/1/2026
1/19	Ch. 1 – Foundations of Analytics	Assignment 1 – Supplier Data Cleanup- Due 1/25/2026
1/26	Ch. 2 – Analytical Thinking in Supply Chains	Assignment 2 – Demand Spike Interpretation- Due 2/1/2026
2/2	Ch. 3 – Demand, Variability & Multi-SKU Behavior	Assignment 3 – Forecast Interpretation- Due 2/8/2026
2/9	Ch. 4 – Hidden Cost Drivers & Decision Context	Applied Discussion 2 – Hidden Costs- Due 2/15/2026
2/16	Ch. 5 – Supplier Decision Metrics & Scorecards	Assignment 4 – Supplier Scorecard- Due 2/22/2026
2/23	Ch. 6 – Total Cost of Ownership & Trade-Off Logic	Assignment 5 – TCO Interpretation- Due 3/1/2026
3/2	Ch. 7 – Transportation Decisions for Readiness	Assignment 6 – Mode Selection Memo- Due 3/8/2026
3/9	Spring Break	Applied Discussion 3 – Risk Prioritization for Readiness- Due 3/15/2026
3/16	Ch. 8 – Network Design & Location Strategy	Assignment 7 – Network Location Memo- Due 3/22/2026
3/23	Ch. 9 – Integrated Trade-Off Thinking	Applied Discussion 4 – Negotiation and Analytics- Due 3/29/2026
3/30	Final Project Preparation – Scenario Review	Applied Discussion 5 – Final Project Risk Signals & Assumptions- Due 4/5/2026
4/6	Final Project Work Week	Draft Memo Upload (Optional)
4/13	Refinement & Peer Messaging	
4/20	Final Project Week	

4/27	Final Submission	Final Project – Integrated Leadership Memo (Primary + Fallback) – Due 4/30/2026
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