

Materials Requirement Planning (LMGT 1349)



**LAMAR INSTITUTE
OF TECHNOLOGY**

CREDIT

3 Semester Credit Hours (3 hours lecture, 0 hours lab)

MODE OF INSTRUCTION

Online

PREREQUISITE/CO-REQUISITE:

LMGT 1319 (Logistics Management)

COURSE DESCRIPTION

A study of materials requirement planning that includes net change versus regenerative systems, lot sizing, and the time sharing of dependent demand

COURSE OBJECTIVES

Upon completion of this course, the student will be able to:

- Employ the concept of net change
- Execute regenerative systems
- Construct lot sizing and time sharing of dependent demand items.

INSTRUCTOR CONTACT INFORMATION

Instructor:	Steven Joiner
Email:	scjoiner@lit.edu
Office Phone:	(409) 247-4995
Office Location:	T4 - 105
Office Hours:	MWF: 11:00-1:00 TR: 8:00-1:00 <i>*By appointment as needed</i>

REQUIRED TEXTBOOK AND MATERIALS

Jacobs, F. R., Vollmann, T. E., Berry, W. L., & Whybark, D. C. (2024). Manufacturing Planning and control for Supply Chain Management: The CPIM reference (3rd ed.). McGraw Hill. (ISBN: 9781265140489)

PARTICIPATION POLICY

This is a fully online class. Students are expected to access the course 3 times each week to maintain workload.

DROP POLICY

If you wish to drop a course, you are responsible for initiating and completing the drop process. If you stop coming to class and fail to drop the course, you will earn an "F" in the course.

Important Drop Dates

Last Day to Drop with Refund	9/9/2026
Last Day to Pay Tuition to Avoid Drop	9/21/2026
Last Day to Drop without Academic Penalty	9/25/2026
Last Day to Drop with Academic Penalty	10/30/2026

COURSE CALENDAR (Subject to Change if necessary)

DATE	TOPIC	READINGS	ASSIGNMENTS (Due on this Date)
Week 1 8/24-8/30	Syllabus/Introduction to Class	Syllabus	Introduce Yourself (8/31/2026)
Week 2 8/31-9/6	Manufacturing Planning and Control	Chapter 1	Chapter 1 Assignment & Ch. 1 Quiz
Week 3 9/7-9/13	Enterprise Resource Planning (ERP)	Chapter 2	Chapter 2 Assignment & Ch. 2 Quiz
Week 4 9/14-9/20	Demand Management	Chapter 3	Ch. 3 Quiz Test 1
Test	Test 1	Chapters 1-3	Test 1 (9/27/2026)
Week 5 9/21-9/27	Forecasting	Chapter 4	Chapter 4 Assignment & Ch. 4 Quiz
Week 6 9/28-10/4	Sales and Operations Planning	Chapter 5	Chapter 5 Assignment & Ch. 5 Quiz
Week 7 10/5-10/11	Master Production Scheduling	Chapter 7	Chapter 7 Assignment & Ch. 7 Quiz & Test 2
Test	Test 2	Chapter 4-7	Test 2 (10/25/2026)
Week 8 10/12-10/18	Material Requirement Planning	Chapter 8	Chapter 8 Assignment & Ch. 8 Quiz
Week 9 10/19-10/25	Capacity Planning and Management	Chapter 10	Chapter 10 Assignment & Ch. 10 Quiz
Week 10 10/26-11/1	Theory of Constraints and Advanced Scheduling	Chapter 12	Chapter 12 Assignment & Ch. 12 Quiz
Week 11 11/2-11/8	Just-In-Time	Chapter 13	Ch. 13 Quiz Test 3
Test	Test 3	Chapter 8-13	Test 3 (11/15/2026)
Week 12 11/9-11/15	Distribution Requirements Planning	Chapter 14	Chapter 14 Assignment & Ch. 14 Quiz
Week 13 11/16-11/22	Supply Chain Logistics	Chapter 15	Chapter 15 Assignment & Ch. 15 Quiz
Week 14 11/23-11/29	Order Point Inventory Control Methods	Chapter 16	Ch. 13 Quiz Test 4
THANKSGIVING BREAK (11/25-11/27)			
Test	Test 4	Chapter 14-16	Test 4 (11/29/2026)

Week 15 11/30-12/2	Review for Final Exam	All Chapters	Review for Final Exam
EXAM	FINAL EXAM	All Chapters	FINAL EXAM (12/9/2026)

COURSE EVALUATION

Final grades will be calculated according to the following criteria:

- Assignments 25%
- Chapter Quizzes 25%
- Tests (4) 30%
- Final Exam 20%

GRADE SCALE

- 90-100 A
- 80-89 B
- 70-79 C
- 60-69 D
- 0-59 F

TECHNICAL REQUIREMENTS

For the latest technical requirements, including hardware, compatible browsers, operating systems, etc., review the Minimum Computer and Equipment Requirements on the [LIT Online Experience](#) page. A functional broadband internet connection, such as DSL, cable, or Wi-Fi is necessary to maximize the use of online technology and resources.

DISABILITIES STATEMENT

The Americans with Disabilities Act of 1990 and Section 504 of the Rehabilitation Act of 1973 are federal anti-discrimination statutes that provide comprehensive civil rights for persons with disabilities. LIT provides reasonable accommodations as defined in the Rehabilitation Act of 1973, Section 504 and the Americans with Disabilities Act of 1990, to students with a diagnosed disability. The Special Populations Office is located in the Eagles' Nest Room 129 and helps foster a supportive and inclusive educational environment by maintaining partnerships with faculty and staff, as well as promoting awareness among all members of the Lamar Institute of Technology community. If you believe you have a disability requiring an accommodation, please contact the Special Populations Coordinator at (409)-951-5708 or email specialpopulations@lit.edu. You may also visit the online resource at [Special Populations - Lamar Institute of Technology \(lit.edu\)](#).

STUDENT CODE OF CONDUCT STATEMENT

It is the responsibility of all registered Lamar Institute of Technology students to access, read, understand and abide by all published policies, regulations, and procedures listed in the *LIT Catalog and Student Handbook*. The *LIT Catalog and Student Handbook* may be accessed at www.lit.edu. Please note that the online version of the *LIT Catalog and Student Handbook* supersedes all other versions of the same document.

ARTIFICIAL INTELLIGENCE STATEMENT

Lamar Institute of Technology (LIT) recognizes the recent advances in Artificial Intelligence (AI), such as ChatGPT, have changed the landscape of many career disciplines and will impact many students in and out of the classroom. To prepare students for their selected careers, LIT desires to guide students in the ethical use of these technologies and incorporate AI into classroom instruction and assignments appropriately. Appropriate use of these technologies is at the discretion of the instructor. Students are reminded that all submitted work must be their own original work unless otherwise specified. Students should contact their instructor with any questions as to the acceptable use of AI/ChatGPT in their courses

STARFISH

LIT utilizes an early alert system called Starfish. Throughout the semester, you may receive emails from Starfish regarding your course grades, attendance, or academic performance. Faculty members record student attendance, raise flags and kudos to express concern or give praise, and you can make an appointment with faculty and staff all through the Starfish home page. You can also login to Blackboard or MyLIT and click on the Starfish link to view academic alerts and detailed information. It is the responsibility of the student to pay attention to these emails and information in Starfish and consider taking the recommended actions. Starfish is used to help you be a successful student at LIT.

ADDITIONAL COURSE POLICIES/INFORMATION

1. Email is the preferred method of communication (tetrahan@lit.edu). Please do not use Blackboard Messages. I do not get a notification that you sent a message and may not see it for days. I will respond to emails within 48 hours except on weekends and holidays.
2. A grade of 'C' or better must be earned in this course for credit towards degree requirement.
3. All assignments are due on the dates indicated in Blackboard. Any late work will receive a thirty-point deduction. After a week, you will receive a zero.
4. Tests are assigned a due date and must be completed by that date. Tests will not be reactivated after the due date.
5. All assignments must be submitted via Blackboard unless specified by your instructor. Assignments submitted through any other method will receive a "0".
6. Grades for assignments may be accessed through Gradebook in Blackboard. Each assignment shows your grade and any grading comments made on your assignment.
7. All assignments must be turned in before the final exam.
8. Assignments should be graded within a week of the due date.