



Production Planning & Control

OSCM 3333 Fall 2020

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Textbook:

Manufacturing Planning and Control for Supply Chain Management, the CPIM Reference, by F. Robert Jacobs, William L. Berry, D. Clay Whybark, and Thomas E. Vollmann. McGraw Hill, Second Edition (ISBN 978-1-260-10838-5).

You can access the eBook in the following link (your computer has to be connected to the UTEP VPN):

https://www.accessengineeringlibrary.com/content/book/9781260108385?utm_source=navstem&utm_medium=email&utm_campaign=pp_us-rn-ace-fac-navstem&utm_content=fall20

Welcome to Production Planning and Control, the official information for this course, including grades, will be posted on Blackboard. You are responsible for reading the “Announcements”, “Assignments”, and any other information concerning this course; check your Blackboard account daily.

Course description (*From Goldmine*)

A study of the concepts, principles, problems, and procedures involved in managing inventories of raw materials, work-in-process, finished goods, and supplies. Some emphasis will be placed on the formulation and application of models for the analysis and replenishment of inventories. Implications for inventory management of material requirements planning and just in time systems will also be discussed.

Objectives:

At the completion of this course students will be able to:

1. Identify the global trends and challenges facing manufacturing planning & control.
2. Define enterprise resource planning and material requirements planning
3. Explain the basic principles of JIT programs.
4. Describe how to manage capacity and utilization.
5. Explain the implementation issues associated with production activity control.
6. Define the key design issues associated with supply chain optimization.
7. Define the key factors that determine the appropriate choice of an inventory system.
8. Describe the operations planning and scheduling process.

Prerequisite:

OSCM 3322 with a minimum grade of D, or may be taken concurrently; and QMB 3301 with a minimum grade of D.

Lectures

This is an asynchronous online course. It is expected that you complete the course activities as indicated in the course calendar. You should be available to complete them on time. Many problems will be solved using excel. You should be able to reply them and solve similar problems. **YOU NEED A COMPUTER RUNNING EXCEL FOR THIS CLASS.**

Partial Exam

This is an asynchronous online exam. It covers the class materials and chapters in the textbook taught up to the date of the last class before the exam. There is not make-up of any partial exam.

Final Exam

This is a final comprehensive asynchronous online exam covering all the class lecture materials and chapters in the textbook taught during the semester.

Grading Policy:

- 15 % First Partial Exam
- 20 % Second Partial Exam
- 20 % Third Partial Exam
- 20 % Final exam
- 25 % Homework

Course Assignments and Grading Distribution:

100-90 = A 89-80 = B 79-70 = C 69-60 = D 59 and below = F

Technology Requirements

Course content is delivered via the Internet through the Blackboard learning management system (LMS). Ensure your UTEP e-mail account is working and that you have access to the Web. You may use any of the primary Web browsers. When having technical difficulties, try switching to another browser.

If you encounter technical difficulties of any kind, contact the [Help Desk \(UTEP Library Room 300, TS.UTEP.EDU, 915-747-4357\)](#).

Netiquette

- Always consider audience. Remember that members of the class and the instructor will be reading any postings.
- Respect and courtesy must be provided to classmates and to instructor at all times. No harassment or inappropriate postings will be tolerated.
- When reacting to someone else's message, address the ideas, not the person. Post only what anyone would comfortably state in a F2F situation.
- Blackboard is not a public internet venue; all postings to it should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professor only. Please do not copy documents and paste them to a publicly accessible website, blog, or other space. If students wish to do so, they have the ethical obligation to first request the permission of the writer(s).

Late Work Policy

- Homework assignments will be due on Fridays at midnight (11:59 PM). No late work will be accepted.

Drop Policy

To drop this class, please contact the [Registrar's Office](#) to initiate the drop process. If you cannot complete this course for whatever reason, please contact me. If you do not, you are at risk of receiving an "F" for the course.

Accommodations Policy

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the [UTEP Center for Accommodations and Support Services](#).

Scholastic Integrity

Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion. Cheating may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports. Plagiarism occurs when someone intentionally or knowingly represents the words or ideas of another as ones' own. Collusion involves collaborating with another person to commit any academically dishonest act. Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. All suspected violations of academic integrity at The University of Texas at El Paso must be reported to the [Office of Student Conduct and Conflict Resolution \(OSCCR\)](#) for possible disciplinary action. To learn more [HOOP: Student Conduct and Discipline](#).

Student Resources

UTEP provides a variety of student services and support:

- [UTEP Library](#): Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- [Help Desk](#): Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus.
- [Math Tutoring Center \(MaRCS\)](#): Ask a tutor for help and explore other available math resources.
- [Military Student Success Center](#): UTEP welcomes military-affiliated students to its degree programs, and the Military Student Success Center and its dedicated staff (many of whom are veterans and students themselves) are here to help personnel in any branch of service to reach their educational goals.
- [RefWorks](#): A bibliographic citation tool; check out the RefWorks tutorial and Fact Sheet and Quick-Start Guide.

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Course Outline:

Week	Class Discussion	After Class Assignment / Due Date
1	Online Orientation Session Monday August 24 at 3:00 pm, via Blackboard Collaborate Ultra	
1 08/23-08/29	Manufacturing Planning and Control (Ch 1) Enterprise Resource Planning (Ch 2)	
2 08/30-09/05	Demand Management (Ch 3) Forecasting (Ch 4)	# 1 Due 09/11
3 09/06-09/12	Sales and Operations Planning (Ch 5) Advanced Sales and Operations Planning (Ch 6)	# 2 Due 09/18
4 09/13-09/19	Master Production Scheduling (Ch 7)	# 3 Due 09/25
5 09/20-09/26	First Partial Exam	
6 09/27-10/03	Material Requirements Planning (Ch 8)	# 4 Due 10/09
7 10/04-10/10	Distribution Requirements Planning (Ch 14)	# 5 Due 10/16
8 10/11-10/17	Capacity Planning and Management (Ch 10)	# 6 Due 10/23
9 10/18-10/24	Production Activity Control (Ch 11)	# 7 Due 10/30
10 10/25-10/31	Second Partial Exam	
11 11/01-11/07	Capacity Management (Ch 12)	# 8 Due 11/13
12 11/08-11/14	Advanced MRP (Ch 9)	#9 Due 11/20
13 11/15-11/21	Just-in-Time (Ch 13)	# 10 Due 11/27
14 11/22-11/28	Third Partial Exam	
15 11/29-12/05	Supply Chain Logistics (Ch 15)	
16 12/06-12/12	Comprehensive Final Exam	