



Production Planning & Control

OSCM 3333 Fall 2018

Instructor: Dr. José Humberto Ablanedo-Rosas

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Class Hours: TR 3:00-4:20 p.m. BUSN 321

Office Hours: W 12:00 – 1:00 p.m. & R 12:00 - 3:00 p.m.

Textbook:

Manufacturing Planning and Control, by F. Robert Jacobs, William L. Berry, D. Clay Whybark, and Thomas E. Vollmann. McGraw Hill, Sixth Edition (ISBN 978-0-07-337782-7).

Reference book:

<https://www.accessengineeringlibrary.com/browse/manufacturing-planning-and-control-for-supply-chain-management-the-cpim-reference-second-edition#c9781260108385ch01>

Welcome to Production Planning and Control, the official information for OSCM 3333 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

Important material from the textbook and some outside sources will be covered in class. You should plan to take careful notes. Discussion is encouraged about the topics being covered. PLEASE BRING A COMPUTER RUNNING EXCEL TO CLASS.

Partial Exam

This is an in-class exam. It covers the class materials and chapters in the textbook taught up to the date of the last class before the exam. The maximum completion time is 80 minutes. There is not make-up of any partial exam.

Final Exam

This is a final comprehensive exam covering all the class lecture materials and chapters in the textbook taught during the semester. The maximum completion time is two hours.

Grading Policy:

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

There are no curves, bonus points, extra credit, etc. The final numerical grade is not rounded up, for example, 89.99 is not rounded up and since $89.99 < 90$ the corresponding final grade is “B”.

- A numerical grade ≥ 90
- B $80 \leq$ numerical grade < 90
- C $70 \leq$ numerical grade < 80
- D $60 \leq$ numerical grade < 70
- F numerical grade < 60

COURSE POLICIES

1. Academic Integrity

Cheating is unethical and not acceptable. Plagiarism is using information or original wording in a paper without giving credit to the source of that information or wording: it is also not acceptable. Do not submit work under your name that you did not do yourself. You may not submit work for this class that you did for another class. If you are found to be cheating or plagiarizing, you will be subject to disciplinary action, per UTEP catalog policy. Refer to <http://www.utep.edu/dos/acadintg.htm> for further information.

2. Missed Classes

You are expected to come to class, pay attention, and take good notes. If you miss the class, it is your responsibility to obtain notes from your classmates and complete the corresponding assignments.

3. Homework

Please notice that you should complete homework on Blackboard. Homework cannot be done after its due date, if you expect to miss class, be sure you will be able to do the homework before its due date.

4. Exams

Exams are basically from material discussed in the class. You are responsible to bring a calculator to the exam as you need to solve quantitative questions. A missed exam will result in a score of 0 (zero) for that exam, and **THERE ARE NO MAKEUP EXAMS**. Please note the final exam will be comprehensive covering all materials in the class. Graded exams will be returned during the following class. Do not discard them once you have looked at them – they may come handy if there is a discrepancy later on.

5. Need for Assistance

If you have a disability and need classroom accommodations, please contact The Center for Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit their office located in UTEP Union East, Room 106. For additional information, please visit the CASS website at www.sa.utep.edu/cass.

6. Student Responsibility

Individual students must operate with integrity in their dealings with faculty and other students; engage the learning materials with appropriate attention and dedication; maintain their engagement when challenged by difficult learning activities; contribute to the learning of others; and perform to standards set by the faculty.

Note: This is a tentative syllabus and the instructor reserves the right to make appropriate changes.

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Course Outline:

Lecture	Class Discussion	After Class Assignment
1 (Aug 28)	Manufacturing Planning and Control (Ch 1)	
2 (Aug 30)	Demand Management (Ch 2)	
3 (Sep 4)	Sales and Operations Planning (Ch 4)	# 1
4 (Sep 6)	Enterprise Resource Planning (Ch 1A)	
5 (Sep 11)	Advanced Sales and Operations Planning (Ch 4A)	
6 (Sep 13)	Advanced Sales and Operations Planning (Ch 4A)	# 2
7 (Sep 18)	Master Production Scheduling (Ch 5)	
8 (Sep 20)	Master Production Scheduling (Ch 5)	# 3
9 (Sep 25)	Material Requirements Planning (Ch 6)	
10 (Sep 27)	First Partial Exam	
11 (Oct 2)	Material Requirements Planning (Ch 6)	# 4
12 (Oct 4)	Distribution Requirements Planning (Ch 10)	
13 (Oct 9)	Distribution Requirements Planning (Ch 10)	# 5
14 (Oct 11)	Capacity Planning and Management (Ch 7)	
15 (Oct 16)	Capacity Planning and Management (Ch 7)	# 6
16 (Oct 18)	Production Activity Control (Ch 8)	
17 (Oct 23)	Production Activity Control (Ch 8)	# 7
18 (Oct 25)	Second Partial Exam	
19 (Oct 30)	Advanced Scheduling (Ch 8A)	
20 (Nov 1)	Advanced Scheduling (Ch 8A)	
21 (Nov 6)	Advanced Scheduling (Ch 8A)	# 8
22 (Nov 8)	Advanced MRP (Ch 6A)	
23 (Nov 13)	Advanced MRP (Ch 6A)	
24 (Nov 15)	Advanced MRP (Ch 6A)	# 9
25 (Nov 20)	Just-in-Time (Ch 9)	
26 (Nov 27)	Just-in-Time (Ch 9)	# 10
27 (Nov 29)	Third Partial Exam	
28 (Dec 4)	Management of Supply Chain Logistics (Ch 10A)	
29 (Dec 6)	Management of Supply Chain Logistics (Ch 10A)	
(Dec 13)	Final Examination (Comprehensive) 4:00 pm-6:45 pm	