

**MANAGEMENT 4820-001 - MANUFACTURING PLANNING AND CONTROL  
FALL 2015**

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| <b>Instructor:</b> Dr. Divesh Ojha<br><b>Office:</b> BLB 385C<br><b>Telephone:</b> 940-565-2862<br><b>E-Mail:</b> Use <a href="#"><u>Blackboard Learn e-mail</u></a> only<br><b>FAX#:</b> 940-565-4394 | <b>Class Room:</b> BLB 005<br><b>Class Time:</b> Th 6:30 PM-9:20 PM<br><b>Office Hrs:</b> Tu, Wed 5:30 PM-7:00 PM<br>or by appointment. |
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**Text:** Jacobs, F.R., Berry, W.L., Whybark, D.C., and Vollman, T.E., Manufacturing Planning and Control For Supply Chain Management, Sixth Edition, McGraw-Hill Irwin, 2011 (Sixth Edition).

Additional Readings may be assigned to various topics throughout the semester.

**MGMT 4820 – Manufacturing Planning and Control for Supply Chain Management:** 3hrs.  
In-depth coverage of the function of production planning and control, including such topics as forecasting, materials requirements planning, capacity planning, master production scheduling, forecasting, production activity planning, and control and project management. Prerequisites(s): MGMT 3830.

**Course Objectives:**

- 1.) To introduce the student to a broad array of topics that fall under the umbrella of manufacturing planning and control; this includes an exposure to the terminology, concepts, principles, etc. associated with the area.
- 2.) To develop a basic understanding of traditional planning techniques used by tactical and operational managers in real world organizations.
- 3.) To introduce students to new approaches for planning and control.

**Grading:**

|                                                      |                         |
|------------------------------------------------------|-------------------------|
| Exam 1                                               | 25.0%                   |
| Exam 2                                               | 25.0%                   |
| Exam 3                                               | 30.0%                   |
| In class Group Assignment Problems                   | 10.0%                   |
| Attendance/Tardiness,<br>Class Participation & Misc. | <u>10.0%</u><br>100.0 % |

**Exams:** There will be three examinations each may consist of problems, short answer questions, matching, essay questions, and/or multiple choice. Exams will come from class

lectures and discussions, assigned readings, and other materials covered in the course (overhead slides, hand-outs, readings, cases, videos, etc.). There will be no make-up exams except as indicated in UNT policy on *Authorized Absences* and *Absence for Religious Hoildays* in the Undergraduate Catalog, e.g., prior arrangements have been made with the instructor or there is documented evidence of an emergency creating the absence. Exams are not cumulative. \*The final will not be given prior to the scheduled time.

**In-class Group Assignment Problems:** Problems will be assigned for various topic areas throughout the semester. The assignments involve completion and submission of a hard copy of the solutions by all groups at the end of class. Students may be asked to explain problems using the white board.

**Attendance/Tardiness, Class Participation & Misc. Assignments:** Attendance is expected in the same manner as employees are expected to be on the job. If a student misses three classes or any part of the class without prior notification or if there is no documented evidence of an emergency, this constitutes grounds for loss of all attendance/tardiness, class participation & misc. assignments points.

Business communication is important. If a student has planned business activities, i.e., interviews, personal business, etc., and he/she is concerned about loss of all attendance/tardiness, class participation and misc. assignments grade, prior communication of planned absence/tardiness will be considered for the three miss rule. The prior communication should take the form of a type written memo, E-mail, fax, etc. indicating the planned absence or tardiness.

Class participation will add to the quality of the class; consequently, students are expected to read all assigned materials prior to class and raise questions about the material presented in lectures. Volunteering related information (e.g., comments pertaining to experience, recent newspaper articles, etc.) will also add to the quality of the class. Each student should be sufficiently prepared to the extent that he or she could lead the class in a discussion about the chapter.

Points will be awarded for both individual contribution (discussion in class and presentation of solutions to class) and attendance. Misc. assignments may be assigned to provide an additional learning perspective about a course topic.

**NOTE:** Chapters should be read at least once before class and at least twice and probably three times (conceptual and examples) before tests.

## **STUDENTS WITH DISABILITIES:**

**THE COLLEGE OF BUSINESS ADMINISTRATION COMPLIES WITH THE AMERICANS WITH DISABILITIES ACT IN MAKING REASONABLE ACCOMMODATION FOR QUALIFIED STUDENTS WITH DISABILITY.**

**IF YOU HAVE AN ESTABLISHED DISABILITY AS DEFINED IN THE AMERICANS WITH DISABILITIES ACT AND WOULD LIKE TO REQUEST ACCOMMODATION, PLEASE SEE ME AS SOON AS POSSIBLE. MY OFFICE HOURS AND OFFICE NUMBER ARE SHOWN ON THIS SYLLABUS.**

## **ACADEMIC DISHONESTY:**

**If you engage in academic dishonesty related to this class, you will receive a failing grade on the test or assignment, and a failing grade in the course. In addition, the case will be referred to the Dean of Students for appropriate disciplinary action.**

**Academic dishonesty includes cheating and plagiarism.**

**The term "cheating" includes, but not limited to, (1) use of any unauthorized assistance in taking quizzes, tests, or examinations; (2) dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or (3) the acquisition, without permission, of tests of other academic material belonging to a faculty member or staff of the university.**

**The term "plagiarism" includes, but not limited to, the use, by paraphrase or direct quotation, of the published or unpublished work of another person without full and clear acknowledgment. It also includes the unacknowledged use of materials prepared by another person or agency in the selling of term papers or other academic materials. (Source: Code of Conduct and Discipline at the University of North Texas.)**

## **STUDENT EVALUATION OF TEACHING EFFECTIVENESS (SETE)**

**Purpose:** The SETE's purpose is to provide a measure of teaching effectiveness as perceived by students. It is a requirement for all organized classes at UNT. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students and consider the SETE to be an integral part of your participation in this class.

**Access:** Students may access the SETE at <https://sete.unt.edu> or at <https://my.unt.edu> and selecting the SETE banner.

## TENTATIVE READING SCHEDULE

| Date/Day                     | Chapter Number                             | Chapter Name                       |
|------------------------------|--------------------------------------------|------------------------------------|
| Thursday, August 27, 2015    | Syllabus distribution/Group formation etc. | -----                              |
|                              | Chapter 1                                  | Manufacturing Planning and Control |
| Thursday, September 03, 2015 | Chapter 1A                                 | Enterprise Resource Planning (ERP) |
|                              | Chapter 2                                  | Demand Management                  |
| Thursday, September 10, 2015 | Chapter 4                                  | Sales and Operations Planning      |
| Thursday, September 17, 2015 | Chapter 4                                  | Sales and Operations Planning      |
|                              | Chapter 5                                  | Master Production Scheduling       |
| Thursday, September 24, 2015 | Chapter 5                                  | Master Production Scheduling       |
| Thursday, October 01, 2015   | <b>EXAM # 1</b>                            |                                    |
| Thursday, October 08, 2015   | Chapter 6                                  | Material Requirements Planning     |
| Thursday, October 15, 2015   | Chapter 6A                                 | Advanced Concepts in MRP           |
| Thursday, October 22, 2015   | Chapter 7                                  | Capacity Planning and Management   |
| Thursday, October 29, 2015   | Chapter 7                                  | Capacity Planning and Management   |
| Thursday, November 05, 2015  | <b>EXAM # 2</b>                            |                                    |
| Thursday, November 12, 2015  | Chapter 8                                  | Production Activity Control        |
| Thursday, November 19, 2015  | Chapter 8A                                 | Advanced Scheduling                |
|                              | Chapter 10                                 | Distribution Requirements Planning |
| Thursday, November 26, 2015  | <b>Thanksgiving Break</b>                  |                                    |
| Thursday, December 03, 2015  | Chapter 10                                 | Distribution Requirements Planning |
| Thursday, December 10, 2015  | <b>FINAL EXAM (6:30 PM to 8:30 PM)</b>     |                                    |