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Fall 2015

ENME 2785

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University of New Orleans

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ENME 2785
INTRODUCTION TO MANUFACTURING
Fall 2015

CATALOG DESCRIPTION

ENME 2785 – 001 Introduction to Manufacturing 3 cr.
An introduction to manufacturing methods, including casting, forming, powder metallurgy, machining, and joining, in the context of designing for manufacturing.

PREREQUISITES

ENME 1781 and ENME 2740. If you do not have the prerequisites for this course, I will not grade any of your submitted work and you will receive a grade of F.

TEXTBOOK

Degarmo's Materials & Processes in Manufacturing (W/Binding Access) (11th Edition, 2011) by J. T. Black and R. A. Kohser
ISBN-13: 978-0470924679, John Wiley & Sons, Inc.

STUDENT LEARNING OBJECTIVES

After successfully completing this course each student will be able to:

1. Identify and describe the workings of different manufacturing processes (including casting, forging, extruding, rolling, machining, etc.).
2. Choose an optimum manufacturing process for a given component or structure.
3. Design for manufacture, cost, and assembly.
4. Identify and describe the workings of current computer integrated manufacturing techniques.
5. Understand the workings and manufacturing processes involved in the making of everyday things.

COURSE TOPICS

1. Introduction to Manufacturing Processes
2. Casting Processes
3. Forming Processes
4. Machining Processes
5. Joining Processes
6. Design for Manufacturing

CLASS SCHEDULE

Class Meetings: EN 321, TuTh 9:30 AM – 10:45 AM

INSTRUCTOR CONTACT INFO & OFFICE HOURS

Dr. Uttam K. Chakravarty, EN 922 Phone: 280-6191, Email: uchakrav@uno.edu
Office Hours: TuTh 8:55 AM – 9:25 AM, 10:50 AM – 12:20 PM, 1:50 PM – 2:50 PM
Other times by appointment

CRITERIA FOR GRADING, GRADING STANDARDS

Homework (10% of the final grade), pop quizzes (10% of the final grade), three in-class exams (3×20% = 60% of the final grade), one design project and two presentations (20% of the final grade).

Letter grades: ≥90% - A; 80-89% - B; 70-79% - C; 60-69% - D; <60% - F.

TENTATIVE DUE DATES FOR ASSIGNMENTS, EXAMS

Homework will be assigned regularly and due in the next class meeting.

First presentation: Tuesday, September 15, 2015

First in-class exam: Thursday, October 1, 2015

Second presentation: Tuesday, October 20, 2015

Second in-class exam: Thursday, November 5, 2015

Intralox tour: November 9 or 11, 2015 (Monday or Wednesday, 12:30 PM – 3:00 PM)

Third in-class exam: Thursday, December 3, 2015

IN-CLASS BEHAVIOR POLICY

- 1. There will be no disruptive talking in class.*
- 2. Cell phones must be turned off before class starts. If your cell phone rings you will be invited to leave and not come back. I cannot stand to be interrupted by cell phones!!*
- 3. Please come to class on time. If you are more than 10 minutes late then please don't disrupt the class by coming in. Get the notes from someone else who is in the class.*

ACADEMIC INTEGRITY

Academic integrity is fundamental to the process of learning and evaluating academic performance. Academic dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to, the following: cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Refer to the Student Code of Conduct for further information. The Code is available online at <http://www.studentaffairs.uno.edu>.

ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or to meet course requirements. Students with disabilities should contact the Office of Disability Services as well as their instructors to discuss their individual needs for accommodations. For more information, please go to <http://www.ods.uno.edu>.