Spring 2008

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Office hours posted on
my office door and lab
bulletin board, or other
times by appointment

Course Title: Engineering Drafting
Course Number: Industrial Technology 111, section 2
Course Credit: 3 Semester Hours
Class Meeting Time: 3:00 - 4:50 PM, Monday & Wednesday
Class Location: Lecture and Lab will meet in Room 220 Anzalone Hall

Course Description:
The basic elements of drafting: lettering, applied geometry, orthographic projection, sectioning, dimensioning, threads and fastener freehand sketching and CAD techniques.


Course Objectives:
1. Understand and converse in appropriate technical terminology.
2. Recognize, interpret and draw basic drafting problems.
3. Apply ANSI standard techniques and current practices to representative drafting problems.
4. Develop fundamental drafting skills and visualization concepts.
5. Develop a professional attitude for doing neat, orderly, accurate, legible drawings quickly.
6. Work individually and collectively to solve engineering drafting problems.
7. Comprehend general projection theory, with emphasis on orthographic projection to represent three-dimensional objects in two-dimensional views.
8. Dimension and annotate two-dimensional engineering drawings.
9. Understand the application of industry standards and best practices applied in engineering graphics.
10. Emphasize freehand sketching to aid in the visualization process and to efficiently communicate ideas graphically.
11. Introduce CAD software for the creation of 3D models and 2D engineering drawings.
**Course Requirements:** The student should:
1. read assigned sections in the text and be prepared for class.
2. attend class, arrive on time and sit in designated seat.
3. become involved in the class and participate in discussions.
4. devote necessary time to complete assigned work
5. complete all work in a professional manner.
6. be prepared for unannounced quizzes.
7. adequately study for tests and the final exam.
8. provide the required drafting equipment.
9. keep back-up copies of all assignments on Net Storage
10. follow lab rules & guidelines

**CAD Applications Lab Computer Use Guidelines**
1. Back up your work often
2. Label and remove your flash drive/diskette
3. Clean the desk and your work area before your leave.
4. DO NOT save anything to the hard drive or desktop, it will be automatically deleted.
5. DO NOT reconfigure the computer settings (screen savers, etc.)
6. Use plot preview before printing
7. DO NOT “surf” inappropriate internet sites
8. Downloading of music, games, software, etc. is strictly prohibited.
9. Plot Power Point presentations 6 per page – not full size
10. Do not turn off computers, except at the end of the day.
11. Return everything to its’ proper place
12. Report broken or damaged equipment immediately.
13. At the log-in screen, press enter (DO NOT change user name)

**Special Provisions:**
If you are a qualified student with a disability seeking accommodations under the Americans with Disabilities Act, you are required to self-identify with the Office of Disability Services, Room 203, Student Union. No accommodations will be granted without documentation from the office of Disability Services.

**Attendance Policy:**
This is an interactive class, much of the material presented will be drawn from a variety of current sources, therefore your presence for the entire class is essential. The classes are one hour and 50 minutes long and you are expected to be present the entire time. Arriving late and leaving early are unacceptable. Attendance will be taken daily, and you will be marked absent if not in attendance for the full class. You are responsible for dropping this class, if so desire -- you will not be automatically dropped for not attending class!

**Policy on Make-Up Work:**
A student with an unexcused absence may not make up work missed. A grade of zero will be recorded for work missed during the absence period. A student with an excused absence has one (1) week after returning to class to make-up work missed and earn full credit.
Classroom Decorum:
Please do not walk in and out of the class during lectures. If you arrive late, enter by the rear door and be seated as discreetly as possible.

Free discussion, inquiry and expression is encouraged in this class. The experiences of all students can be beneficial if they can be intertwined within the course content. However, classroom behavior that interferes with either a) the instructor's ability to conduct the class or b) the ability of students to benefit from the instruction is not acceptable. Examples may include: routinely entering class late or leaving early; use of pagers, cellular telephones or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as “crossing the civility line.” The classroom is not a place for children, therefore do not bring them to class with you.

Class Work:
You will not be able to complete all assigned work during class time. You should plan to spend about 1-1½ hours outside of class for each hour of class. I caution each of you not to “fall behind schedule” on your drawings; it is imperative that drawings be submitted on time — no extensions! Late work will have one letter grade deducted for each class that the work is late.

The Tech Fee drafting lab in room 216 Anzalone is open approximately 20 hours per week (consult the schedule on the door for open hours).

Academic Honesty:
Students are expected to maintain the highest standards of academic honesty. Behavior that violates these standards are not acceptable. Cheating on or communicating with other students during examinations, plagiarism, improper acknowledgment of sources in essays, attempting to benefit from the work of other students, or the use of a single essay or paper in more than one course without permission are considered very serious offenses and shall be grounds for disciplinary action as outlined in the current General Catalog.

Students agree, that by taking this course, all papers submitted may be subject to electronic plagiarism detection using Turnitin.com. All papers will be included as source documents in the Turnitin.com database for the purpose of detecting plagiarism of such.

Evaluation & Assessment:
The final letter-grade you receive in this course is my verification or assessment of the degree of functional mastery you have achieved.

Your Job
Demonstrate (to me) that you have a functional mastery of the facts and concepts of this course by actively participating in class discussions and activities; asking and answering questions asked of you; being prepared for class; completing all assignments on time in a professional manner; studying for and doing well on all quizzes, tests and assignments.

My Job
To provide you opportunities to demonstrate your functional mastery of the facts and concepts contained in this course, and based on your performance, assess your level of mastery.

It is my responsibility to: organize and present the material in ways that effectively communicate the facts and concepts, answer your questions (in and out of class), be available to clarify points of confusion and to challenge you, so you can stretch you limits of learning.
A - Demonstrated mastery of all the course concepts and information
B - Demonstrated mastery of most of the concepts and information
C - Demonstrated minimal mastery of concepts and key information
D - Demonstrated somewhat unacceptable level of mastery
F - Completely failed to demonstrate a grasp of the main course concepts and information.

Departmental Grading Scale:
93% - 100% = A
85% - 92% = B
77% - 84% = C
Below 69% = F

Equipment Provided by the Student:
1. Mechanical pencil
2. Jump drive
3. Notebook
4. Circle template
5. Binder/folder for notes, handouts & drawings

Important Dates:
January 22 . . . . . . . . First day of class Spring 2008
February 4-5. . . . . . . Mardi Gras Holiday (Monday & Tuesday)
February 6 . . . . . . . . Classes resume at noon
February 14. . . . . . . . Last day to withdraw or resign from the University
February 15 . . . . . . . . Last day to file for Spring 2008 Graduation & Summer 2008 without penalty
March 3 . . . . . . . . . . Advising begins for Early Registration
March 17-20 . . . . . . . Early Registration for Summer 2008
March 21-28 . . . . . . . Spring Break
Mar 31- Apr 4 . . . . . . Early Registration for Fall 2008
May 9 . . . . . . . . . . . . Last day of class
Friday, May 16th, 8:00 am - Final Exam

Course Outline:
I. Introduction
   A. Goals
   B. Expectations
   C. Learning/teaching Styles
II. Sketching
III. Getting started with CAD
IV. Fundamentals of 2D CAD
V. More Advanced CAD commands
VI. Orthographic projection
VII. Dimensioning
VIII. Section views
IX. Threads & fasteneners
X. Working drawings