ET105-1 Engineering Graphics Monday and Wednesday 8:00 am – 9:50 am &
ET105-3 Engineering Graphics Monday and Wednesday 10:00 am – 11:50 am
Fall 2016
3 credits
Prerequisite: None

Instructor: David Leonard
Office: N/A
Phone: (309) 298-1091
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Office Hours: Appointments contact me by email or leave a message with the ET Department Office.

Required Textbook

Special Course Costs:
Students of this course are required to pay a special course charge of _____ for each lab-related course in the Engineering Technology Department. This money is used to support the consumable items used during the course.
Payment of the course cost is a required portion of the class and must be paid after the second week of the semester but prior to your final exam. If you fail to pay your course cost, you will receive a grade of "I" for the course until the lab fee is paid or the university automatically changes the grade from "I" to "F" according to the University Policy. If the grade is changed to an "F", the grade will remain an F on your permanent transcript, regardless of payment.
Payments can be made to the Engineering Technology department office (Knoblauch Hall 135) any time after the beginning of the third week of classes. Also, for the convenience of the students, the instructor will announce one date that a staff member will visit the classroom to collect course charges en masse.
It is recommended that students pay by check made out to "WIU". Likewise, the student should expect a receipt to serve as proof of payment.
If you have questions or concerns, please direct them to the staff in Knoblauch Hall 135 or call 309/298-1091.
Course Catalog Description:
An introduction to drafting including shape description, geometric construction, orthographic and isometric drawing, sectioning, dimensioning, and applied descriptive geometry. Basic dimensioning, tolerancing, and pictorial drawings will be covered. An introduction to computer based drafting. Not open to students with credit for ENGR 105. 2 hrs. lect.; 2 hrs. lab. IAI: EGR 941; IND 911.

Department of Engineering Technology Goals for Student Learning
Engineering Technology (Construction Management, Graphic Communication, Manufacturing Engineering Technology) is a field of study designed to provide students educational programs that allow them to communicate effectively, design and apply technical solutions, use technology effectively, and respond to project management tasks in an environment with continually changing and sophisticated technology in an increasingly competitive global marketplace.

By graduation, Engineering Technology students should be able to:
1. Think critically and creatively;
2. Understand the theoretical principles of the profession;
3. Understand and apply relevant technology in the solution of technical problems;
4. Organize, manage, and maintain projects;
5. Develop an appreciation for ethical and professional practices;
6. Develop and refine oral, written, and visual communication skills; and
7. Demonstrate an overall competency in the program objectives.

Course Objectives:
By finishing the course, Students will be able to:
1. Understand field of engineering drawing and descriptive geometry, the graphical languages of industrial technology
2. Have knowledge of engineering geometry and its application in engineering design process.
3. Understand engineering visualization principle, projection theory, and their applications in engineering drawing
4. To develop a capability of both hand sketching and computer aided drawing in engineering area
5. To develop a skill of using proper engineering drawing techniques for adequate representation of engineering arts

Last Day to drop a class is the 10th week for a grade of W. After that week a total withdraw from the University is needed to receive a grade of W.

Course Requirements: Lab assignments will be graded and will consist of drawings produced using AutoCAD. Midterm and Final exams will be longer more complicated drawings also produced through AutoCAD.
COURSE OUTLINE assignments will be made in class. (Subject to change with ample notification.)

Chapter  Title
1. Introduction and AutoCAD Fundamentals
2. Geometric Constructions
3. Object Properties and Organization in AutoCAD
4. Orthographic Projections and Multiview Constructions
6. Dimensioning and Notes

Mid-Term Exam
8. Symmetrical Features in Designs
9. Auxiliary Views
10. Section Views
11. AutoCAD 2D Isometric Drawings
13. Working Drawings

Final Exam Wednesday December 9
Assignments are subject to change additional assignments may be made or assignments may be deleted. Do not work far ahead.

Drawings for CAD104 Fall 2015
Chapter 1 Exercises 1-3 and 5
Chapter 2 Exercises 1, 3, 6, & 7
Chapter 3 Discussion Topics
Chapter 4 Exercises 1, 3, 4, & 8
Chapter 6 Exercises 1-4
Chapter 8 Exercises 1, 3, 4, & 7

Midterm
Chapter 9 Exercises 1, 2, 5 & 6
Chapter 10 Exercises 1, 6 & 7 plus handout
Chapter 11 Exercise 2, 3 & 4
Chapter 13 Chapter walkthrough drawing and Exercise 1

Final Exam Section 1 12/12/2016 at 8 am; Section 3 12/12/2016 at 10 am

Student Evaluation:
All points will be cumulative and be totaled, ranked and graded according to the following scale:
A = 92-100  A- = 90-91
B+ = 88-89  B = 82-87  B- = 80-81
C+ = 78-79  C = 72-77  C- = 70-71
D+ = 68-69  D = 62-67  D- = 60-61
F 59 or lower

Students’ grade will depend upon: Approximate %
1. Homework/Lab assignment 40%
2. Mid-term and Final Exam/Project 55%
3. Quizes and Attendance

**STUDENT CONTRIBUTIONS**
The student is expected to attend all class sessions as well as all lab sessions. Any missed class or lab session must be made up (at the discretion of the instructor). The student is expected to study outside of the classroom as well as create the various lab assignments either on a computer in the Lab or at another computer of the student’s choice.

**Internet Use Policy**
College owned or operated computing resources are provided for use by students to support their academic pursuits. As such, students are expected to use these resources appropriately. Students are not to use class or lab time to play games, blog, IM, etc… since these activities may be disruptive or at least cause the student to not focus on the material presented in the class. Students will be verbally warned for a first offense, upon a second offense disciplinary action through the Department Chair, or the Dean will be pursued. Disciplinary action may lead to the removal from the course.

**Attendance Policy:**
All students are expected to attend each lecture session. Three consecutive class sessions missed or five total absences within the term may result in an immediate administrative withdrawal. Make-up will be required at the discretion of the instructor and finding out what was missed is the responsibility of the student. Students are expected to attend all laboratory sessions. Make-up will be required for all missed lab sessions.

**Rules for Giving an Incomplete**
WIU policy – A temporary symbol of I (Incomplete) for a course may be given only when a student, due to circumstances beyond his or her control, has been unable to complete the course requirements within the official limits of the term. The circumstances must be documented to the instructor’s satisfaction.

**Academic Integrity**

**Preamble**
Western Illinois University, like all communities, functions best when its members treat one another with honesty, fairness, respect, and trust. Students have rights and responsibilities (http://www.wiu.edu/provost/students/) and students should realize that deception for individual gain is an offense against the members of the entire community, and it is the student's responsibility to be informed and to abide by all University regulations and policies on Academic Integrity.

Plagiarism, cheating, and other forms of academic dishonesty constitute a serious violation of University conduct regulations. Students who engage in dishonesty in any form shall be charged with academic dishonesty.

It is a duty of faculty members to take measures to preserve and transmit the values of the academic community in the learning environment that they create for their students and in their own academic pursuits. To this end, they are expected to instill in their students a respect for integrity and a desire to behave honestly. They are also expected to take measures to discourage student academic dishonesty, to adjust grades appropriately if academic dishonesty is
encountered, and, when warranted, to recommend that additional administrative sanctions be considered. Grading policies are the exclusive prerogative of the faculty; administrative sanctions are under the authority of the Director of Student Judicial Programs. This document provides policies and procedures to be followed when academic dishonesty is encountered.

Definitions of Academic Dishonesty
The following definitions and examples are not meant to be exhaustive. The University reserves the right to determine, in a given instance, what action constitutes a violation of academic integrity. (See www.wiu.edu/policies/acintegrity.php for complete descriptions of the following topics:
1. Plagiarism
2. Fabrication and Falsification
3. Cheating
4. Complicity in Academic Dishonesty
5. Abuse of Academic Materials
6. Multiple Submissions

Reporting Academic Dishonesty
All members of the University community share the responsibility and authority to challenge and make known acts of apparent academic dishonesty. Any student, faculty member, or staff person who has witnessed an apparent act of student academic dishonesty, or has information that reasonably leads to the conclusion that such an act has occurred or has been attempted, has an ethical responsibility for reporting said act(s). Confronting and reporting academic dishonesty can be done in a variety of ways, and people should choose the manner most appropriate for the circumstances. Acts of apparent academic dishonesty that occur in the classroom should be reported directly to the course instructor, and/or the course instructor's Department Chair, and/or the instructor's College Dean. The Council on Admission, Graduation, and Academic Standards (CAGAS) or the Graduate Council will not accept or act upon anonymous reports, but will hold in strict confidence the identity of any person reporting a suspected instance of academic dishonesty, unless that person consents to having his/her identity revealed.

Access & Disabilities
“Students with disabilities:” In accordance with University values and disability law, students with disabilities may request academic accommodations where there are aspects of a course that result in barriers to inclusion or accurate assessment of achievement. To file an official request for disability-related accommodations, please contact the Disability Resource Center at 309-298-2512, disability@wiu.edu or in 143 Memorial Hall. Please notify the instructor as soon as possible to ensure that this course is accessible to you in a timely manner.

Resolution of Problems
Should a problem occur, students should speak to their instructor first. If the problem is not resolved, meet with the chair of the department. If the problem continues to be unresolved, go to the College of Business and Technology’s Dean.

Students should observe the following sequence for the resolution of problems: