EDG 1211
Engineering Graphics I
Course Syllabus

Professor: Gregory M. Conrey
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Course Description
This course is a broad introduction to mechanical design using Computer-Aided Design (CAD) tools and freehand sketching fundamentals. Emphasis is placed on a thorough understanding of projection principles and the visualization of exact space conditions relevant to 3D modeling. The concept of 3D problem solving techniques using CAD is stressed. There are no prerequisites for this course.

Procedures and Requirements
The course consists of lectures and laboratory sessions, with new subject areas covered through reading assignments, lectures, and demonstrations. Each lecture is followed by drawing assignments using the theory and principles of the subject areas. Students are required to attend the class during the assigned times. Open lab sessions scheduled throughout the week are also available for the student to complete assignments. These open labs are monitored and are available on a “first come, first served” basis. Students may use the graphics labs only to work on specific assignments from the MET department.

Attendance is expected and required during all class and lab periods. If you miss a class, it is your responsibility to get the assignments for that day and to have your homework turned in on time. Any student needing additional help should make an appointment with his/her professor. In addition, there are ample open lab sessions available for the student to complete assigned work.

ADA/504 Compliance
Students with disabilities who believe that they may need accommodations in this class are encouraged to contact either the ADA Compliance Officer for Students at 770-423-6443 or the ADA Compliance Officer for Facilities at 470-578-6224. For more information, go to kennesaw.edu/stu_dev/dsss.

Grading Policy
The course grade is broken down as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>Total Score</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawings</td>
<td>30%</td>
<td>90-100</td>
<td>A</td>
</tr>
<tr>
<td>Quizzes</td>
<td>20%</td>
<td>80-89</td>
<td>B</td>
</tr>
<tr>
<td>Midterm</td>
<td>25%</td>
<td>70-79</td>
<td>C</td>
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<tr>
<td>Final Exam</td>
<td>25%</td>
<td>60-69</td>
<td>D</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100%</td>
<td>Below 60</td>
<td>F</td>
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Drawings
All assigned drawings are to be turned in at the beginning of the class period on the announced due date. Any drawing turned in after the beginning of the class period will be considered late and will lose 5pts out of a possible 10pts. Drawings are graded on technical accuracy, layout, and professional appearance. One drawing grade will be dropped before the final grade is computed.

Quizzes
Quizzes are given without prior notice. They are based on the reading assignment for that day and previous lecture material. Quizzes are given at the beginning of the class period and cannot be made up. One quiz grade will be dropped before the final grade is computed.

Exams
A mid-term exam will be given. Also, a final exam or final project will be given or assigned. Each exam will be comprehensive and will include previous reading assignments, lectures, and drawings. There is a time limit on each exam. Exams can only be made up with a legitimate excuse and at the professor’s discretion. A grade of zero will be assigned to any missed exam. No exam will be dropped.

Student Conduct
Academic dishonesty and non-academic misconduct, in any form, is not tolerated in the classroom. This includes, but is not limited to, cheating, plagiarism, and disorderly conduct. Please refer to sections in the Undergraduate Catalog on Disruptive Behavior and Academic Dishonesty.

Course Outcomes
At the end of this course the student will be able to:
1. freehand letter consistent with the standards of engineering graphics.
2. read and use the architect’s, engineer’s, and metric scale.
3. create and manage CAD files.
4. apply geometric construction techniques to solve graphical problems.
5. properly create multi-view orthographic drawings by hand sketching and CAD.
6. properly apply and produce sectional views.
7. properly dimension and annotate engineering drawings per ANSI standards.

Course Outline
This outline covers the major concepts taught in this course. Your professor may apply these areas in a different order. Also, other subject areas may be added to the list. The number in parentheses is the approximate time, in days, spent on each subject.

1. Lettering
2. Scales
3. Multi-view Orthographic Projection
4. Introduction to CAD
5. Geometric Constructions
6. Sectional Views
7. Dimensioning
8. Assemblies
Equipment List


2. Drafting Kit
   a. 8.5" X 11" paper with light blue grids, either eight or ten grids per inch.
   b. Pencils - Good quality mechanical or #2
   c. White Vinyl Eraser
   d. Scales: Architect’s, Engineer’s, & Metric

5. Calculator with trigonometric functions

6. Flash Drive or other appropriate storage device