Course Title: Engineering Graphics
Date: January 18, 2005
Credit: 3 Semester Hours
Prerequisites: CIVL 2107 or equivalent
Course Meetings: Lecture: MW; 1:00 to 1:55 PM; ES 102
               Lab: M; 2:00 to 5:30 PM; ES 102
Instructors: Dr. Paul Palazolo; Office EN 110 C; 678-3275
             email: ppalazol@memphis.edu
Office Hours: “Open Door” or by appointment
CourseWeb: www.ce.memphis.edu/2308

COURSE DESCRIPTION
Development of the utilization of programming skills in the solution of engineering problems; utilization of engineering design graphics in the presentation of engineering information in the support of the design process

COURSE OBJECTIVES
1. To develop facility in the student in the design, development, and utilization of computer programs in Visual Basic within EXCEL in the solution of engineering problems
2. To develop the student’s ability to convey visual engineering information through the use of engineering graphics in support of the design process
3. To develop the ability of the student to integrate verbal, written, and visual communication components in the presentation of an engineering design
4. To continue to develop the engineering problem solving ability of the students
GRADING POLICY

The grade in the course is based on problem submissions (lab and lecture), quizzes, projects, a final exam, and performance tests. The relative weight for each grading component is as follows: Problem Submissions – 25%, Quizzes – 20%, Final Exam – 20%, Projects – 35%. The performance tests are weighted separately and are described below in detail.

Additional points may be awarded at the discretion of the instructor for involvement in student, departmental, and college wide activities.

The final grade for the class will be based on the following:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Class Average</th>
<th>Restriction</th>
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<tbody>
<tr>
<td>A</td>
<td>&gt;=90</td>
<td>No Grade Component &lt; 80</td>
</tr>
<tr>
<td>A-</td>
<td>&gt;=87</td>
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<tr>
<td>B+</td>
<td>&gt;=83</td>
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<tr>
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<tr>
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<tr>
<td>C+</td>
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<tr>
<td>F</td>
<td>&lt;63</td>
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All quizzes will be comprehensive.

Performance tests are assignments that are performed during a designated laboratory period and usually consist of a problem that can be completed within a short period of time (one hour or less) and that illustrate your knowledge and understanding of the concepts used in the class. There will be performance tests for both the graphical communication portion of the class and for the programming portion. The instructors evaluate performance tests as pass/fail. To receive a grade of C or better, the performance tests in both skills, programming and graphical communication, must be evaluated as passing.

Projects will consist of team or individual effort to achieve a goal within a set of constraints and will involve computational, design, and communication components.
PROBLEM SUBMISSIONS

Problem submissions will include both Visual Basic in EXCEL and AutoCAD assignments. Due dates will be given for all submissions. The submissions will be due at the beginning of the lab or lecture period on the due date per the instructors’ instructions. Submissions made after the beginning of the lecture or lab on the due date will be penalized. Submissions may be made within 24 hours of the due date for a 25% penalty. Submissions after the 24-hour period will not be accepted.

ABSENCES

If a student is absent from the lecture and he or she misses a problem submission and wishes to receive on-time credit for the work, he or she must submit a written reason for the absence and provide supporting documentation. The same policy holds for missing lab sessions. If a student fails to have an excused absence from a lab session, a penalty of 20% of the group’s grade on the current project or 30% of the current lab assignment will be assessed. All requests for excused absences will be evaluated by the instructor and may or may not be accepted. Without supporting documentation, the request is automatically denied. The final judgment will be up to the instructors. If the written submission is accepted, the work will be accepted late or a make-up assignment will be given. Human frailty is not an excusable absence.