Syllabus for BME, ECE, EVE, IDM, ISE, MAE 487, ECE 485
Engineering Design Exhibit I
Fall Semester 2015
Tuesday, Thursday 3:05PM
Room SEB 110

Instructors: Dr. Hodge Jenkins, Associate Professor
Department of Mechanical Engineering

Dr. James Wright, Adjunct Professor
Department of Mechanical Engineering

Dr. Jenkins
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Dr. Wright
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Textbooks and Supplies:
Required: None
Recommended: None

Web Sites: http://faculty.mercer.edu/jenkins_he/egr487fall2015.htm

Catalog Description:
Multi-disciplinary design projects with substantial specialty-specific content. Small groups design, build, and test realistic engineering systems under faculty supervision. Projects include safety, economic, environmental, and ethical considerations and require written and oral reports.

Course Objectives: Upon successful completion of this course, you should be able to do the following:
- Work in effectively in teams
- Determine realistic constraints
- Apply engineering skills to real problems
- Develop and evaluate solutions to complex problems
- Establish test plans
- Communicate effectively to technical and general audiences in both written and oral forms

Prerequisites:
BME, ECE, EVE, IDM, ISE, MAE 487, or ECE 485

Refer to your Guide for XXX 487/488 for all other course details.
Course Grading*

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Proposal</td>
<td>15%</td>
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<tr>
<td>Preliminary Design Review</td>
<td></td>
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<tr>
<td>Written</td>
<td>35%</td>
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<tr>
<td>Oral</td>
<td>15%</td>
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<tr>
<td>Professionalism and responsiveness to instructors, technical advisor, and fellow design team members</td>
<td>15%</td>
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<tr>
<td>Progress reports</td>
<td>5%</td>
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<tr>
<td>Journal article/patent reviews</td>
<td>5%</td>
</tr>
<tr>
<td>Test Plans</td>
<td>10%</td>
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<tr>
<td>Final Exam (peer/self evaluation). If not completed</td>
<td>-5%</td>
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Course Standards:

1. Assignments are due at the beginning of the class period on the date due. In an exceptional circumstance you may petition to hand in an assignment late. If granted, the grade will be reduced one letter grade per day late.

2. Attendance is required due to the large amount of in-class work and team activities we will be doing. You can’t “make up” experiential learning. Absences will result in grade penalties.

3. Grading encompasses every aspect of the course, from participation through final products. You can assume that every task requested directly or indirectly factors into your grade. For example, having your work prepared for your group is as important as having it ready for me. Regular feedback will be given on documents handed in.

4. You are encouraged to schedule a conference at any point that you need it.

5. Please turn off or mute cell phones and electronic communication before entering the classroom.

6. The honor code provisions as outlined in the Bulletin and in the student handbook, The Lair, will be assumed for everyone. It should be clear from class discussion which projects will be collaborative and which ones must be individual. When in doubt, please ask to avoid potentially embarrassing situations. Plagiarism is a violation of the honor code and is prohibited.

7. Students with a documented disability should inform the instructor at the close of the first class meeting. The instructor will refer you to the office of Student Support Services (SSS) for consultation regarding evaluation, documentation of your disability, and recommendations for accommodation, if needed. Students will receive from SSS the Faculty Accommodation Form. On this form SSS will identify reasonable accommodations for this class. The form must be given to the course instructor for signature and then returned to SSS.

   To take full advantage of disability services, it is recommended that students contact the Office of Student Support Services, immediately. The office is located on the third floor of the Connell Student Center.

8. This syllabus is subject to change.

Electronic Communication:

Electronic communication is an important adjunct to face-to-face communication, including from professor to students, students to professor, and students to students. You must have regular access to your e-mail. Students are required to use their Mercer assigned e-mail address for all electronic communication. Access to the Web and to the Internet is also integral to the class work. A number of laboratories on campus will provide access.