Syllabus for BME, ECE, EVE, IDM, ISE, MAE 488, ECE 486  
Engineering Design Exhibit II  
Spring Semester 2016  
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

**Office:**  
Dr. Jenkins: EGC 101-D  
Dr. Wright: By appointment only

**Phone:**  
478-301-2831 (w)  
770-474-3522 (h)

**Email:**  
jenkins_he@mercer.edu  
wright_jg@mercer.edu

**Textbooks and Supplies:**  
Required: None  
Recommended: None

**Web Sites:**  
http://faculty.mercer.edu/jenkins_he/egr488.htm

**Catalog Description:**  
Continuation of Engineering Design Exhibit I. 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 teams  
- Develop solutions to complex problems  
- Prototype design realizations  
- Develop and execute test plans  
- Analyze test results  
- 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>Activity</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress Reports/Presentations</td>
<td>10%</td>
</tr>
<tr>
<td>Critical Design Review</td>
<td></td>
</tr>
<tr>
<td>Written</td>
<td>40%</td>
</tr>
<tr>
<td>Oral</td>
<td>30%</td>
</tr>
<tr>
<td>Responsiveness to client, instructors, technical advisor, and fellow</td>
<td>15%</td>
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<tr>
<td>design team members</td>
<td></td>
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<tr>
<td>Poster for Engineering Expo</td>
<td>5%</td>
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<tr>
<td>Completed peer/self evaluation &amp; exit survey</td>
<td>0 to -5%</td>
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</tbody>
</table>

Present at ASEE-SE Conference or other

External Student Research Poster Competition +5% Bonus

Course Standards:

1. **Assignments are due at the beginning of the class period or at the time specified 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.** 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.**

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

5. Please turn off or silence cell phones 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.