Syllabus
Summer Internship - METBD495
Summer 2005

Instructor: Fred Nitterright
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AOL Instant Messenger Username: frednitter
Office Hours: No regular office hours during the summer semester.

Academic Credits: 3 - 6
Textbook: None
Required Supplies: As needed per job location.

Course Description:

The Bachelor of Science Mechanical Engineering Technology program at Behrend College offers a 3-6 credit internship course for those students entering their senior year in the major. The course is structured to provide students an opportunity to experience the job performance expectations placed on professionals within the modern industrial environment. This industrial work experience is very valuable and provides both the sponsoring company and the senior many benefits. The senior is expected to complete approximately 120 hours of engineering or engineering related tasks for completion of the proposed project(s), and is expected to perform this work during the summer months (for additional requirements see below).

This internship course is open to those METBD seniors who fulfill the prerequisites and have a minimum GPA of 3.0 in the major and a minimum overall GPA of 2.5. Normally the three credits earned for the internship course is applied to replacing METBD 490(3), the Senior Design Capstone course.

Course Prerequisites:

1. Student must have senior standing.
2. Course prerequisites must be fulfilled: METBD306, METBD320, METBD330, and METBD350.
3. A GPA of 3.0 or better must be maintained in METBD course work and a 2.5 overall GPA average must be maintained.

Course Requirements:

1. Obtain summer employment as an engineering intern.
2. Complete the Internship Agreement Form.
3. Complete 120 hours of engineering related tasks.
4. Attend a once per week online course discussion. For this requirement, the student will also need to have access to a computer with internet capabilities and use an online messenger application software.
5. Submit weekly emails to the faculty supervisor.
6. Complete quizzes, assignments, and required information as prescribed by the instructor.
7. Compose and submit a 10 - 12 page paper describing your internship experience.
8. Obtain the internship evaluation form from their employer and submit it to the faculty supervisor with your completed internship paper.
9. Register for METBD480 in the fall semester directly after your internship.

Course Objectives:
1. To develop the student's skills in the application of theory to practical work situations.
2. To aid the student in adjusting from college to full-time employment.
3. To provide students the opportunity to develop attitudes conducive to effective interpersonal relationships.
4. To provide students the opportunity to experience diversity in the workplace.
5. To develop employment records/references that will enhance future employment opportunities.
6. To provide students the opportunity to understand organizational interrelationships.
7. To develop the student's oral and written communication skills.
8. To develop the student's organizational skills and to develop the student's ability to prioritize tasks for the successful completion of projects.
9. To provide students an opportunity to understand their professional and ethical responsibilities as an engineer.
10. Introduce the environment of current-day practicing engineers.

Grade Distribution:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internship Paper</td>
<td>40%</td>
</tr>
<tr>
<td>Industrial Supervisor's Evaluation</td>
<td>30%</td>
</tr>
<tr>
<td>Participation, Emails, and Conduct</td>
<td>10%</td>
</tr>
<tr>
<td>Assignments</td>
<td>20%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
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Grade Distribution:

<table>
<thead>
<tr>
<th>Grade Range</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>93-100%</td>
<td>A</td>
</tr>
<tr>
<td>90-92%</td>
<td>A-</td>
</tr>
<tr>
<td>87-89%</td>
<td>B+</td>
</tr>
<tr>
<td>83-86%</td>
<td>B</td>
</tr>
<tr>
<td>80-82%</td>
<td>B-</td>
</tr>
<tr>
<td>77-79%</td>
<td>C+</td>
</tr>
<tr>
<td>70-76%</td>
<td>C</td>
</tr>
<tr>
<td>65-69%</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 65%</td>
<td>F</td>
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**NOTE:** A failing grade will be assigned if there is not significant proof in the internship paper and weekly emails that the intern completed engineering tasks consistent with the job description stated on the Internship Agreement Form. This criterion is independent of the final course percentage.
**Academic Integrity:** Penn State Erie puts a very high value on academic integrity, and violations are not tolerated. Academic integrity is one of Penn State's four principles to which all students must abide. This principle states: I will practice academic integrity. Academic integrity is a basic guiding principle for all academic activity at Penn State University, allowing the pursuit of scholarly activity in an open, honest, and responsible manner. In accordance with the University's Code of Conduct, I will practice integrity in regard to all academic assignments. I will not engage in or tolerate acts of falsification, misrepresentation, or deception because such acts of dishonesty violate the fundamental ethical principles of the University community and compromise the worth of work completed by others.

It is proper to share data, unless otherwise instructed, but it is not permitted to share calculations (i.e. results). It is a violation to share information about quizzes and exams between multiple course sections. If the student is confused to whether or not they are violating Penn State's academic integrity policy, they should not proceed without consulting with the instructor. Ignorance is not an acceptable excuse for an academic violation.

Any violation of academic integrity will receive academic and possibly disciplinary sanctions, including the possible awarding of an XF grade which is recorded on the transcript and states that failure of the course was due to an act of academic dishonesty. All acts of academic dishonesty are recorded so repeat offenders can be sanctioned accordingly.

More information on academic integrity can be found at: [http://www.pseries.psu.edu/faculty/academics/integrity.htm](http://www.pseries.psu.edu/faculty/academics/integrity.htm)