ENME 201 Careers in Mechanical Engineering
Spring 2015

Instructor: Dr. Ken Kiger
3129 Glenn L. Martin Hall (088)
kkiger@umd.edu
301-405-5245

Location:
Thursdays, 12:30-1:30, JMP 3201

Overview:
The intent of ENME201 is to have a dialog that will help you to frame the development of your future professional life, whether it be as a practicing engineering or one of the many fields for which an undergraduate degree in mechanical engineering can serve as a stepping stone. We will undertake this goal through a discussion of two questions:

1) What opportunities exist for you to contribute to society as an engineer with a career you find rewarding and engaging?

2) How can you reap maximum benefit from what our program and the university has to offer you to help prepare for that path?

This first of these questions on “opportunities in society” will be fueled by a series of presentations by the course instructors and guest speakers, followed by interactive discussions on the take-away messages with the class. From this, we will see the diversity of career opportunities available to you with a degree in Mechanical Engineering, as well as answer all-important questions concerning the necessary skills that determine a successful career, such as communication, leadership, trust/integrity and ethics.

The second question on “opportunities at the University” will be addressed through overview presentations of technical areas within the engineering discipline (given by faculty within the department), internships and co-ops, and opportunities to participate in a myriad of student-run projects and professional societies.

Assignments: Several short written and oral presentation assignments to individual students and small groups of students will be made throughout the semester.

In addition, you are required to attend 4 engineering community events outside of class, which can include invited talks or colloquia given in the department, career office, student organizations or research seminar series. These do not include regular meeting of student societies. You are required to document each event you wish to receive credit for by listing the title of the seminar or workshop, the name of the presenter, the date, the location, and obtain a signature of the organizer or speaker. Your 4 documented events must be turned in by the last day of class.

Grading: The course grades will be assigned as pass/no pass. A passing grade for the course will be assigned based on a combination of active and engaged participation and completion of the assignments at a passing level.
Active and engaged participation is essential for you to benefit substantially from the course. This includes attending the class, volunteering and contributing to discussions, making assigned presentations, and attending the required community events. The assignments will not be lengthy, but we do expect thought and introspection to be put into them, and to be delivered in a professional manner (neat, easy to follow). You are permitted two unexcused absences without penalty, but additional absences will result in a “no-pass” grade for the course.

Schedule:

<table>
<thead>
<tr>
<th>Date</th>
<th>Class activity</th>
<th>Notes</th>
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<tbody>
<tr>
<td>January 29</td>
<td>What do Mechanical Engineers do?</td>
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<tr>
<td>February 5</td>
<td>Student Organizations</td>
<td>EWB, ASME, BES, SHPE, etc.</td>
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<td>February 12</td>
<td>Preparing for the Career Fair &amp; How to find an Engineering Internship</td>
<td>Career Office</td>
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<td>February 19</td>
<td>Participate in Career Fair</td>
<td>No class</td>
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<td>February 26</td>
<td>Division speakers</td>
<td>EPS: Prof. Abhijit Dasgupta TFES: Prof. Jungho Kim (either date)</td>
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<td>March 5</td>
<td>Division speakers</td>
<td>DRS: Prof. SK Gupta M&amp;M: Prof. Sarah Bergbreiter</td>
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<tr>
<td>March 12</td>
<td>Guest speaker #1</td>
<td>Mark Sartain, VP of Nuclear Engineering, Dominion</td>
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<td>March 19</td>
<td>Spring Break</td>
<td>No Class</td>
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<td>March 26</td>
<td>Guest speaker #2</td>
<td>Ms ToniAnn Thomas, VP at Unisys Corp.</td>
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<td>April 2</td>
<td>Guest speaker #3</td>
<td>TBA</td>
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<td>April 9</td>
<td>Review discussion of speakers</td>
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<td>April 16</td>
<td>Guest speaker #4</td>
<td>Charlie Kilmain, Director of Drive Systems Design, Bell Helicopter</td>
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<td>April 23</td>
<td>Guest speaker #5</td>
<td>Fred Rosenberger, Associate at Miles &amp; Stockbridge (patent attorney)</td>
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<td>April 30</td>
<td>Review discussion of speakers</td>
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<td>May 7</td>
<td>Final discussion and review</td>
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Attached below is the preliminary list of corporate events that the Co-op Office is sponsoring during the Spring 2015. (There will be other events scheduled throughout the semester).

**Job Search 101: Finding an Internship/Co-op Position & Careers4Engineers**
- Tuesday, February 3, 2015
- 10:00 a.m., 1131B Martin Hall

**Interview Techniques Workshop**
- Tuesday, February 3, 2015
- 2:00 p.m., 1131B Martin Hall

**Resume Writing Workshop**
- Thursday, February 5, 2015
- 1:00 p.m., 1131B Martin Hall

**Career Fair Preparation Workshop**
- Thursday, February 5, 2015
- 2:00 p.m., 1131B Glenn L. Martin Hall

**Job Search 101 (F-1): Career Services for International Students**
- Monday, February 9, 2015
- 10:00 a.m., 1131B Glenn L. Martin Hall

**Resume Writing Workshop**
- Monday, February 9, 2015
- 11:00 a.m., 1131B Martin Hall

**Case Interview Workshop**
- Tuesday, February 10, 2015
- 5:00 p.m., 1105 Kim Engineering

**Career Fair Preparation Workshop**
- Wednesday, February 11, 2015
- 1:00 p.m., 1131B Glenn L. Martin Hall

**Job Search 101: Finding an Internship/Co-op Position & Careers4Engineers**
- Thursday, February 12, 2015
- 1:00 p.m., 1131B Martin Hall

**Job Search 201: Networking and Online Resources**
- Friday, February 13, 2015
- 10:00 a.m., 1131B Martin Hall

**Bioengineering Employer Networking Reception**
- Tuesday, February 17, 2015
- 1:00 p.m.-3:00 p.m., Kim Engineering Rotunda

**Resume Writing Workshop**
- Tuesday, February 17, 2015
- 2:00 p.m., 1131B Martin Hall

**Interview Techniques Workshop**
- Monday, February 23, 2015
- 10:00 a.m., 1131B Glenn L. Martin Hall

**Resume Writing Workshop**
- Monday, February 23, 2015
- 2:00 p.m., 1131B Martin Hall

**Evaluating Job Offers & Salary Negotiation**
- Tuesday, February 24, 2015
- 2:00 p.m., 1131B Martin Hall

**Job Search 101: Finding an Internship/Co-op Position & Careers4Engineers**
- Wednesday, February 25, 2015
- 2:00 p.m., 1131B Glenn L. Martin Hall

**Curriculum Vitae & Resumes for Ph.D. Students**
- Thursday, February 26, 2015
- 10:00 a.m., 1131B Martin Hall
Mark Sartain, 
mark.sartain@dom.com, VP Nuclear Engineering, Dominion (UMD BSME 1980)

Mark O'Clair, Engineering Manager, Northrup Grumman 
mark.oclair@gmail.com (410)765-5703, former student of Bala

Eric Compton, IP Counsel, ARL 
eric.b.compton@us.army.mil 301-394-1714

Fred Roseberger, 
fredrosenberger@gmail.com (IP law, BSME’99, MSME’01)