ENES 214-0101: Virtus Seminar IV
Spring 2015
Wednesdays, 4:00 – 5:15pm

Instructor Information
INSTRUCTORS: Lisa Krayer Tamara Fuller
OFFICE HOURS: Thursdays 1-6pm By Appointment
0110 Easton Hall
OFFICE PHONE: 301.405.6610 301.405.8308
EMAIL: lkrayer@umd.edu tamaraf@umd.edu
OFFICES: 1131 Martin Hall & 0110 Easton Hall

Course Description
This course is designed to assist you as you continue your path to becoming a successful and well-rounded engineer. You will be provided with information that will assist your success both personally, academically and professionally. This course will focus on:
1. Enhancing professional and personal development
2. Developing self-confidence and self-efficacy in academic and technical ability, and encouraging self-awareness
3. Identifying and employing strategies and skills for academic and professional success
4. Developing career commitment through networking, mentoring, and role models

Course Objectives
Virtus, specifically through this seminar, centers on the following learning outcomes. With successful completion of this course:
1. Students will expand upon their decision to major in engineering at UMD.
2. Students will enhance their understanding of the social relevance of engineering through research activities that apply classroom learning to social, environmental, and technical needs.
3. Students will improve skills essential to the study of engineering through practice in group processes and interpersonal communication.
4. Students will continue to increase their awareness of campus resources and support services.
5. Students will increase their awareness of issues related to diversity in the field of engineering by
   - Sharing stories and engaging in conversations with science and engineering role models regarding their personal experiences in academia and industry,
   - Exploring diversity and multiculturalism,
   - Examining their values regarding particular leadership related issues.
6. Students will synthesize and apply new knowledge and skills through directed self-reflection and group activities.

Course Policies
Participation
Active participation is highly valued. Students should let the instructor know beforehand if they expect to miss a class. If a class is missed, students should meet with instructor to discuss any missed material.

Missed/Late Assignments
Students are expected to turn in all assignments, journals, papers and projects at the beginning of class on the date due or it will be considered late. If you plan to miss a class, it is your responsibility to turn in the assignment before the class in person (i.e., during office hours). There will be a 10% point deduction from the assignment for each day it is late.


Academic Integrity
The University of Maryland has a nationally recognized Honor Code, administered by the Student Honor Council. This code sets standards for academic integrity for all undergraduate and graduate students, and you are responsible for upholding these standards in this course. It is very important for you to be aware of the consequences for cheating, fabrication, facilitation, and plagiarism. For more information visit: http://www.shc.umd.edu. Students who engage in academic dishonesty in this course will receive no points for the assignment, and will be reported to the Honor Council and Office of Judicial Programs for further action. There will be no warnings. Remember, it is never worth it!

Religious Observances
Absence due to religious observance will not be penalized. However, it is the student's responsibility to notify the instructors within the first three weeks of class regarding any absence(s) for the entire semester.

Persons With Disabilities
Students with a documented disability should inform the instructors as soon as possible if academic accommodations are needed. Accommodations for individuals with disabilities can be arranged through the Disability Support Service (DSS), a division of the University Counseling Center. Please call 301.314.7682, e-mail dissup@umd.edu, or visit the Shoemaker Building for more information.

Multicultural Statement
The instructors of this course are committed to creating an open and accepting environment in which diversity, opinions, unique perspectives, and others' worldviews are respected.

Special Accommodations
Any student with special needs or circumstances (work conflicts with outside activities, personal issues, etc.) should feel free to meet with the course instructors during office hours to discuss accommodations and/or special circumstances.

Evaluation Process

<table>
<thead>
<tr>
<th>Coursework</th>
<th>Total Possible</th>
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<tbody>
<tr>
<td>Engagement Log</td>
<td>250 points</td>
</tr>
<tr>
<td>Special Topics Presentation</td>
<td>150 points</td>
</tr>
<tr>
<td>Networking Reception Attendance/ Career Reflection Paper</td>
<td>50 points</td>
</tr>
<tr>
<td>Multicultural Movie Review</td>
<td>150 points</td>
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<tr>
<td>Final Reflection Paper</td>
<td>150 points</td>
</tr>
<tr>
<td>Journal Entries</td>
<td>2 @ 75 points</td>
</tr>
<tr>
<td>Participation/Professionalism</td>
<td>100 points</td>
</tr>
<tr>
<td><strong>TOTAL POINTS POSSIBLE</strong></td>
<td><strong>1000 points</strong></td>
</tr>
</tbody>
</table>

*Extra Credit (EC) of up to 25 points will be awarded to those who participate in service for more than 4 hours.

Grading Scale
In order to succeed in this class, all assignments must be completed. The following grading scale will be used: 
A: 900 – >1000;  B: 800 – 899;  C: 700 – 799;  D: 600 – 699;  F: <599

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Evaluation Criteria

Engagement Log
Refer to the handout for the full description. The engagement log is designed to provide “beyond the classroom” experiences necessary to develop well-rounded engineering students. Mentoring and role modeling experiences have been shown to enhance self-confidence and self-efficacy with respect to engineering. Engagement Logs are due by May 13th.

Service Outreach (Part of the Engagement Log)
Service outreach is part of the “beyond the classroom” experience necessary to develop well-rounded engineering students. Mentoring and role modeling experiences have been shown to enhance self-confidence and self-efficacy with respect to engineering. You are required to attend one service outreach activity at any time throughout the semester. Three opportunities through WIE are:

1. WIE DREAM Conference – Saturday, February 14, 2015, 7:30 am – 5:00 pm
2. Girl Scout Engineering Saturday – March 28, 2015, 8:30 am – 1:30 pm
3. KEYS to Empowering Youth – April 11, 2015, 8:30 am – 4:00 pm
4. STEM Expo – April 11, 2015, 7:30 – 3:00 pm

Please submit an online volunteer form to volunteer for event #1 ASAP. The form can be found at: https://futureumdengr.wufoo.com/forms/wie-dream-conference-2015-volunteer-form/. Bria Barry at bmcelroy@umd.edu is the coordinator for this event. Please let Dawn Ginnetti (dginnett@umd.edu) know if you are planning to volunteer for events #2 or #3 and let India Alexander (ialexand@umd.edu) know if you are planning to volunteer for event #4 as soon as possible. Make sure to state that you are in Virtus. Note: there are limited openings and all volunteers for events #2 and #3 are expected to have an interest in working with a middle school age group, be enthusiastic and make sure the students are engaged.

With 4 hours of service you will earn the full 100 points available; however, up to 25 extra credit points are possible if you serve for more than four hours.

After attending EACH service outreach activity, you must complete the wufoo form to submit the dates of the event, the coordinator’s name, the date and hours you worked. You will not be given credit for this assignment unless you submit this information. Please do not email the information. https://futureumdengr.wufoo.com/forms/enes214-service-recruitment-event-notification/

Recruitment Event (Part of the Engagement Log)
You are required to attend at least one recruitment event from the list below. These events are important in attracting freshmen engineers, as well as new members of Virtus. All of you are the ideal representative for the Clark School and UMD in attracting these students. Volunteer for the event that you would like to attend here: https://futureumdengr.wufoo.com/build/virtus-spring-2015-recruiting-activity-sign-up/

After completing the recruitment event, you must complete the wufoo form to submit the name of the event, the coordinator’s name, and the date and hours you worked. You will not be given credit for this assignment unless you submit this information. https://futureumdengr.wufoo.com/forms/enes214-service-recruitment-event-notification/

1. Virtus/Flexus Open House – Saturday, February 13, 2015, 5-7:30 pm, 7:30 – 10pm, 10-12:30pm
2. SEEDS/Clark School Open House - March 5, 2015, noon – 1 pm & April 2, 2015, noon – 1 pm
3. Virtus Preview Program– March 5, 2015, 5:30 – 7:00 pm & April 2, 2015, 5:30 – 7:00 pm
4. Telecounseling – May 4 – May 8, 2015, 5:00 – 9:00 pm
Special Topics Presentation
You will prepare an 8-10 minute presentation on a topic of your choosing. You must pose the topic in the form of a question and it must relate to any current research in your engineering field or area of interest in STEM (science, technology, math, and engineering). Or, you may choose a topic that relates to diversity issues in STEM.

Some examples of questions that relate to multicultural issues or retention in STEM include: How does race/ethnicity affect STEM careers and majors? Why are minority faculty less represented in STEM majors? Why should a diverse workforce be a goal? (What are the benefits of diversity from the perspective of the STEM fields)? How can preparation in STEM fields be viewed as a tool for social mobility? How college/universities can help student be successful in STEM fields? How students can prepare for a major in STEM?

You should include at least five sources that you find on UMD’s Library Research Port from peer-reviewed journals (ideal search terms: STEM, engineering, etc.), reputable websites (e.g., not Wikipedia), or other scholarly articles and writings. The presentation should synthesize what you learned from your research to answer the question that you posed.

Your presentation should include the following:
- **Question**: A statement of your question with an explanation of why it's important and why you personally chose it (not more than 1-2 slides)
- **Research Review**: A review of your five sources stating what you found that helps answer your question (3-4 slides)
- **Conclusion**: A synthesis of what you learned from your five sources to answer the question that you posed (1-2 slides)
- **Reflection**: A personal reflection of your related opinion and how this question/answer affects you as an engineer (not more than 1 slide)
- **References**: Cite your 5+ sources

You must have your presentation topic, team and presentation day approved by Lisa by 2/25. You will present in teams of two and sign up for your presentation day, either 4/15 or 4/22.

Networking Event
The networking event this in conjunction with ENES114 and ENES116. This event is on Wednesday, April 1 at 4pm.
It is also strongly encouraged that you attend the Spring Career Fair on February 18, 19, 20, 2015 held in the Stamp Student Union from 12pm-5pm.

Journal Entries
Journals are an expression of your feelings and reactions to academic and social experiences. Many journals will focus on the weekly reading assignment. You will be required to submit 2 journal entries electronically on Canvas. Each journal is due before class begins, and specific topics will be posted on Canvas the week before they are due. Your journal should be no less than 1-page double-spaced in length.

Multicultural Movie Review
Diversity and multiculturalism is a cornerstone of UMD and an important focus of our program and class.
Watch one of the movies and prepare to present to class answering the following questions.
1. What movie did you select? Why did you select that movie?
2. Briefly describe your general impressions of the movie.
3. What was the main theme of the movie and how does it relate to cultural diversity?
4. Identify the main character in the movie and explain how the character is similar to and different from you.
5. What did you learn about cultural diversity and cultural sensitivity by watching the movie?
6. Please explain how this activity did or did not assist with your development of multicultural competencies (i.e., awareness, knowledge, skills, & values).

*Movies cannot be duplicated; only one presentation per movie. Once you have your movie selected lock it down with Lisa. If you would like to view a movie not on this list you must have it approved beforehand. Movie request should be made by Feb. 25. Please do not select a movie you have already seen.

**Movie List**

<table>
<thead>
<tr>
<th>Crash</th>
<th>The Great Debater's</th>
<th>Viva Cuba</th>
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</thead>
<tbody>
<tr>
<td>Higher Learning</td>
<td>Schindler's List</td>
<td>Shackled Women</td>
</tr>
<tr>
<td>The Color Purple</td>
<td>Ping Pong Playa</td>
<td>My Name Is Khan</td>
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<tr>
<td>Do the Right Thing</td>
<td>Hotel Rwanda</td>
<td>La Bamba</td>
</tr>
<tr>
<td>Waiting for Superman</td>
<td>Mississippi Burning</td>
<td>Pariah</td>
</tr>
<tr>
<td>Entre Nos</td>
<td>Eve's Bayou</td>
<td>Redtails</td>
</tr>
<tr>
<td>Raisin in the Sun</td>
<td>Boyz in the Hood</td>
<td>Philadelphia</td>
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<tr>
<td>A Time to Kill</td>
<td>The Butler</td>
<td>12 Years a Slave</td>
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<tr>
<td>Roots I &amp; II</td>
<td>42</td>
<td>Selma</td>
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<tr>
<td>Boys Don’t Cry</td>
<td>The Help</td>
<td></td>
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</tbody>
</table>

**Final Reflection Paper**

You will write a 3-4 page (double-spaced) paper reflecting on your personal cumulative experience over the past 4 semesters as a UMD engineer.

The paper should include: How would you describe yourself when you first came to UMD almost 2 years ago? How have you changed and how are you the same now? Have your goals changed? Why or why not? How have you changed as a leader and what leadership roles have you taken on over the past 2 years? How Virtus has impacted your first two years on campus? Have your views on gender and culture changed? How so? How comfortable do you feel in your decision to be an engineer? Has this changed, why or why not? What are the most important things you have learned and what advice would you give to new freshmen or sophomores? What role, if any, do you feel Virtus has played in your first two years at UMD? You may also include any other reflection you wish to make on the past 2 years.

**Participation/Professionalism**

1. **This course will be interactive, combining lecture, reading, discussion, and activities.** Please come prepared to each class, including reading the text ahead of time, brainstorming comments and/or questions, and being prepared to answer questions posed by instructors or your classmates. Discussions of your personal experiences and opinions are important. You are encouraged to make suggestions about your needs as a student, and to share ideas that you believe may make the class more conducive to your learning style.

2. **Professionalism entails coming to class on time, being attentive in class (vs. sleeping), completing individual assignments, and being respectful of your instructors, guest speakers, and other class members.** Treating others with respect includes respecting diverse opinions, paying attention, listening when others are speaking, and allowing everyone a chance to voice opinions and comments. Confidentiality is expected as personal experiences and opinions will be shared often.
## Course Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/29</td>
<td>Welcome &amp; Syllabus Overview</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>2/4</td>
<td>No Class</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>2/11</td>
<td>SPARing Exercise</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2/18</td>
<td>Engineering Ethics Case Study</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>2/25</td>
<td>No Class</td>
<td>Topic for Special Topics Presentations must be approved by this date</td>
</tr>
<tr>
<td>6</td>
<td>3/4</td>
<td>Multicultural Movie Review Presentations</td>
<td>Journal #1</td>
</tr>
<tr>
<td>7</td>
<td>3/11</td>
<td>Multicultural Movie Review Presentations</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>3/18</td>
<td>Enjoy Your Spring Break! 😊</td>
<td></td>
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<tr>
<td></td>
<td>3/25</td>
<td>International Leadership &amp; Globalization Reading &amp; discussion</td>
<td></td>
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<tr>
<td>9</td>
<td>4/1</td>
<td>Meet in Kim Rotunda Employer Networking Reception Dress in professional attire to network with employers and alumni.</td>
<td>Journal #2</td>
</tr>
<tr>
<td>10</td>
<td>4/8</td>
<td>No Class</td>
<td>Career Reflection Paper Due</td>
</tr>
<tr>
<td>10</td>
<td>4/15</td>
<td>Special Topics Presentations</td>
<td></td>
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<tr>
<td>11</td>
<td>4/22</td>
<td>Special Topics Presentations &amp; Evaluations</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>4/29</td>
<td>No Class</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>5/6</td>
<td>Closing (4:00-6:00pm w/ first-years)</td>
<td>Final Reflection Paper Due</td>
</tr>
<tr>
<td>14</td>
<td>5/13</td>
<td>No Class</td>
<td>Engagement Logs Due</td>
</tr>
</tbody>
</table>

**Please note that this schedule is tentative and the instructor may alter it as needed. Any changes will be announced in class or via e-mail.**