ENES 113 0101: Virtus Living and Learning Community Seminar I
Fall 2014
Wednesdays, 4:00-5:30pm
MCB 1207

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Course Description
This course is designed to assist you in becoming a successful student in engineering. You will be provided with information that will assist your success 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
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 by exploring career possibilities, personal preferences, and academic expectations.
2. Students will improve skills essential to the study of engineering through training in group processes, interpersonal communication, and UMD technology competency.
3. Students will increase their awareness of campus resources and support services, including
   • Academic support services, such as the UMD Engineering Co-Op and Career Services Office,
   • Personal and social support services.
4. Students will increase their awareness of issues related to engineering by
   • Sharing stories and engaging in conversations with science and engineering role models regarding their personal experiences in academia and industry,
   • Exploring personal learning preferences and ways of knowing,
   • Examining their values regarding particular college issues, such as safety, health, personal and social identity, diversity and social connection.
5. Students will synthesize and apply new knowledge and skills through individual reflection and group activities.
Course Policies

Attendance
Regular attendance and participation in this class is the best way to grasp the concepts and principles being discussed. However, in the event that a class must be missed due to an illness, the policy in this class is as follows:

1. For every medically necessary absence from class (lecture, recitation, or lab), a reasonable effort should be made to notify the instructor in advance of the class. When returning to class, students must bring a note identifying the date of and reason for the absence, and acknowledging that the information in the note is accurate.

2. If a student is absent more than 3 time(s), the instructor may require documentation signed by a health care professional.

3. If a student is absent on days when tests are scheduled or papers are due [or other such events as specified in the syllabus] he or she is required to notify the instructor in advance, and upon returning to class, bring documentation of the illness, signed by a health care professional.

Missed/Late Assignments
Students are expected to turn in all assignments, journals, papers and projects at the beginning of the 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 or an alternate arranged time). 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 Susquehanna Hall 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**

A total of 1000 points will be allocated as follows:

<table>
<thead>
<tr>
<th>Coursework</th>
<th>Maximum Points</th>
<th>Total Possible</th>
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</thead>
<tbody>
<tr>
<td>First Look Fair</td>
<td>100 points</td>
<td>100 points</td>
</tr>
<tr>
<td>Kolb Activity</td>
<td>100 points</td>
<td>100 points</td>
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<tr>
<td>Kolb reaction paper</td>
<td>100 points</td>
<td>100 points</td>
</tr>
<tr>
<td>Engagement Logs</td>
<td>200 points</td>
<td>200 points</td>
</tr>
<tr>
<td>Journal Entries</td>
<td>2 @ 75 points</td>
<td>150 points</td>
</tr>
<tr>
<td>Final Project Bibliography</td>
<td>50 points</td>
<td>50 points</td>
</tr>
<tr>
<td>Final Project Presentation</td>
<td>200 points</td>
<td>200 points</td>
</tr>
<tr>
<td>Participation/Professionalism</td>
<td>100 points</td>
<td>100 points</td>
</tr>
<tr>
<td><strong>TOTAL POINTS POSSIBLE</strong></td>
<td>--</td>
<td><strong>1000 points</strong></td>
</tr>
</tbody>
</table>

**Grading Scale**

In order to pass this class, all assignments must be completed. The following grading scale will be used:

- 900 – >1000  A
- 800 – 899   B
- 700 – 799   C
- 600 – 699   D
- <599        F

**Evaluation Criteria**

**Kolb Activity**
The Kolb activity will characterize your learning style and will take place during our regularly scheduled class time with an activity to turn in.

**Goal Statements**
You will develop short term, long term, and career goal statements during the in-class activity to turn in.

**First Look Fair**
Involvement in student organizations is an important aspect of being a well-rounded UMD student. You are to attend the First Look Fair which will be held September 17th and 18th from 10am to 3pm. Visit at least five student organizations that are of interest. Write an overview of each organization, answering the following questions for each:

- Why is this organization of interest to you?
- What students could benefit from participation in this group/club?
- What activities this group/club hosts during the Fall semester?
- What is the date, time and location of the organization’s next upcoming event that you can attend (one that’s not occurring during any of your classes/other commitments)?

**Kolb reaction paper**
This is a paper based on your Kolb results and interpretation as discussed in class. The purpose of this paper is to apply your results and interpretation to your personal career exploration and development.

First, discuss your current career goals. Second, discuss your results and interpretation of the Kolb and what occupation would be best considering your learning style. Third, how well do you think it matches your career goals? Include all of the following: the area of engineering in which you are interested and why; based on what you know about yourself, describe your ideal job; if you plan to continue your education after your bachelor’s degree and why; if there any other options you are considering; what opportunities you can take advantage of in the Clark School to help you achieve your goals; what obstacles you might face
in reaching your goals and how you can prepare yourself to deal with these obstacles; and what is likely to change about these goals over the next few years. Length: 2 pages.

Journal Entries
Journals are an expression of your thoughts and reactions to academic and social experiences. You will be required to submit two journal entries electronically on Canvas. Each journal is due by 4pm on Wednesdays, and specific topics will be posted on Canvas the week before they are due. Length: approximately one- full page double-spaced. The prompt for Journal #1 is below. The prompt for Journal #2 will be posted to Canvas.

Journal #1: Autobiography “I Am”
Starting with the phrase “I Am”, write 13 statements about yourself that will help me get to know you. Feel free to include information about your decision to go to college, what makes you the most nervous about college, what you are looking most forward to doing/experiencing, what you are least looking forward to doing/experiencing. (i.e. I am interested in XX major because...) Follow this with a brief paragraph discussing your first interactions with your SEEDS Mentor.

Engagement Logs
The Engagement Logs are part of the “beyond the classroom” experience necessary to develop well-rounded engineering students. You are required to complete at least one activity from each of the four sections on the engagement log: Academic, Service/Organization, Social, and Multi-Cultural. The maximum amount of points any student can receive is 200 points (completing the campus event and the SEEDS event are highly recommended, but will not reward you with extra credit). The engagement log can be found on Canvas and has the due dates included on them.

Final Project:
Research one of the following topics, and collaborate with a team of five members to create a five minute presentation that explains the history, functionality, and future application on one of the topics below. All presentations must be accompanied by a bibliography which will be due at the beginning of class on October 16th, 2014.

- Levitation
- Propulsion
- Arduino
- Intermolecular forces
- Quantum mechanics
- Equilibrium
- Thermochemistry
- Limiting Reagents
- Hand tools
- Basic machines (example, pulley system)
- Programming Languages
- Le Chatelier’s Principle
- Skyscrapers
- Sustainable design
- VSEPR theory

Participation/Professionalism
1. This course will be interactive, combining lecture, reading, discussion, and activities. Please come prepared to each class. Active participation is highly valued. Discussions of your personal experiences and opinions are important. You are encouraged to make suggestions about your needs as a first-year student, and to share ideas that you believe may make the class more conducive to your learning style. There will be periodic evaluations of the class content and you are strongly encouraged to comment honestly.
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

*Please note that this schedule is tentative and the instructors may alter it as needed. Any changes will be announced in class or via e-mail. Please check your email at least once a day!*

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Assignment</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>9/3</td>
<td>Syllabus Overview, Community Expectations and Guidelines, Icebreakers, Entrance Survey</td>
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<tr>
<td></td>
<td></td>
<td>What is Engineering?</td>
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<tr>
<td>2</td>
<td>9/10</td>
<td>Circuits</td>
<td>Journal #1</td>
</tr>
<tr>
<td>3</td>
<td>9/17</td>
<td>Autodesk Inventor</td>
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<tr>
<td>4</td>
<td>9/24</td>
<td>How to work in a group/learning styles (Kolb)</td>
<td>First Look Fair Assignment</td>
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<tr>
<td>5</td>
<td>10/1</td>
<td>Time Management Workshop</td>
<td>Kolb Reaction Paper</td>
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<td></td>
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<td>Ms. Beverly Greenfeig, Learning Assistance Service (4-4:45pm)</td>
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<td>2nd Year Dialogue</td>
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<tr>
<td>6</td>
<td>10/8</td>
<td>Library Activity</td>
<td>Journal #2</td>
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<tr>
<td>7</td>
<td>10/15</td>
<td><em>Common Ground You IDs</em></td>
<td>Turn in bibliography (minimum of 3 sources)</td>
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<td>8</td>
<td>10/22</td>
<td>Sustainability Presentation</td>
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<tr>
<td>9</td>
<td>10/29</td>
<td>Meet with an Advisor</td>
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<td>Nicholas Richardson, Engineering Advising &amp; Academic Support</td>
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<td></td>
<td></td>
<td>Networking Overview</td>
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<tr>
<td>10</td>
<td>11/5</td>
<td>Networking Event (Alumni)</td>
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<tr>
<td>11</td>
<td>11/12</td>
<td>Final Presentations (6 Groups)</td>
<td></td>
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<tr>
<td>12</td>
<td>11/19</td>
<td>Final Presentations (6 Groups)</td>
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<tr>
<td>13</td>
<td>11/26</td>
<td><strong>No Class- Happy Thanksgiving! 😊</strong></td>
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<tr>
<td>14</td>
<td>12/3</td>
<td>Closing, Course Evaluations</td>
<td></td>
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<tr>
<td>15</td>
<td>12/10</td>
<td>Optional ENES102 Review Session: By RSVP</td>
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