ENES 113 0101: Virtus Living and Learning Community Seminar I
Fall 2012
Wednesdays, 4:00-5:30pm

Instructor Information
INSTRUCTORS: Bruk Berhane
OFFICE: 1131 Martin Hall
OFFICE HOURS: By Appointment
OFFICE PHONE: 301.405.0287
EMAIL: bberhane@umd.edu

TEACHING ASSISTANTS: Trae Vanaskey
EMAIL: traevanaskey@yahoo.com
OFFICE HOURS: 7:00 – 9:00 p.m. on Tuesdays
LOCATION: Easton Basement

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>50 points</td>
<td>50 points</td>
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<tr>
<td>Strong Interest Inventory</td>
<td>50 points</td>
<td>50 points</td>
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<tr>
<td>Goal Statements</td>
<td>50 points</td>
<td>50 points</td>
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<tr>
<td>Four-Year Plan</td>
<td>25 points</td>
<td>25 points</td>
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<tr>
<td>Career Interest Paper</td>
<td>125 points</td>
<td>125 points</td>
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<tr>
<td>Service Outreach</td>
<td>150 points</td>
<td>150 points</td>
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<tr>
<td>Journal Entries</td>
<td>3 @ 25 points</td>
<td>75 points</td>
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<tr>
<td>MDSE Project- 1-2 page paper</td>
<td>40 points</td>
<td>40 points</td>
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<td>MDSE Project – Bibliography</td>
<td>10 points</td>
<td>10 points</td>
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<tr>
<td>MDSE Project- Midterm Presentation</td>
<td>125 points</td>
<td>125 points</td>
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<tr>
<td>MDSE Project Final Presentation</td>
<td>200 points</td>
<td>200 points</td>
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<tr>
<td>Participation/Professionalism</td>
<td>100 points</td>
<td>100 points</td>
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<tr>
<td><strong>TOTAL POINTS POSSIBLE</strong></td>
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<td>1000 points</td>
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</tbody>
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*Extra Credit (EC) of up to 25 points will be awarded for participating in service outreach for more than 4 hours.

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

Strong Interest Inventory
The Strong Interest Inventory is a career interest assessment that will be distributed in class Week 2. It is to be completed at home, and is due at the start of class on Week 3.

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 12th and 13th from 10am to 3pm. Visit at least five student organizations that are of interest, and record the name of the organization and contact information to turn in.
Career Interest/Strong Interest Inventory Reaction Paper
This is a paper based on your Strong Interest Inventory 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 Strong and how well 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: 2-3 pages.

Four-Year Plan
Completing a four-year plan encourages graduating on time, assists in class scheduling and is important in keeping students on track. Following our class session with an academic advisor, you will complete your four-year plan template at home and turn in during the next class.

**Print out and bring your four year plan with you to class. Use your major’s four year plan template (found at www.eng.umd.edu/advising/ under “Degree Planning Tools” and “Four Year Plan”).

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

Service Outreach
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. One opportunity is:

Engineering Your Future – Saturday, November 19, 2012, 8:00 am – 2:00 pm (times subject to change). Email Ms. Tykeia Robinson at tykeianr@umd.edu with the times in which you are able to volunteer. Please note that this event will involve working with high school students considering engineering, so it is important for volunteers to have enthusiasm.

Other opportunities may be found at: http://www.csl.umd.edu/resources/ UMservices/index.htm. Please note that the service outreach activity you choose must relate in some way to engineering!

With 4 hours of service you will earn the full 150 points available; however, up to 25 extra credit points are possible if you serve for more than four hours. After attending the service outreach activity, you must email Bruk with the name of the event, the coordinator’s name and email address, and the date and hours you worked. You will not be given credit for this assignment unless you email this information. This must be completed by November 20th, 2012.
MDSE Project
You will work in small teams (4-5 members) to present a solution to an engineering problem to the University of Maryland ‘Maryland Sustainability Engineering’ chapter. This presentation will be the culmination of a semester’s worth of work with your teammates. You will first complete a preliminary report, then complete a preliminary presentation, receive feedback and complete a final presentation at the end of the term.

1. MDSE Project-Bibliography (DUE: 10/3) should include a minimum of three sources. Please utilize the Research Port presentation and information available on ELMS to help guide you in your research and creation of your bibliography.

   One paper should be turned in per group to the Virtus instructor on the date due.

2. MDSE Preliminary Report (DUE: 10/10) will be a two page paper and possible brief meeting with the instructor. The paper should address the following:
   a. What research has your team completed?
   b. What was each team member’s role?
   c. How often have you met together as a team?
   d. Has everyone attended team meetings? Be specific.
   e. What questions do you have for the MDSE mentors that will help you better present a solution to this engineering problem?
   f. Include with your paper submission a preliminary outline of your Power Point Presentation

   One paper should be turned in per group to the Virtus instructor on the date due.

3. MDSE Preliminary presentation (DUE: Week of 10/29) will be a presentation. Logistical details will be provided to you closer to the due date. This presentation should be prepared in Power Point and address the research findings that you have completed to date.

4. MDSE Project- Final Presentation (DUE: Week of 11/26)

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 (Due for class)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>8/29</td>
<td>Syllabus Overview, Community Expectations and Guidelines, Icebreakers, Entrance Survey (4:00-4:45) (113-Easton Basement/115-Easton 1st fl) Goal Setting Exercise (4:45-5:30) (113-Easton Basement/115 Easton 1st fl)</td>
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<tr>
<td>2</td>
<td>9/5*</td>
<td>Introduction to Basic Tools – Part I (4:00-4:45) (113-JMP 1120**) Intro to MatLab and Excel (4:45-5:30) (113 – JMP 1116**) Distribute Strong Interest Inventory</td>
<td>Journal #1</td>
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<tr>
<td>3</td>
<td>9/12</td>
<td>Pro/E (4:00-4:45) (113-JMP 1116**) I’m a Maryland Student, Now What? Donna Lim, Student Activities- STAMP Student Union (4:45-5:30) (113 – JMP 1201**)</td>
<td>Goal Statements Strong Interest Inventory</td>
</tr>
<tr>
<td>4</td>
<td>9/19*</td>
<td>Basic Tools – Part 2 (4:00-4:45) (113 – JMP 1120) Circuits (4:45-5:30) (113 – JMP 1201)</td>
<td>First Look Fair Assignment</td>
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<tr>
<td>5</td>
<td>9/26</td>
<td>Student Panel (4-4:45) (113-Easton Basement) Introduction to Sustainability Project (4:45-5:30) (113 – Easton Basement)</td>
<td>Journal #2</td>
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<tr>
<td>6</td>
<td>10/3</td>
<td>Time Management Workshop Ms. Beverly Greenfieg, Learning Assistance Service (4-5pm) (113/115 – CSIC 3117) “Effective research” (5:00-5:30) (113/115 – CSIC 3117)</td>
<td>Turn in bibliography (minimum of 3 sources)</td>
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<td>Week</td>
<td>Date</td>
<td>Topic</td>
<td>Assignment (Due for class)</td>
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<td>7</td>
<td>10/10</td>
<td>More About Me Session (4:00pm-4:45pm) (113-JMP 1116)</td>
<td>MDSE Two Page Paper due with bibliography</td>
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<td>Strong Interest Inventory Interpretation &amp; ONET Career Session (Ms. Deborah Vidmar-Engineering Co-Op and Career Services &amp; Dr. Paige Smith – Women in Engineering Program) (4:45 – 5:30 pm) (113 – JMP 1116)</td>
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<tr>
<td>8</td>
<td>10/17</td>
<td>Learning Styles (4:00-5:00pm) (113 – JMP 1116)</td>
<td>Career Interest Paper</td>
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<td>Learning how to “Learn” (5:00 – 5:30pm) (113 – JMP 1116)</td>
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<td></td>
<td>(113-JMP 1116)</td>
<td>**Print out and bring your Unofficial Transcript &amp; Four Year Plan template to class</td>
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<tr>
<td>10</td>
<td>10/31</td>
<td>MDSE Project Preliminary Presentations</td>
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<tr>
<td>11</td>
<td>11/7</td>
<td>Safety &amp; Self Defense (4:00pm-5:00pm) (113-Easton Basement)</td>
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<td>Networking Overview (113-Easton Basement)</td>
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<tr>
<td>12</td>
<td>11/14</td>
<td>Networking Event (113-NEED ROOM!!)</td>
<td>Journal #3</td>
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<tr>
<td>13</td>
<td>11/21</td>
<td>No Class- Happy Thanksgiving! 😊</td>
<td>Service Outreach Due by 11/20</td>
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<tr>
<td>14</td>
<td>11/28</td>
<td>No Class</td>
<td>MDSE Project Final Presentation</td>
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<tr>
<td>15</td>
<td>12/5</td>
<td>Closing, Course Evaluations (113-JMP 1116)</td>
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*Please wear closed-toe shoes with your hair tied back on 9/5 and 9/19 when we will be using tools in the workshop. This is a safety requirement for using the equipment.*

**Please note that JMP room 1120 and 1215 refer to work rooms. JMP rooms 1116 and 1201 refer to the adjoining computer labs.