Course Information: Engr110 – Engineering Orientation
Meeting Time: Mondays, 3-4:50pm
Room: SAM206
Credits: 2
Prerequisites: none

Instructor: Rainer Heller, Ph.D.
rainer.heller@seattlecolleges.edu
206.934.4080
http://seattlecentral.edu/faculty/rheller/
Office: SAM210
Office Hours: see web

Course Description: Explores career options in engineering through activities and guest speakers. Includes study skills, academic and professional planning, the engineering design process, group projects and engineering challenges.

Course Purpose and Objectives: In this course you can find out if a career in engineering is for you. You will be able to meet with engineering professionals and academic advisors to map out an individualized academic plan for your time at Seattle Central and to get ready for transfer to your dream college. Find out what resources our school offers to help you on your educational path. Explore how you learn and work best and make adjustments to become a more effective learner. Participate in a group project to learn what engineering is all about and begin to network with your future colleagues.

Learning Outcomes:
1. Develop an academic plan that includes:
   a. Your two-year pathway to a four-year college
   b. Connections between engineering and several academic and professional career paths
2. Self-evaluate and improve your study skills
3. Develop a self-improvement plan based on the attributes of professionals in STEM fields
4. Apply the basic engineering design process and teamwork skills through a group project
5. Demonstrate an awareness of current engineering challenges


Class Schedule:
Please check the course website for details on what happens each week. We will soon add to the calendar that will list our weekly activities.
Since we are inviting speakers from academia and industry the class schedule is likely to evolve and change throughout the quarter. Expect frequent updates (e.g. due to speaker confirmation or cancellation). I will set up a course email list to inform you of updates. Please check the website frequently.

Assessment:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>20%</td>
</tr>
<tr>
<td>Project</td>
<td>10%</td>
</tr>
<tr>
<td>Participation</td>
<td>30%</td>
</tr>
<tr>
<td>Written Assignments</td>
<td>10%</td>
</tr>
<tr>
<td>Education (aka Academic) Plan</td>
<td>20%</td>
</tr>
<tr>
<td>Term Paper</td>
<td>10%</td>
</tr>
<tr>
<td>UW Transfer Thursday (see below)</td>
<td>0%</td>
</tr>
</tbody>
</table>

Exams: There will be four take-home exams on assigned reading and lecture material. Dates will be announced in class and posted on the class website.

Participation: Since we will invite several guest speakers from academia and industry your participation will be very important for your success in this course. Missing one class will not affect your grade, missing more than one will. When I take attendance, it is essential that you respond when your name is called.

Note: the instructor reserves the right to make changes to this syllabus.
Meeting with Academic Advisor and Academic Plan: As part of this course you will hopefully meet with one of our academic advisors, to discuss any questions you have regarding your academic plan for Seattle Central as well as transfer to a four-year college. You will explore a number of different online tools available to all Seattle Central students that will assist you in creating your academic plan. For assessment purposes you will create and print an education plan from your student account. Details will be given in class.

UW Transfer Thursday: In order to transfer successfully and without unnecessary delays you need to be as informed as possible. The UW offers information sessions on most Thursdays (info on website). If you do not plan to transfer to the UW you should get equivalent information for the college of your choice. Attending a UW Transfer Thursday event is highly recommended but not required.

Project(s): To become familiar with the engineering design process and gain some hands-on experience you will participate in one or more group projects/activities. Specifics will be announced in class. You will be graded on completion and participation in the process.

Written assignments: There will be several online and written assignments to be submitted. These will reinforce material covered in class. Due dates will vary and will be announced in class and on the class website.

Term Paper: To transfer successfully you will need to submit a personal statement. To get you started on this process, you will write a term paper. Details will be announced in class and on the website.

Special Assistance

Students with documented disabilities who need course accommodations, have emergency medical information, or require special arrangements for building evacuation should contact the instructor within the first two weeks of class.

Title IX

Seattle Central College seeks to provide an environment that is free of bias, discrimination, and harassment. If you have been the victim of sexual harassment/misconduct/assault we encourage you to report this. For more information about your options at Seattle Central, please go to: http://seattlecolleges.edu/HR/about.aspx

Final Note: I will do my best to make this class enjoyable and informative. Engr110 is only a 2 credit course, but it may very well be one of the most impactful courses in your career. Make the most of it!

Note: the instructor reserves the right to make changes to this syllabus.