Engineering* Orientation and Advising Meeting

Fall 2015

Richard Singer
Instructor, Computer Science and Electrical Engineering
Campus Representative for the College of Engineering
Penn State Altoona
Engineering Advisor

* EMET majors have a separate meeting in 139 Hawthorn
Today’s Presentation

1. Overview - College of Engineering
   - Careers / Majors
   - Academic Expectations
   - Entrance to Major Process & Enrollment Control

2. Advising
   - Purpose and your responsibilities as an advisee
   - Campus Resources
   - Adviser contact information
Baccalaureate Engineering at PSU

Engineering

- Aerospace Engineering (AERSP)*
- Architectural Engineering (A E)*
- Biomedical Engineering (BME)*
- Biological Engineering (B E)
- Chemical Engineering (CH E)*
- Civil Engineering (C E)*
- Computer Engineering (CMPEN)*
- Computer Science (CMPSC)*
- Electrical Engineering (E E)
- Engineering Science (E SCI) (3.00 min GPA required)
- Industrial Engineering (I E)*
- Mechanical Engineering (M E)*
- Nuclear Engineering (NUC E)*

*Enrollment Controlled majors require cumulative grade point average above threshold
Penn State Altoona

- Electro-Mechanical Engineering Technology
- Rail Transportation Engineering

Other Locations

- Electrical and Computer Engineering Technology (Erie)
- Electro-Mechanical Engineering Technology (Berks, New Kensington, & York)
- Electrical Engineering Technology (Erie, Harrisburg, and Wilkes-Barre)
- Electrical Engineering (Harrisburg)
- General Engineering (Hazelton [Alt Energy & Power Gen Option]; Dubois [App Matl Option])
- Mechanical Engineering Technology (Erie and Harrisburg)
- Plastics Engineering Technology (Erie)
- Structural Design and Construction Engineering Technology (Harrisburg)
- Surveying Engineering (Wilkes-Barre)
### 20011 Average Starting Salaries

<table>
<thead>
<tr>
<th>Field</th>
<th>2011¹</th>
<th>2015²</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Agricultural &amp;) Biological Engineering</td>
<td>$49,000</td>
<td>-----</td>
</tr>
<tr>
<td>Architectural Engineering</td>
<td>$55,700</td>
<td>-----</td>
</tr>
<tr>
<td>Aerospace Engineering</td>
<td>$58,000</td>
<td>$64,500</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>$59,500</td>
<td>$60,698</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>$53,100</td>
<td>$55,220</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>$61,800</td>
<td>$66,281</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>$59,200</td>
<td>$66,945</td>
</tr>
<tr>
<td>Computer Science</td>
<td>$58,300</td>
<td>$67,779</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>$61,800</td>
<td>$64,138</td>
</tr>
<tr>
<td>Engineering Science</td>
<td>$65,000</td>
<td>-----</td>
</tr>
<tr>
<td>Industrial Engineering</td>
<td>$63,100</td>
<td>-----</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>$60,700</td>
<td>$61,523</td>
</tr>
<tr>
<td>Nuclear Engineering</td>
<td>$62,100</td>
<td>-----</td>
</tr>
</tbody>
</table>

¹ Source: 2011 PSU Exit Survey

² Source: Michigan Tech Salary Survey and National Association of Colleges and Employers
What you don’t want to hear...

History shows that:

• Approximately 60% of First-Year Engineering Students Will Eventually Graduate with a Bachelor’s Degree in Engineering

Do not be discouraged by this… be motivated!
# Academic Expectations

- 168 hours per week
  - leaves about 64 hours per week for you to
    - do something fun!
    - ...or eat and do your laundry.

<table>
<thead>
<tr>
<th>Activity</th>
<th>time (hr)</th>
<th>total (hr/week)</th>
</tr>
</thead>
<tbody>
<tr>
<td>In class</td>
<td>1 hr/credit</td>
<td>16</td>
</tr>
<tr>
<td>Studying outside class</td>
<td>2 hr/credit</td>
<td>32</td>
</tr>
<tr>
<td>Sleeping*</td>
<td>8 hr/day</td>
<td>56</td>
</tr>
</tbody>
</table>

*not to be combined with class

Total: 104
If you are having problems with a subject …

• Tutoring for math, chemistry, and english is available in the LRC (1st floor of library)

• On-line tutoring resources are available

• Strengthen your Study Habits
  – Help is available on-campus

• **Do not hesitate** to seek help / advice from your professors or academic advisor – the longer you wait the worse it gets!
If you are struggling with the Engineering Curriculum …

You might benefit by moving to an Engineering Technology major:

• Engineering Technology is more “Hands-On”, less theoretical
• Prepares students for practical design & production work rather than for jobs that require more theoretical and scientific expertise
• Irene Ferrara is the BSEMET Program Coordinator at Penn State Altoona (ixf107@psu.edu, 949-5568)
All first-year students:

Engineering Majors (UP)  ENGR (or DUS)

“Nominal Pool Semester”  SP 2017

Automatic Change of Location

Regular entrance-to-major process

AE*  AERSP  B E  BME*  CH E*  C E  E  E  ESC  M E  I E  NUC E  CMPSC  CMPEN

* May request early change of location to UP
Entrance to Major Process

To qualify for a College of Engineering major offered at University Park, a student must:

1. Be enrolled in the University in an appropriate credit window for their major (nominally SPRING 2017 for this group)

2. Have a cumulative GPA of at least 2.0, (3.0 for the Engineering Science)
   - For majors under enrollment control, a greater GPA will be required

3. Have completed the ETM courses with a grade of “C or better”
   - MATH 140, MATH 141, MATH 250 or 251*, PHYS 211, PHYS 212 and CHEM 110* are the designated ETM courses     (* CMPSC 122 and MATH 230 for CMPSC majors)

4. Select and confirm on eLion 3 choices for major in order of preference by the published deadline (typically between Jan. and Feb. of your pool semester) – NOTE: new software is expected by FA16 for ETM

Students who do not meet ETM requirements by the end of their credit window:
- must select another major
- must request extension (uncontrolled majors only, with no guarantee!)
## Cumulative GPA Requirements and Credit Windows

<table>
<thead>
<tr>
<th>MAJOR</th>
<th>Required min GPA</th>
<th>Credit Window</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERSP</td>
<td>3.0</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>A E</td>
<td>2.6 (3.0 for ENGA)</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>B E</td>
<td>2.0</td>
<td>Third semester classification 27.1 – 43 total credits earned</td>
</tr>
<tr>
<td>BME</td>
<td>3.2</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>C E</td>
<td>2.6</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>CH E</td>
<td>3.2</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>CMPEN/CMPSC</td>
<td>2.6</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>E E</td>
<td>2.0</td>
<td>Third semester classification 27.1 – 43 total credits earned</td>
</tr>
<tr>
<td>E SC</td>
<td>3.0</td>
<td>Third semester classification 27.1 – 43 total credits earned</td>
</tr>
<tr>
<td>I E</td>
<td>2.6</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>M E</td>
<td>3.1</td>
<td>40 – 59 cumulative credits</td>
</tr>
<tr>
<td>NUC E</td>
<td>2.6</td>
<td>40 – 59 cumulative credits</td>
</tr>
</tbody>
</table>

Cumulative credits include credits taken at Penn State with a letter grade earned even if F. Total credits include Penn State credits with a letter grade earned and transferred or AP credits.
Academic Advising

• Purpose of advising
  • to provide academic guidance
    • Shared responsibility
    • Develop an understanding of the curriculum
    • Assist w/ matching course selection to goals
  • to check on academic progress
    • encourage good performance
    • monitor problems
    • recommend solutions
  • to help you to graduate … on time!!
Your Responsibility as an Advisee

• Your preparation for advising
  – review the curriculum (Suggested Academic Plans)
  – review the course offerings for next semester
  – select courses and check scheduling
  – Perform a degree audit (eLion) before your advising meeting
  – Understand GEN ED requirements (see COE website)
  – Then … schedule advising meeting with faculty

– Check your PSU email account regularly
  – Important notices/deadlines are broadcast to your PSU email account (and “enews”). You are held responsible for acting on these notices!
  – Be professional in all email correspondence – use your PSU email account

• YOU are ultimately responsible for course scheduling, program planning, and the successful completion of ALL graduation requirements!
Other Advising Resources

Engineering Advising Center @ UP

• phone, 814-863-1033
• e-mail, advisor@engr.psu.edu

Important websites:
COE: www.engr.psu.edu
elion: http://elion.psu.edu
Schedule of courses: http://schedule.psu.edu/
Academic advising portal: http://advising.psu.edu/
Recommended advising meetings

- Before Drop/add period ends – check schedule
- Mid semester – academic checkup (Early Progress Reports)
- Before scheduling – review degree audit and check next semester’s courses
- Other times as necessary
- Your adviser is here to help you!
Important FA15 dates

- Classes begin – 8/24
- Labor Day – no classes – 9/7
- Regular drop deadline – 9/2
- Regular add deadline – 9/3 @ 8A
- Late drop begins – 9/3
- Late drop deadline – 11/13
- Thanksgiving holiday – no classes – 11/23-11/28
- Withdrawal deadline – 12/11
- Classes end – 12/11
- Study days – 12/12-12/13
- Final exams – 12/14-12/17
Some important definitions

- **Drop/add period** – time at the beginning of the semester when you may freely drop and add courses that you meet the prerequisites for.

- **Late drop** – period after the drop/add period and before the late drop deadline when you may drop a course. You have only 16 late drop credits for your entire PSU academic career. Please check with your advisor BEFORE doing this.

- **Withdrawal** – Drop ALL credits that a student is registered for. Does NOT use late drop credits. Future schedule(s) are cancelled. Please check with your advisor BEFORE doing this.
Other Engineering Advisers

- Jennilyn Vallejera – 205 Force, 814-949-5580, jmv22
- Jordan Sell – 103G Sheetz Health, jls5991
- Bryan Schlake – 103E Sheetz Health, 814-940-3327, bws14
- Adam Plucinski – 103F Sheetz Health, arp5181
Mr. Richard Singer
148 Learning Resource Center (LRC)
email – ras963@psu.edu
Webpage – www.personal.psu.edu/ras963
(814) 949 – 5183
Mailbox – 144 LRC
Staff assistant – Mary Novella, 144 LRC, (814) 949-5320

To schedule an appointment
www.altoona.psu.edu/stuadvise
Must be on my advisee list