

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**

Baccalaureate Engineering at PSU

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)**

What you want to hear...

2011 Average Starting Salaries

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

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

Activity	time (hr)	total (hr/week)
In class	1 hr/credit	16
Studying outside class	2 hr/credit	32
Sleeping*	8 hr/day	56
*not to be combined with class		
total:		104

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

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!

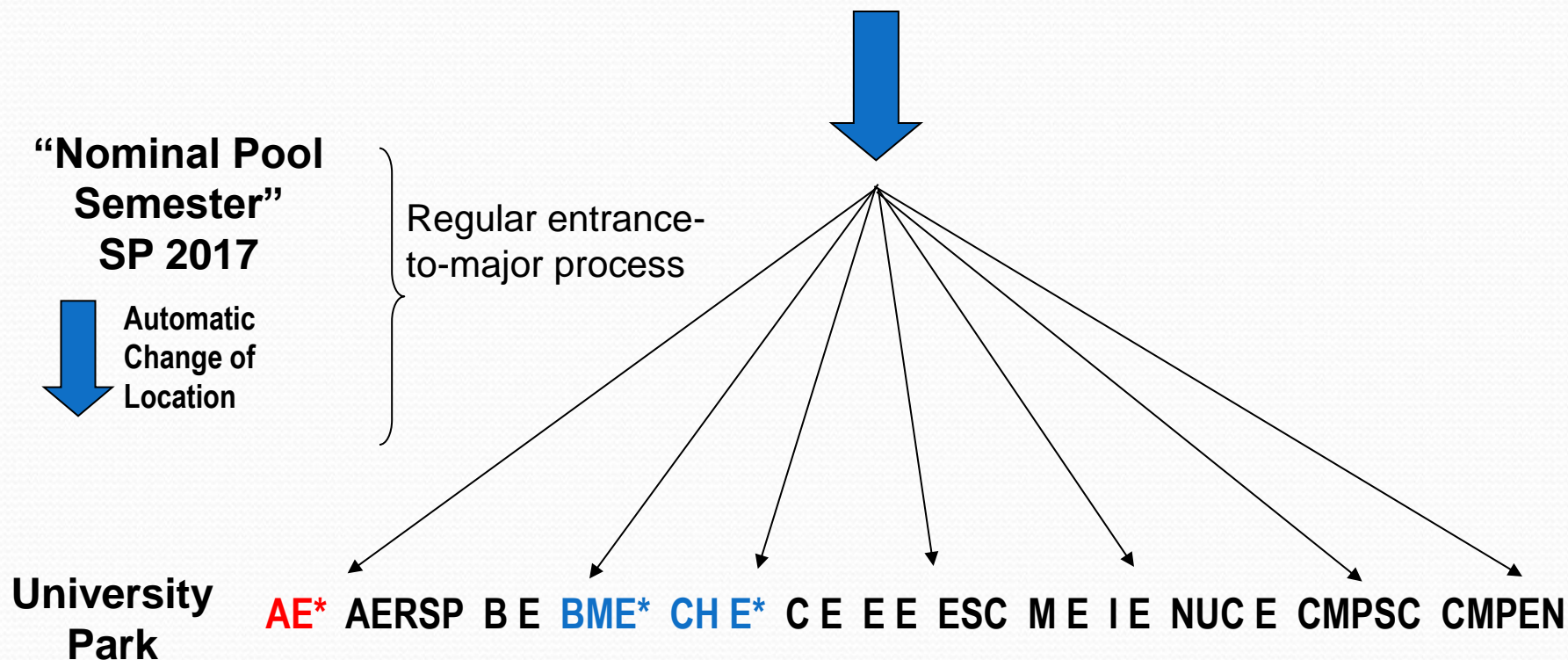
If you are struggling with the Engineering Curriculum ...

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)

Engineering Majors (UP)

All first-year students: ENGR (or DUS)



* 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

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

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!

<ul style="list-style-type: none">- be proactive- facilitate interaction

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

My Contact Information

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