



# First-Year Advisee Meeting

---

Monday, August 24, 2009

10:30 AM


ENGRG 1050 – Thorsten Joachims



# Introductions

---

- Faculty Advisor
  - Thorsten Joachims, [tj@cs.cornell.edu](mailto:tj@cs.cornell.edu)
- Peer Advisors
  - Brian Harning, [blh57@cornell.edu](mailto:blh57@cornell.edu)
  - Jonathan Liu, [j1892@cornell.edu](mailto:j1892@cornell.edu)
  - Susie Lai, [sl682@cornell.edu](mailto:sl682@cornell.edu)
- First-Year Students
  - ???



# Scheduling One-on-One Meetings

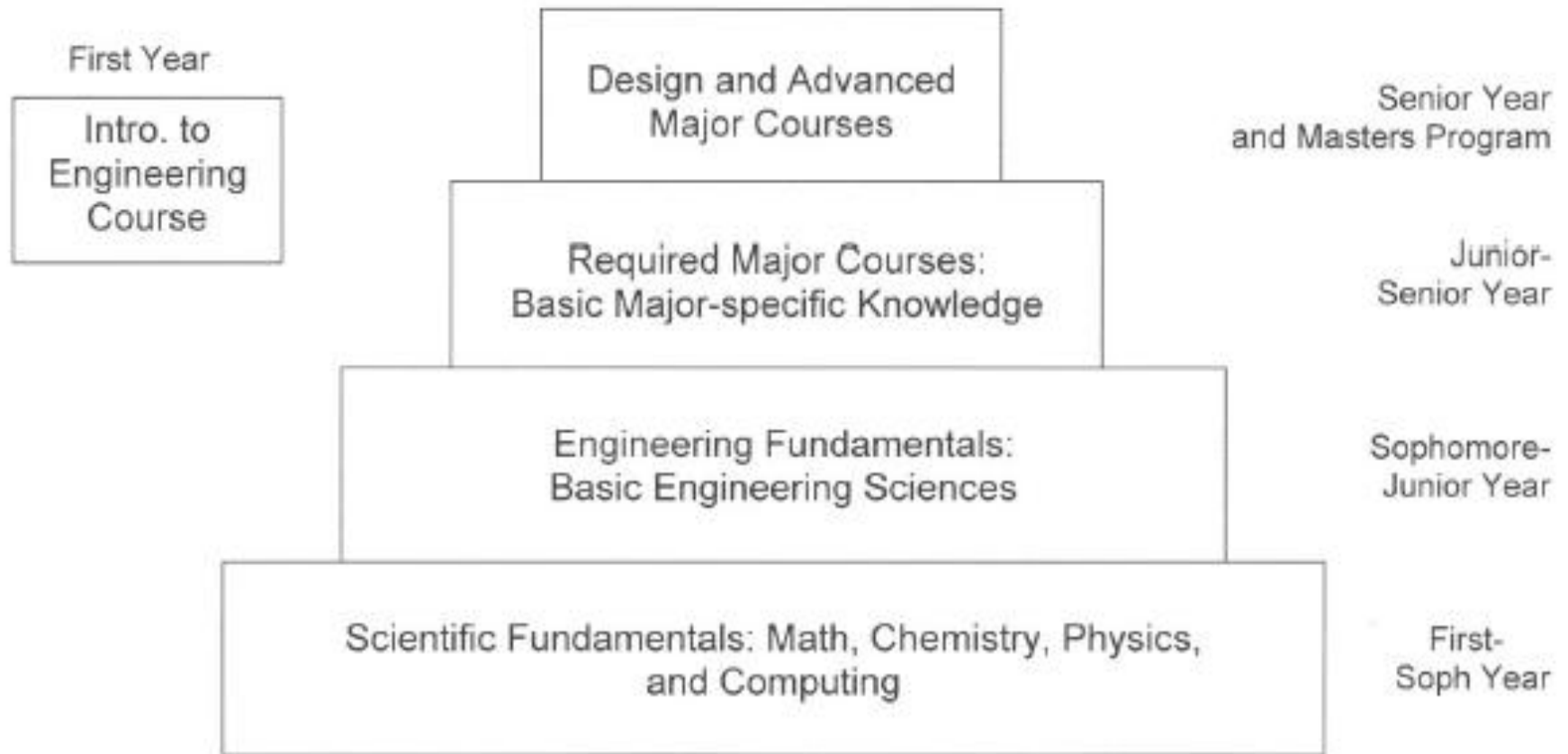
---

- Monday afternoon
  - Michael Brandon, Mengzhe Chang, Jeffrey Cheng, Kathryn Flannigan, Kevin Krieger, Ananya Mishra
  - Anybody who needs to talk before Add/Drop
- Tuesday
  - Everybody else

Course Web Page:

[http://www.cs.cornell.edu/People/tj/enrg1050\\_fall09/](http://www.cs.cornell.edu/People/tj/enrg1050_fall09/)

# Fundamental Pyramid of Engineering Curriculum



Students who want to take Major and advanced Major courses before junior & senior years can do so by being creative about the order in which they take courses. Look at course prerequisites and talk to instructors.



# Majors (See Undergraduate Handbook)

---

- Majors: 12 Undergraduate Majors from which to choose.
- Independent Major: An opportunity to design your own engineering-based major. (Visit Engineering Advising, 167 Olin Hall, for details.)
- Students must be successfully “affiliated” with a major (or the Independent Major) by the end of the sophomore year.


Requirements for affiliation and flowcharts for each major begin on page 25.



# Minors (See Undergraduate Handbook)

---

- Minors: 17 Engineering Minors from which to choose. Requirements for the Engineering Minors begin on page 83.
- Applied Economics & Management (AEM) Minor offered by College of Agriculture. Available to Engineering students except OR majors. Application required before beginning the AEM Minor. (Visit Engineering Advising, 167 Olin Hall, for details.)
- Minors/Concentrations in other subjects may also be possible. (For more information, visit the undergraduate office of the subject area in which you are interested.)



# Requirements for the BS Degree

## (See Handbook, Page 12)

---

- ❑ Mathematics (15-16 credits)
- ❑ Chemistry (4-8 credits)
- ❑ Physics (8-12 credits)
- ❑ Computer Programming (5 credits)
- ❑ Intro to Engineering (ENGRI)-(3 credits/1 course)
- ❑ First-Year Writing Seminars (6 credits/2 courses)
- ❑ Physical Education (2 credits/2 courses) + swim test
- ❑ Liberal Studies Distribution (18 credits/6 courses)
- ❑ Advisor Approved Electives (6 credits/2 courses)
- ❑ Technical Writing Requirement
- ❑ Engineering Distribution (ENGRD)-(6 credits/2 courses)
- ❑ Major Program+ Electives (48 credits)
- ❑ Total Credits Required = 124-134



# Fall Course Enrollment

---

- By now, most students have enrolled in:
  - ENGRG 1050 (Advising Seminar)
  - Appropriate Math
  - Appropriate Science (Chemistry or Physics)
  - ENGRI (Intro to Engineering) or Intro to Computing
  - Optional Academic Excellence Workshop(s) (AEW)
  - First-Year Writing Seminar (FWS)
  - Physical Education (PE)





# ENGRG 1050

---

- Advising Seminar—Assigned by faculty advisor (required)
  - Pre-enrolled by Advising Office
  - Enrollment is locked and cannot be changed without also changing faculty advisor (petition and permission from new advisor required)
  - Other schedule changes should be made around this class, whenever possible



# Engineering Math Course

---

- MATH 1910, 1920, 2930, 2940
  
- Enrollment is based on:
  - AP, GCE, IB, Transfer Credit
  - Cornell Advanced Standing Exam (optional)
  - Whether or not you wish to accept credit



# CHEM 2090

---

## □ CHEM 2090

- Enrollment is VERY limited for Fall
- Postpone CHEM 2090 to Spring, if at all possible
- CHEM 2090 Waitlist available at:  
<http://www.chem.cornell.edu/courses/adddrop.asp>
- Questions about CHEM 2090 enrollment? Visit Engineering Advising, 167 Olin Hall



# Physics

---

- PHYS 1112 or PHYS 2213
  - Students are strongly encouraged to enroll in physics in the first term if:
    - They have the appropriate math prerequisite or AP credit
    - They are interested in majors which only require one semester of chemistry (which can be taken in spring)
    - Honors versions (1116 and 2217 also available)



# Accepting AP Credit for Science?

---

- Accepting AP/Transfer Credit for CHEM 2090?
  - Consider taking the honors version (CHEM 2150)
  - Consider not taking a science in the Fall term, or take physics if you have the appropriate math prerequisite
  
- Accepting AP/Transfer Credit for PHYS 1112?
  - Consider taking the honors version (PHYS 1116)
  - Consider not taking a science in the Fall term, and take CHEM 2090 in the Spring



# Intro to Computing or ENGRI?

---

- Most students opt to take one in the Fall, the other in the Spring
- If you are not taking a science class in the Fall, consider taking BOTH an ENGRI and Intro to Computing this term
- For those taking Intro to Computing, several options will be explained during the first day of class. (see next slide) Intro to Computing is offered both Fall and Spring semesters.
- Intro to Computing classes tend to be smaller in the Fall, which means more personalized attention. No prior programming experience is required/assumed.



# Intro to Computing Options

---

- Students may choose any of the following options, which will be explained on the first day of class.
  - CS 1110: Intro to Computing using Java
  - CS 1112: Intro to Computing using MATLAB
  - CS 1113: Intro to Computing/Java Honors (Not offered in 09-10)
  - CS 1114: Intro to Computing/Robotics (MATLAB)—Offered Spring only in 09-10




# and...CS Transition Classes

---

- One-credit courses designed to help students learn/apply a second computing language.
  - Usually taken in the sophomore year
  - Grading is S/U only
  
- Two options:
  - CS 1130-Transition to OO Programming
    - (for students who took CS 1112 or 1114)
  - CS 1132-Transition to MATLAB
    - (for students who took CS 1110 or 1113)





# Academic Excellence Workshops (AEW)-Optional

---

- AEWs are small group, active-learning sessions that complement core engineering courses (Intro to Computing, CS 2110, CHEM 2090, and all MATH courses)
  
- AEWs:
  - Meet for two hours each week
  - Utilize upper-class student facilitators
  - Are not remedial; work on material that is at or above the level being taught in lecture
  
- Enrollment is optional
  
- For details, visit Engineering Learning Initiatives, 167 Olin Hall or [www.engineering.cornell.edu/aew](http://www.engineering.cornell.edu/aew)



# First-Year Writing Seminar (FWS)

---

- Most students have already enrolled by the balloting process, July 30-August 9
- Need to change your FWS? Electronic add/drop opens Tuesday, August 25, at 9:00 AM



# Physical Education Course Enrollment

---

- Most students have already enrolled on-line using Student Center
  
- You may also visit Teagle Hall to sign up in person:
  - Tuesday, August 25, 9 AM-4 PM
  - Wednesday, August 26, Noon-4 PM
  - Last Day to drop a PE class is Friday, September 11th
  
- Be sure to take your swim test!
  - [www.swimtest.cornell.edu](http://www.swimtest.cornell.edu)



# Liberal Studies Requirement

## (See Handbook, Page 17)

---

- Engineering students must complete a minimum of 6 courses/18 credits in at least 3 of the following 6 categories, prior to graduation:
  - Cultural Analysis (CA)
  - Historical Analysis (HA)
  - Literature and the Arts (LA)
  - Knowledge, Cognition, and Moral Reasoning (KCM)
  - Social and Behavioral Analysis (SBA)
  - Foreign Languages (FL)
  
- At least 2 of the courses must be at the 2XXX-level or higher
  
- The complete Liberal Studies policy and a comprehensive list of approved courses can be found on the Engineering website at:  
<http://www.engineering.cornell.edu/programs/undergraduate-education/degree-requirements/liberal-studies.cfm>



# By the end of your first year...

---

- You should have completed (or earned credit for) the following:
  - 2 Engineering Math (from 1910, 1920, 2930, 2940)
  - 2 Engineering Science (Chemistry/Physics, or one of each, as appropriate)
  - 1 ENGRI
  - Intro to Computing (CS 1110, 1112, 1113, or 1114)
  - 2 First-Year Writing Seminars
  - 2 PE Classes/pass swim test
  - Have academic plan to meet affiliation criteria for your intended major



# Advanced Placement Credit

---

- ❑ Awarded in accordance with College of Engineering/CU Policy (See <http://www.engineering.cornell.edu/student-services/academic-advising/academic-information/ap-credit/ap-credit-table.cfm> for details.)
- ❑ To view your awarded advanced placement credit, please see:  
<http://studentcenter.cornell.edu>
- ❑ You are not required to accept advanced placement credit. To decline credit, simply enroll in the corresponding Cornell course for which you received advanced placement credit.
- ❑ If you have questions about your advanced placement award, please contact the Engineering Registrar's Office, 158 Olin Hall.



# Transfer Credit

---

- May be offered for courses taken at other colleges/universities if:
  - The course was taught at another college by college faculty (not in the high school) and;
  - The course was not used toward high school graduation requirements and;
  - CU faculty determine that the course is equivalent to a required course at Cornell.



# Transfer Credit-To apply...

---

- Students need to submit:
  - A course description or syllabus for the course
  - An official transcript from the offering institution
  - Letter from the high school stating that the course was taught in a college setting by college faculty, and was not used to meet high school graduation requirements
  
- Contact Mary Glick in Engineering Advising, 167 Olin Hall, if you wish to apply or have questions about the process.





# Engineering Handbook

---

- Your primary resource for Engineering requirements/information
  
- Hold on to your copy; You only get one.
  
- Also available online at:
  - <http://www.engineering.cornell.edu/student-services/academic-advising/engineering-handbook/index.cfm>



# Add/Drop Process

---

- Add/Drop most courses using:  
<http://studentcenter.cornell.edu>
- Add/Drop begins Tuesday, August 25 at 9:00 AM  
(If you need help, contact your Peer Advisors.)
- Last day to add a class is September 18 at 4:00 PM;  
last day to drop is October 16<sup>th</sup> at 4:00 PM