Advising 101

• What was in your Toolbox 4 years ago?

• Learn how to learn…
  What can you add to your toolbox?

• Basic Knowledge:
  Math, Science, and computational skills are fundamental to engineering, but so are…

• Attitudes & Behaviors:
  Creativity and Innovation; Global Perspective; Teamwork and Leadership; Ethical Reasoning; Entrepreneurial Thinking

• What will you need in your Toolbox in 4 years?
Is CEE a Good Choice?

The college majors most and least likely to lead to underemployment

% saying they are underemployed in a recent PayScale survey, by undergraduate major

**Most** underemployed majors

- CRIMINAL JUSTICE
- BUSINESS MANAGEMENT & ADMINISTRATION
- HEALTH CARE ADMINISTRATION
- GENERAL STUDIES
- SOCIOLOGY
- ENGLISH LANGUAGE & LITERATURE
- GRAPHIC DESIGN
- LIBERAL ARTS
- EDUCATION
- PSYCHOLOGY

**Least** underemployed majors

- CIVIL & ENVIRONMENTAL ENGINEERING
- AEROSPACE ENGINEERING
- COMPUTER ENGINEERING
- CHEMICAL ENGINEERING
- LAW
- PHYSICS
- MECHANICAL ENGINEERING
- ELECTRICAL ENGINEERING
- GEOLOGY
- MATHEMATICS

Source: PayScale
Freshmen Advising Topics

• The UG Advising Process
• The UCI General Catalogue
• Programs, Policies, Participation, Performance
• Academic Honesty
• Performance Assessment and Accreditation
• Questions? E-mail us at:  
  mmcnally@uci.edu or bidui@uci.edu
• Answers? Read your UCI e-mail regularly!
Freshmen Advising Process

- **Faculty** advising *complements* other forms of advising:
  - HSSOE Counselors, Peer Advising, Professional mentors

- **Annual Process:** *every year!*

- **Format:** Each entering class will keep the same group of *faculty advisors* throughout the degree program

- **Mandatory Process:**
  - **Group Advising:** sessions for Freshmen in the Fall and separate sessions for Sophomores and for Juniors in the Winter
  - **Individual Advising:** select a faculty member by name, teaching and research area, or session format (sign-up on-line)

- **Freshmen** are *recommended* to see a faculty advisor often, but *must* see an advisor at least once per year.

- **Penalty:** Registration Hold (not a good thing!)
Group Advising

• **Q1. Are you currently a freshman or transfer?**
  If you are new to the CE or EnE programs this fall, you are either a freshman or a transfer, taking math/science courses and planning to take the 2nd year LD core next year (CEE11, 21, 30, 81A, 81B)

• **Q2. Is your current Program of Study valid?**
  If not, you must meet with an HSSoE undergraduate counselor to update this form to ensure meeting program requirements.

• **Q3. Are you scheduled for individual advising?**
  After this group session, you must register online for an individual faculty advising session to be held over the next few weeks.

• **Sign and Return!**
Individual Advising

• All freshmen must schedule an appointment with a freshman faculty advisor this quarter.
  You will receive an email with a web link to select an advisor. Your advisor will then email you with available advising slots scheduled over the next few weeks.
  FAQ: http://www.its.uci.edu/~mmcnally/FAQ-Fresh-advising.html

• All transfer students will be assigned to an appropriate faculty cohort for advising
  – Sophomores, juniors, and seniors will meet with their faculty advisors after the Winter group sessions
  FAQs: http://www.its.uci.edu/~mmcnally/FAQ-advising.html
Advising FAQs

FAQs: CEE Freshmen Advising Process [2014-2015]

• Why Do We Have Faculty Advising for Undergraduates?

The simple answer is that annual faculty advising of undergraduate students is required for engineering degree program accreditation; a degree from an accredited engineering program is required to qualify for professional registration; and professional registration is required for engineering practice. The advising process, however, exists for many practical reasons. Our program requirements change often thus regular meetings with students are the best way to provide the information on current program and planned changes. In this regard, faculty advising complements but does not replace annual meetings with Samueli School of Engineering undergraduate counselors to develop a Plan of Study. The faculty advising process also provides an opportunity for students to discuss a broad range of issues with program faculty, whether involving degree issues, specialization choices, career opportunities, or even professional practice. It provides a good deal of potential opportunity at a very low cost.

• What Is the CEE Faculty Advising Process for Freshmen?

Many academic programs assign freshmen to advisors, faculty who will remain in that capacity as the student proceeds through the program. This fixed reference point is a benefit to many students who have questions throughout the year. We have chosen to assign freshmen to a group of faculty advisors, providing a fixed
Advisers: Freshmen 2014-15 (Class of 2018)

Dr. Amir Aghakouchak  
ET 506A  
Water/Environmental  
CEE81B, CEE173  
amir.a@uci.edu

Dr. Betty Olson  
ET 844  
Water/Environmental  
CEE60  
bholson@uci.edu

Dr. Will Recker  
AIRB 4074  
Transportation  
CEE 111  
wwrecker@uci.edu

Dr. Lizhi Sun  
EG 4139  
Structures  
CEE 30, CEE 152  
lsun@uci.edu
Structural Engineering Faculty

Dr. Mosallam
EG 4149
Composite Structures
CEE 151C, ASCE

Dr. Sun
EG 4139
Mechanics
Composites
CEE 30, CEE 152

Dr. Lemnitzer
EG 4149
Geotechnical
CEE130, CEE156

Dr. Zareian
EG 4141
Earthquake Engr
CEE 150, CEE151A

CEE@UCI
Hydrology & Water Resources Faculty

Dr. Detwiler, ET 844C
Groundwater Hydrology
CEE 171, CEE 172

Dr. Sanders, ET 844D
Computational Hydrodynamics
CEE 170

Dr. Sorooshian, EH 5308
Hydrologic Systems
CEE 176

Dr. Vrugt, ET 844E
Systems Modeling
CEE 20, CEE21

Dr. Aghakouchak
ET 506A
Remote Sensing
CEE81b, CEE173

Dr. Hsu, EH 5320
Hydrologic Modeling
CEE30

CEE@UCI
Water (cont’d.)  Environmental Faculty

Dr. Davis, ET 544E  Coastal Engineering  CEE 178

Dr. Cooper, ET 305  Environmental Chemistry  CEE 162

Dr. Jiang, ET 716E  Water Quality  CEE 160, CEE 169

Dr. Grant, ET 944D  Environmental Engr  CEE178

Dr. Rosso, ET 844F  Environmental Processes  CEE163, CEE165  EnE UG Advisor

Dr. Olson, ET 844  Environmental Microbiology  CEE 60
Transportation Systems Engineering

Dr. Jay, AIRB 4055
Transport Systems Anlys
CEE 81a

Dr. Jin, AIRB 4038
Traffic Flow, ITS
CEE 11, CEE122

Dr. McNally, AIRB 4048
Travel Behavior & Modeling
CEE123, CEE181abc

Dr. Recker, AIRB 4074
Transport Systems Anlys
CEE 111

Dr. Ritchie, AIRB 4014
ITS, Emerging Technology
CEE121, CEE124

Dr. Saphores, AIRB 4028
Transport Planning & Policy
CEE 110, CEE125
Freshmen Issues

• What’s New?
  – Freshman Seminar (Engr7A-B) …
  – Gen Ed and CEE60 versus SocEcol E8
  – Science Requirements (Chem, Physics, plus other)
  – Engineering Science Elective & Engr. Design Elective

• Grades and pre-requisites

• Choices:
  – Degree programs, Specializations, Minors
  – Student Clubs & Professional Associations, E-Week

• Assessment (ABET) & Registration (FE, PE)

CEE@UCI
ABET Program Assessment

1. **Stakeholders**: students, faculty, alumni, and employers

2. **Program Educational Objectives**: accomplishments of graduates expected by a few years after graduation

3. **Student Learning Outcomes**: knowledge and skills to be attained by the time of graduation

4. **Course Outcomes** (or Performance Criteria) are restatements of Program Outcomes that define specific knowledge and skills to be attained in a specific course

5. **Degree Requirements** comprise core, specialization, labs, General Ed, and a capstone design experience
CE Program Educational Objectives:

Describe the expected accomplishments of graduates during the first few years following graduation. Our graduates are expected to:

1. Establish a Civil Engineering career in industry, government, or academia and achieve professional licensure as appropriate.
2. Demonstrate excellence and innovation in engineering problem solving and design in a global and societal context.
3. Commit to lifelong learning and professional development to stay current in technology and contemporary issues.
4. Take on increasing levels of responsibility and leadership in technical and/or managerial roles.

Note: EnE PEOs are virtually identical
CE and EnE Student Learning Outcomes:
Describe what students are expected to know or be able to do by graduation (a-k)

a. An ability to apply knowledge of mathematics, science, and engineering.

b. An ability to design and conduct experiments, as well as to analyze and interpret data

c. An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

d. An ability to function on multidisciplinary teams

e. An ability to identify, formulate, and solve engineering problems
CE and EnE Student Learning Outcomes (continued)

f. An understanding of professional and ethical responsibility

g. An ability to communicate effectively

h. The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context

i. A recognition of the need for, and an ability to engage in life-long learning

j. A knowledge of contemporary issues

k. An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.
ENGRCEE 20 INTRODUCTION TO COMPUTATIONAL ENGINEERING PROBLEM SOLVING
(Required for CE and EnE. Selected Elective for MSE.)

Catalog Data: ENGRCEE 20 Introduction to Computational Engineering Problem Solving (Credit Units: 4) Introduction to computer programming within a numerical computing environment (MATLAB or similar) including types of data representation, graphical display of data, and development of modular programs with application to engineering analysis and problem solving. CEE20 and ENGR15 may not both be taken for credit. Civil Engineering and Environmental Engineering Engineering majors have first consideration for enrollment. Only one course from ENGRCEE 20, ENGR 15 may be taken for credit. (Design units: 1)


Rec Textbook: None

References: Student Edition of Matlab, Mathworks. (recommended)

Coordinator: Jasper Alexander Vrugt

Relationship to Student Outcomes
This course relates to Student Outcomes: EAC a, EAC b, EAC c, EAC e, EAC g.

Course Learning Outcomes. Students will:
1. Use Matlab to perform a range of matrix and vector operations. (EAC a)
2. Use Matlab to write computer programs, structures and functions (subroutines). (EAC a, EAC c)
3. Use Matlab to plot data and mathematical functions. (EAC a, EAC g)
4. Use Matlab to find roots of nonlinear equations. (EAC a, EAC e)
5. Use Matlab to perform least-squares fitting of a curve to data. (EAC a, EAC b)
6. Use Matlab skills in the context of a design process which leads to a modeling tool useful for engineering analysis purposes. (EAC c)
7. Prepare a report that describes an analysis tool (computer model) for an engineering system or components, the purpose for this tool, and an application of it. (EAC g)

http://plaza.eng.uci.edu/course/outline/engrcee/
CE Course Requirements 1

**Mathematics and Basic Science (48 units)**
- Math2A-B-D-E, 3A-D
- Phys7C-D and 7LC-D, Chem 1A-B, Chem 1LE
- Science Elective (one BioSci or ESS course from list)

**General Education Requirements (44+ units)**
- Provides flexibility, overlaps encouraged, etc.
- Engineering Professional Topics Courses include Economics 20A-B and CEE60 (or SocEcol E8)
- E190W Upper Division Writing
**Engineering Topics Courses (77 units):**

- **LD Core:** CEE 11, 20, 21, 30, 81A-B
- **UD Core:** CEE 110, 111, 121, 130, 130L, 150, 150L, 151A, 151C, 160, 170, and 171
- **Engr Sci Elective:** (Engr7A-B, EECS70A, Engr54, MAE80, MAE91)
- **Engr Design Elective:** (one of 155, 172, 122 or 123)
  (No double counting!)
- **Senior Design Practicum:** CEE 181A-B-C

**Specialization or Concentration (16+ units)**

- Must complete senior design project in same area

**Summary**

- A nominal total of 187 units (22+ design units)
## BSCE: Freshman 2014-2015

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- Gen Ed Recommendation: WR39B-C, CEE60
- Science Elective: NOT chemistry or physics
- Engr1A-B Option (freshmen only)
### BSCE: Sophomore 2015-2016

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- Gen Ed Recommendation: Econ 20A-B, **CEE60**
- **Engr Science** Elective: EECS70A, ENGR54, **MAE80**, MAE91
- CEE81A is pre-requisite for CEE81B (do not delay!)
# BSCE: Junior 2016-2017

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- Civil Engineering “core”; *pre-requisites are important!*

2014
### BSCE: Senior 2017-2018

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- **Engr Design** Elective (122, 123, 155, or 172) – quarter varies!
- **Specialization Elective:** flexibility with 4th course!
Specializations 1

General Civil Engineering:
Requires four (three) courses from CEE122 or CEE123; CEE152, CEE153, CEE155, or CEE156; CEE162, CEE163, CEE165, or CEE167; CEE172, CEE173, CEE176, or CEE178; or CEE55 or courses from an approved list.

Environmental Hydrology & Water Resources:
Requires four (three) courses from CEE162, 163, 165, CEE172, 173, 176, or 178, or courses from an approved list.
Specializations 2

**Structural Engineering:**
Requires CEE153 and three (two) courses from CEE149, CEE152, CEE155, CEE156, MAE157, or courses from an approved list [requires CEE155 as the Engr Design Elective]

**Transportation Systems Engineering:**
Requires CEE122 and CEE123, and two (one) courses from CEE124, CEE125, E189, EECS70A, MAE140, MAE170, MAE171, or courses from an approved list.

**Note:** the 4th course is any UD HSSOE technical elective
Effective fall 2013, concentrations are no longer options in the BSCE program.

All BSCE majors must choose one of the specializations as part of their degree program.

All BSCE and BSEnE majors must do a senior design (CEE181) project in the area of their specialization.
Key Pre-requisites

BSCE Prerequisite Chains for CEE181ABC

Pre-requisite 181A-B-C  Co-requisite

1 60 123 151B 163 172
55 122 152 167 173
80 124 153 168 176
111 125 155 169 178
156 162

Note:
a. Math and science pre-reqs are not shown
b. For 2 through 7, specific pre-reqs are not shown
c. For 1, there are no CEE pre-reqs

2014
EnE Program Educational Objectives:

Describe the expected accomplishments of graduates during the first few years following graduation. Our graduates are expected to:

1. **Establish an Environmental Engineering career in industry, government, or academia and achieve professional licensure as appropriate.**
2. **Demonstrate excellence and innovation in engineering problem solving and design in a global and societal context.**
3. **Commit to lifelong learning and professional development to stay current in technology and contemporary issues.**
4. **Take on increasing levels of responsibility and leadership in technical and/or managerial roles.**
EnE Course Requirements 1

Mathematics and Basic Science (64 units)
• Math 2A-B-D-E, 3A-D
• Phys 7C-D, 7LC-D
• Chem 1A-B-C, 1LC-D, 51A
• 4 units of Earth System Science and 4 units of Biological Sciences (*must choose from approved list*)

General Education Requirements (44+ units)
• Engineering Professional Topics Courses include:
• Economics 20A-B and CEE60 (or Soc Ecol E8)
• E190W for Upper Division Writing
EnE Course Requirements 2

**Engineering Topics Courses (81+ units):**

- **LD Core:** CEE 11, 20, 21, 30, 81A, 81B, MAE91
- **UD Core:** CEE 110, 130, 130L, 150, 150L, 160, 162, 170
- **Engr Sci Elective:** (Engr7A-B, EECS70A, Engr54, MAE80)
- **Senior Design Practicum:** CEE 181A-B-C
- **Engineering Electives (2 from 2 areas/1 from other):**
  - Water Supply and Resources (CEE171, 172, 173, 176, 178, ESS132)
  - Environmental Processes (CEE163, 165, 167)
  - Atmos Systems & Air Poll Control (MAE110, 115, 164, ESS 112)

- A nominal total of 189 units

- *Must verify Program of Study and unit counts with UG Office*
## BS EnE: Freshman 2014-2015

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- Gen Ed Recommendation: WR39B-C or CEE60
- Engr 1A-B Option (freshmen only)
## BS EnE: Sophomore 2015-2016

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- Gen Ed Recommendation: CEE60
- **Engr Science** Elective: EECS70A, ENGR54, MAE80, etc.
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- Consider pre-requisites!
- Science Electives: 1 each in Bio Sci and Earth Systems Sci
## BS EnE: Senior 2017-2018

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- Spread Gen Ed (include Econ 20A-B, UD Writing)
- Consider pre-requisites for Science and Engineering Electives
1. General Education requirements:
   - Writing (3 courses: 2 LD and 1 UD)
   - Arts and Humanities (3 courses)
   - Social and Behavioral Sciences (3 courses)
   - Multicultural Studies / International Issues (1)

2. BSCE and BSEnE already cover:
   - Science and Technology
   - Quantitative, Symbolic, Computational Reasoning

3. Need to consult with HSSoE counselors
Fall 2011 Course Learning Outcome Surveys Now Open
Engineering course learning outcomes surveys are once again available. Students are asked to complete a brief survey for each enrolled undergraduate Engineering course. These are similar to teaching evaluations but rather than focus on the quality of instruction, they focus on whether students have met the outcomes determined for each course. Course learning outcome surveys will remain open until January 8, 2012.

Winter 2011 Course Learning Outcome Surveys Now Available
Engineering course learning outcomes surveys are once again available. Students are asked to complete a brief survey for each enrolled undergraduate Engineering course. These are similar to teaching evaluations but rather than focus on the quality of instruction, they focus on whether students have met the outcomes determined for each course. Course learning outcome surveys will remain open until March 20, 2011.

Fall 2010 Course Learning Outcome Surveys Now Available
Engineering course learning outcomes surveys are once again available. Students are asked to complete a brief survey for each enrolled undergraduate Engineering course. These are similar to teaching evaluations but rather than focus on the quality of instruction, they focus on whether students have met the outcomes determined for each course.

Fall 2010 course learning outcome surveys are now closed. Thank you for participating.

http://plaza.eng.uci.edu

CEE@UCI
CEE UG Programs

The Civil and Environmental Engineering Department offers degree programs in civil engineering and environmental engineering. We emphasize our students' education while consistently meeting industry needs by developing cutting-edge technology in earthquake and structural engineering, transportation systems, and water resources and environmental systems.

Our philosophy is to create and maintain partnerships with our students, as well as industry colleagues, to engineer the future at UC Irvine. As an undergraduate student, you will have the opportunity to take classes from world-class scholars and participate in research projects.

- Major in Civil Engineering
- Major in Environmental Engineering

[Link to the General Catalogue for more information]

DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
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GENERAL STUDENT INFORMATION
- Admissions Information
- CEE Faculty Advising
- General Undergraduate Information
- Frequently Asked Questions
- Undergraduate Research Opportunities

Schedule a Visit to the CEE Department

http://www.eng.uci.edu/dept/cee/
Civil and Environmental Engineering offers annual scholarship opportunities for qualified undergraduate students:

- **Emeriti Scholarships**, supported by the UCI CEE Affiliates:
  - Jan Scherfig Scholarship: for *freshmen* returning in the fall
  - Gary Guymon Scholarship: for *sophomores* returning in the fall
  - Robin Shepherd Scholarship: for *juniors* returning in the fall

- **Huit Zollars Civil Engineering Scholarship**:
- **Applications** for the $1,000 scholarships are submitted online in Winter Quarter (check your UCI email!)
- Other HSSOE and UCI Scholarships:
  
  [http://www.ofas.uci.edu/content/Scholarships.aspx](http://www.ofas.uci.edu/content/Scholarships.aspx)
Academic Honesty

- Civil and Environmental Engineering is perhaps at the pinnacle of the practice of, and the need for, ethical behavior.
- At you progress through the program, any form of cheating decreases in benefit (on grades) and increases in cost (of not finishing your degree).
- The UCI Policy on Academic Honesty is defined at: http://www.editor.uci.edu/catalogue/appx/appx.2.htm#academic
- Take note of the descriptions of cheating, dishonest conduct, plagiarism, and collusion.
- Ask your instructors to discuss course policies on Academic Honesty, including policies on joint work on HW, labs, or other required tasks.
- “Cheaters” are posted on-line at: http://honesty.uci.edu/blotter.html
1. **Profession Registration**: licensure as a professional engineer is required to practice as a civil or environmental engineer.

2. **Steps Toward Licensure: First…**
   a. Complete a BS from an accredited institution (UCI!)
   b. Successfully complete the *Fundamentals of Engineering* (FE) exam (material covered includes physics, chemistry, thermo, circuits, mathematics, statics & dynamics, engineering economics, fluids, engineering ethics, strength of materials, computers, etc.)

3. **Steps Toward Licensure: Then…**
   a. After 2 years of work under professional engineers …
   b. … soon 30 units of post-graduate continuing education
   c. Successfully pass the *Principles and Practice of Engineering* (PE)
   d. [http://www.ncees.org/exams/professional/](http://www.ncees.org/exams/professional/)
Why study Civil Engineering abroad?

"As a Civil Engineering student studying abroad, you will gain exposure to different modes of problem solving, leading toward different approaches to the design and implementation of civil engineering projects. In light of the increasing globalization of engineering practice, this acquired knowledge will likely be beneficial in your future engineering career. You will see the significance of US building codes and how these are implemented in other countries, as well as how the US adopts sections of engineering building codes from other countries. EAP programs often have more academic support staff to assist engineering professors with computing, wet/dry, and field labs, which leads toward more meaningful laboratory experiences. Not only will EAP be one of the most memorable times in your life, the international experience will open a world of engineering opportunities in your future."

Professor Michael McNally
Department of Civil & Environmental Engineering

http://www.cie.uci.edu/academics/ce.html
Student Clubs

UCI Student Chapter of the Institute of Transportation Engineers

UCI Student Chapter of the Institute of Transportation Engineers (ITE) is an international educational and scientific association. As one of the largest and fastest-growing professional transportation organizations in the world, ITE members include engineers, planners, and other transport professionals who are committed to improving society's need for safe and efficient transportation. UCI ITE Student Chapter is one of the nation's eight existence campus chapters.

http://www.its.uci.edu/ite/

American Academy of Environmental Engineers at UC Irvine

Professional engineering chapter at UCI for engineers interested in the environment:

- learn outside of the classroom with your peers
- discover the diversity of environmental topics
- network with industry after graduation

Meetings: Wednesdays of Even Weeks, 5:00-7:00, ICF 103
Email: aase.ucir@gmail.com
Facebook: American Academy of Environmental Engineers at UCI

Welcome to Chi Epsilon at UCI

http://clubs.uci.edu/chiepsilon/
Summary

1. Academic Honesty…
2. Faculty Advising versus HSSOE Counselors
3. ABET evaluations versus UCI course evaluations
4. Petitions: substitutions, variations, and related issues
5. Student Clubs? [ G-E-T I-N-V-O-L-V-E-D ]
6. Research Opportunities, Internships, Jobs
7. Careers: Graduate School? (GRE)
8. Careers: Professional Practice (FE, PE)
Contact Information

HSSOE UG Affairs Office:
  1. UG Counselors in REC 305 (824-4334)

Civil & Environmental Engineering:
  1. Department Office in EG 4130 (824-5333)
  2. CEE web site: http://www.eng.uci.edu/dept/cee/
  3. CE Advisor: Professor McNally <mmcnally@uci.edu>
  4. EnE Advisor: Professor Rosso bidui@uci.edu

UCI General Catalogue: Your contract with UC

http://www.editor.uci.edu/catalogue/engr/engr.6.htm

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