Freshmen & Transfer Advising

Civil & Environmental Engineering

Fall 2018 for 2018-2019 AY

Professor M. G. McNally
Professor Diego Rosso
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?
Some Definitions

- **CEE**: Civil and Environmental Engineering
- **HSSOE**: Henry Samueli School of Engineering
- **BSCE**: Bachelor of Science in Civil Engineering
- **BSEnE**: Bachelor of Science in Environmental Engineering
- **Faculty Advising**: An annual meeting with a faculty member
- **Faculty Advisor Cohort**: the designated group of faculty members who serve as faculty advisors during your program
- **UG Advisors**: a faculty member who manages your program
- **HSSOE Counselors**: school staff that help you develop and complete your academic program
- **ABET**: accreditation organization for our engineering programs
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!
Faculty 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 cohort of faculty advisors throughout the degree program

• Mandatory Process: *Freshmen must complete either*:
  1. Group Advising: sessions for Freshmen in the Fall (and separate sessions for Sophomores and for Juniors in the Winter)
  2. Individual Advising: select a faculty member by name, teaching and research area, or even schedule availability

• Freshmen are recommended to see a faculty advisor often, but *must* meet in a group or individual session once per year.

• Penalty: Registration Hold (not a good thing!)
Group or Individual Advising

- FAQs for Freshmen faculty advising, including a list of faculty advisors, can be found at:
  
  http://www.its.uci.edu/~mmcnally/FAQ-Fresh-advising.html

- If you miss a group session, you must schedule an appointment with a faculty advisor. Call, email, or visit office hours for individual advising.

- Transfer students are assigned to an appropriate faculty cohort for advising
  
  - Sophomores, juniors, and seniors should meet with their faculty advisors in Winter group sessions
    
    http://www.its.uci.edu/~mmcnally/FAQ-advising.html
Advising FAQs

FAQs: CEE Freshmen Advising Process [2018-2019]

- **E-mail Notices on the Faculty Advising Process**

  Your official UCI email serves as the **only** communication path from the Department of Civil and Environmental Engineering regarding the mandatory Faculty Advising Process, as well as other program matters. You are solely responsible for regularly checking your UCI email and responding as appropriate. No other media options are currently used.

- **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 evolve thus regular meetings with students are the best way to provide information on current programs and planned changes. In this regard, faculty advising complements but does not replace annual meetings with Samuei School of Engineering (HSSOE) 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 cohort of faculty advisors, providing a fixed group of advisors for the same group of students over the entire time that they are in the degree program. Each advising cohort has a faculty member from each research area (structures, transportation, and water resources...
CEE Chair and UG Advisers

Dr. Jiang, Chair
AIRB 4055
Environmental
CEE 160
sjiang@uci.edu

Dr. McNally, CE UG Advisor
AIRB 4048
Transportation
CEE 123
mmcnally@uci.edu

Dr. Rosso, EnE UG Advisor
ET 844F
Environmental
CEE163, CEE165
bidui@uci.edu
Advisers: Freshmen 2018-19 (Class of 2022)

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

Dr. Ritchie  
AIRB 4014  
**Transportation**  
CEE121, CEE124  
sritchie@uci.edu

Dr. Li  
EG 4145  
**Structures**  
CEE30  
Mo.li@uci.edu

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

Dr. Sun  
EG 4139  
**Structures**  
CEE 30, CEE 152  
lsun@uci.edu

Dr. Sanders  
ET 844D  
**Water/Environment**  
CEE 170  
bsanders@uci.edu
Advisers: Sophomores 2018-19 (Class of 2021)

Dr. Jayakrishnan
AIRB 4055
Transportation
CEE 81A
rjayakri@uci.edu

Dr. Qomi
EG 4151
Structures
CEE 151a
mjaq@uci.edu

Dr. Lemnitzer
EG 4149
Geotech / Structures
CEE130, CEE156
lemnitzer@uci.edu

Dr. Hsu
EH 5320
Water Resources
CEE176
kuolinh@uci.edu

Dr. Vrugt
ET 844E
Water / Systems
CEE 20
jasper@uci.edu
Advisers: Juniors 2018-19 (Class of 2020)

Dr. Davis
ET 544E
**Water / Environmental**
CEE 21, CEE 178
davis@uci.edu

Dr. Jin
AIRB 4038
**Transportation**
CEE 122
wjin@uci.edu

Dr. Mosallam
EG 4167
**Structures**
CEE 151C
mossalam@uci.edu

Dr. Sorooshian
EH 5308
**Hydrologic Systems**
CEE 176
soroosh@uci.edu

Dr. Lanning
EG 4167
**Structures**
CEE 155, CEE 181
Joel.Lanning@uci.edu
Advisers: Seniors 2017-18 (Class of 2019)

Dr. Zareian
EG 4141
Structures
CEE150
zareian@uci.edu

Dr. Saphores
AIRB 4028
Transportation
CEE111
saphores@uci.edu

Dr. Hyland
AIRB 4022
Transportation
CEE110
hylandm@uci.edu

Dr. Detwiler
ET 716E
Water/Environ
CEE171, CEE172
detwiler@uci.edu

Dr. Lanning
EG
Structures
CEE 155, CEE 181
bsanders@uci.edu

Dr. Adeyele
ET 516F
Transportation
Adeyemi.adeyele@uci.edu
Freshmen Issues

Important Information for Freshmen & Transfers:
• Who are your Faculty Cohort Advisors?
• Who are your HSSOE Counselors?
• Grades and pre-requisites
• Plan of Study (see counselors in UG Office)

Important Information for Subsequent Years:
• Program choices:
  – Degree programs, Specializations, Minors
  – Student Clubs & Professional Associations
• Assessment (ABET) & Registration (FE, PE)
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 Outcomes (ABET 1-7):

By graduation, students must have the ability to:

1. to **identify**, **formulate**, and **solve** complex engineering problems by applying principles of engineering, science, and mathematics;

2. to apply engineering **design** to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors;

3. to communicate effectively with a range of audiences;

4. to recognize **ethical** and professional **responsibilities** in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts;

5. to function effectively on a **team** whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives;

6. to develop and conduct appropriate **experimentation**, analyze and interpret data, and use engineering judgment to draw conclusions;

7. to acquire and apply **new knowledge** as needed, using appropriate learning strategies.
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: EAC1, EAC2, EAC3, EAC6.

Course Learning Outcomes. Students will:
1. Use Matlab to perform a range of matrix and vector operations. (EAC1)
2. Use Matlab to write computer programs, structures and functions (subroutines). (EAC1, EAC2)
3. Use Matlab to plot data and mathematical functions. (EAC1, EAC3)
4. Use Matlab to find roots of nonlinear equations. (EAC1)
5. Use Matlab to perform least-squares fitting of a curve to data. (EAC1, EAC6)
6. Use Matlab skills in the context of a design process which leads to a modeling tool useful for engineering analysis purposes. (EAC2)
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. (EAC3)

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
- Science Elective (one BioSci or ESS course from list)

**General Education Requirements (44+ units)**
- Provides flexibility, overlaps encouraged, etc.
- Engineering Professional Topics include Econ 20A-B and CEE60 (or SocEcol E8), E190W UD 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
- Elective (two from Chem1LE, ENGR7A-B, LDEE)
  where LDEE is one of (EECS70A, Engr54, MAE80, MAE91)
- Senior Design Practicum: CEE 181A-B-C

Specialization (16 units)

- Must complete senior design project in same area

Summary: A nominal total of 184 units (22+ design units)
### BSCE: Freshman 2018-2019

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- Science Elective: BioSci or ESS (NOT chemistry or physics)
- * Engr7A-B Option (Lower Division only)
### BSCE: Sophomore 2019-2020

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- Gen Ed Recommendation: Econ 20A-B, **CEE60**
- LD Engr Elective: EECS70A, ENGR54, **MAE80**, MAE91
### BSCE: Junior 2020-2021

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- Civil Engineering “core”; *pre-requisites are important!*
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- **Specialization Elective:** flexibility with 4th course!
Specializations 1

General Civil Engineering:
Requires four (three) courses from CEE122 or CEE123; CEE149, CEE151b, CEE152, CEE155, or CEE156; CEE162, CEE163, CEE165, or CEE169; CEE172, CEE173, CEE176, or CEE178; or CEE55 or courses from an approved list.

Environmental Hydrology & Water Resources:
Requires four (three) courses from CEE163, 164, 165, 169, CEE172, 173, 176, or 178, or courses from an approved list.
Specializations 2

Structural Engineering:
Requires CEE155, and three (two) courses from CEE149, CEE151B, CEE152, CEE156, MAE157, or courses from an approved list.

Transportation Systems Engineering:
Requires CEE122 and CEE123, and two (one) courses from CEE124, CEE125, Engr189, EECS70A, or courses from an approved list.

Note: 4\textsuperscript{th} course may be any UD HSSOE technical elective
Pre-requisites are Important!

BSCE Prerequisite Chains for CEE181ABC [2016-2017]

Pre-requisite:
- 1: 60, 123, 149, 163, 172
- 2: 55, 122, 151B, 164, 173
- 5: 80, 124, 152, 165, 176
- 6: 111, 125, 155, 169, 178
- 7: 156

Co-requisite:
- 2: 60, 123, 149, 163, 172
- 7: 55, 122, 151B, 164, 173
- 6: 80, 124, 152, 165, 176
- 1: 111, 125, 155, 169, 178

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
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
• LD Engr 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, 169)
  – Atmos Systems & Air Poll Control (MAE110, 115, 164, ESS 112)

• A nominal total of 189 units

• Must verify Plan of Study and unit counts with UG Office
### BS EnE: Freshman 2018-2019

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- Gen Ed Recommendation: WR39B-C or CEE60
- Engr 7A-B Option (lower division only)
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- Gen Ed Recommendation: CEE60
- **Engr Science** Elective: EECS70A, ENGR54, MAE80, etc.
## BS EnE: Junior 2020-2021

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- Consider pre-requisites!
- Science Electives: 1 each in Bio Sci and Earth Systems Sci
### BS EnE: Senior 2021-2022

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- Spread Gen Ed (include Econ 20A-B, UD Writing)
- Consider pre-requisites for Science and Engineering Electives
General Education Requirements

1. General Education requirements:
   • I. Writing (3 courses: 2 LD and 1 UD)
   • III. Social and Behavioral Sciences (3 courses)
   • IV. Arts and Humanities (3 courses)
   • VI. Language (if not 3+ years of H.S. language)
   • VII. Multicultural Studies / VIII. International Issues (1)

2. BSCE and BSEnE already cover:
   • II. Science and Technology
   • V. Quantitative, Symbolic, Computational Reasoning

3. Need to consult with HSSoE counselors
Fall 2018 NOR Caps

New Only Reserved Seats (NOR Caps) have been lifted.

Fall 2018: MAE 60 & MAE 151

MAE 60 ELECTRIC CIRCUITS and MAE 151 MECH ENGR DESIGN are now open for enrollment.

Fall 2018: ENGRMAE 108 (Major Restriction)

ENGRMAE 108 is now open to both Aerospace Engineering majors and Mechanical Engineering Majors.

Fall 2018: CSE 112 (enrollment)

Additional seats have been added to CSE 112 ELECTRON DEV & CIRC.

CSE Course Designations (click to expand)

All CSE Majors.

The CSE course designation have been merged with EECS, ICS, and CS courses. This will eliminate confusion between the two separate CSE course codes.

Fall 2018: MAE/CEE/ENGR 30 DIS

Additional seats have been opened in MAE/CEE/ENGR 30 DIS A2.

Fall 2018: ENGR 190W (course restrictions)

All Seniors are now able to enroll in ENGR 190W.

If your enrollment window is closed, you may access WebReg between the hours of 7:00 PM - 7:00 AM.

http://plaza.eng.uci.edu/
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 the next fall
  - Gary Guymon Scholarship: for **sophomores** returning the next fall
  - Robin Shepherd Scholarship: for **juniors** returning the next 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.

• Academic Integrity & Student Conduct:  http://aisc.uci.edu/
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/)
Study Abroad Program

Study Abroad Center
University of California - Irvine

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STUDENT SPOTLIGHT

Linny Tran, Japan More >>

CALENDAR

Info Sessions and Events

UCEAP DEADLINES

Request a study abroad presentation for your UCI club or organization.

Study Abroad Center
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http://www.cie.uci.edu/
Student Clubs

UCI Student Chapter of the Institute of Transportation Engineers

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

Welcome to Chi Epsilon at UCI

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

American Academy of Environmental Engineers

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: ase.e.uci@gmail.com
Facebook: American Academy of Environmental Engineers at UCI
Summary

1. Academic Honesty...
2. Faculty Advising versus HSSOE Counselors
3. ABET and 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://catalogue.uci.edu/thehenrysamuelischoolofengineering/departmentofcivilandenvironmentalengineering/