

**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?

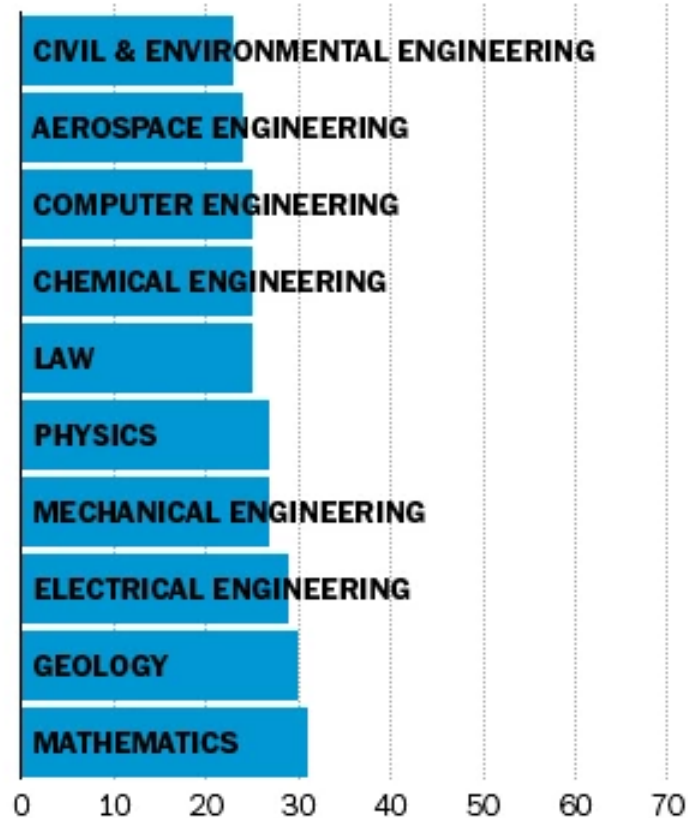
The college majors most and least likely to lead to underemployment

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

## Most underemployed majors



## Least underemployed majors



# 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](mailto:mmcnally@uci.edu) or [bidui@uci.edu](mailto: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/~mmcally/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/~mmcally/FAQ-advising.html>



# Advising FAQs

<http://www.its.uci.edu/~mmcally/FAQ-Fresh-advising.html>



## Civil & Environmental Engineering

### FAQs: CEE Freshmen Advising Process [2018-2019]

Why What When How Where Who Other Problems Contacts

#### • 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 Samueli 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](mailto:sjiang@uci.edu)



Dr. McNally, CE UG Advisor  
AIRB 4048  
Transportation  
CEE 123  
[mmcnally@uci.edu](mailto:mmcnally@uci.edu)



Dr. Rosso, EnE UG Advisor  
ET 844F  
Environmental  
CEE 163, CEE 165  
[bidui@uci.edu](mailto:bidui@uci.edu)

# Advisers: Freshmen 2018-19 (Class of 2022)



Dr. Aghakouchak  
ET 506A  
**Water/Environmental**  
CEE81B, CEE173  
[amir.a@uci.edu](mailto:amir.a@uci.edu)



Dr. Recker  
AIRB 4074  
**Transportation**  
CEE 111  
[wwrecker@uci.edu](mailto:wwrecker@uci.edu)



Dr. Ritchie  
AIRB 4014  
**Transportation**  
CEE121, CEE124  
[sritchie@uci.edu](mailto:sritchie@uci.edu)



Dr. Sun  
EG 4139  
**Structures**  
CEE 30, CEE 152  
[lsun@uci.edu](mailto:lsun@uci.edu)



Dr. Li  
EG 4145  
**Structures**  
CEE30  
[Mo.li@uci.edu](mailto:Mo.li@uci.edu)

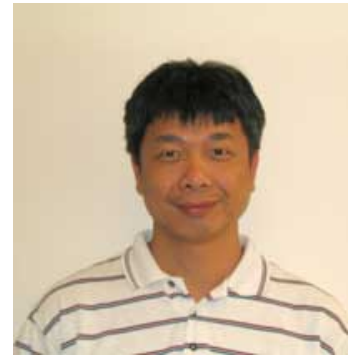


Dr. Sanders  
ET 844D  
**Water/Environment**  
CEE 170  
[bsanders@uci.edu](mailto:bsanders@uci.edu)

# Advisers: Sophomores 2018-19 (Class of 2021)



Dr. Jayakrishnan  
AIRB 4055  
**Transportation**  
CEE 81A  
[rjayakri@uci.edu](mailto:rjayakri@uci.edu)



Dr. Hsu  
EH 5320  
**Water Resources**  
CEE176  
[kuolinh@uci.edu](mailto:kuolinh@uci.edu)



Dr. Lemnitzer  
EG 4149  
**Geotech / Structures**  
CEE130, CEE156  
[lemnitzer@uci.edu](mailto:lemnitzer@uci.edu)



Dr. Qomi  
EG 4151  
**Structures**  
CEE 151a  
[mjaq@uci.edu](mailto:mjaq@uci.edu)



Dr. Vrugt  
ET 844E  
**Water / Systems**  
CEE 20  
[jasper@uci.edu](mailto:jasper@uci.edu)

# Advisers: Juniors 2018-19 (Class of 2020)



Dr. Davis  
ET 544E  
**Water / Environmental**  
CEE 21, CEE 178  
[davis@uci.edu](mailto:davis@uci.edu)



Dr. Jin  
AIRB 4038  
**Transportation**  
CEE 122  
[wjin@uci.edu](mailto:wjin@uci.edu)



Dr. Mosallam  
EG 4167  
Structures  
CEE 151C  
[mossalam@uci.edu](mailto:mossalam@uci.edu)



Dr. Sorooshian  
EH 5308  
Hydrologic Systems  
CEE 176  
[soroosh@uci.edu](mailto:soroosh@uci.edu)



Dr. Lanning  
EG 4167  
Structures  
CEE 155, CEE 181  
[Joel.Lanning@uci.edu](mailto:Joel.Lanning@uci.edu)

# Advisers: Seniors 2017-18 (Class of 2019)



Dr. Zareian  
EG 4141  
Structures  
CEE150  
[zareian@uci.edu](mailto:zareian@uci.edu)



Dr. Detwiler  
ET 716E  
Water/Environ  
CEE171, CEE172  
[detwiler@uci.edu](mailto:detwiler@uci.edu)



Dr. Saphores  
AIRB 4028  
Transportation  
CEE111  
[saphores@uci.edu](mailto:saphores@uci.edu)



Dr. Lanning  
EG  
Structures  
CEE 155, CEE 181  
[bsanders@uci.edu](mailto:bsanders@uci.edu)



Dr. Hyland  
AIRB 4022  
**Transportation**  
CEE110  
[hylandm@uci.edu](mailto:hylandm@uci.edu)



Dr. Adeyele  
ET 516F  
Transportation  
[Adeyemi.adeyele@uci.edu](mailto: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)



# 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 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.

## Sample Course Syllabus & Outcomes

### 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)

**Required Textbook:** Gerald W. Recktenwald, *Numerical Methods with MATLAB : Implementations and Applications*. 2nd Edition, Pearson, 2000, ISBN-13 978-0201308600.

**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. (EAC 1)
2. Use Matlab to write computer programs, structures and functions (subroutines). (EAC1, EAC 2)
3. Use Matlab to plot data and mathematical functions. (EAC1, EAC 3)
4. Use Matlab to find roots of nonlinear equations. (EAC 1)
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. (EAC 3)

Course  
Outcomes

Student  
Learning  
Outcomes

<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



# CE Course Requirements 2

## *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

Fall		Winter		Spring	
Math 2A	4	Math 2B	4	Math 2D	4
Gen. Ed.	4	Phys 7C, L	5	Phys 7D, L	5
Chem 1A	4	Chem 1B	4	<b>Sci. Elect.</b>	4
Gen. Ed. Engr 7A *	2-4	Chem 1LE Or Engr 7B	2-3	CEE 81A	3
	14-16		15-16		16

- Science Elective: BioSci or ESS (NOT chemistry or physics)
- \* Engr7A-B Option (Lower Division only)

# BSCE: Sophomore 2019-2020

Fall		Winter		Spring	
Math 3A	4	Math 3D	4	Math 2E	4
CEE 30	4	CEE 11	4	LD Elect	4
CEE 20	4	CEE81B	3	CEE 21	4
Gen. Ed.	4	Gen. Ed.	4	Gen. Ed.	4
	16		15		16

- Gen Ed Recommendation: Econ 20A-B, **CEE60**
- **LD Engr Elective**: EECS70A, ENGR54, **MAE80**, MAE91



# BSCE: Junior 2020-2021

Fall		Winter		Spring	
CEE 150, L	5	CEE 151A	4	CEE 151C	4
CEE 170	4	CEE 171	4	CEE 160	4
CEE 121	4	CEE 130, L	5	CEE 110	4
		E190W	4	Gen. Ed.	4
	13		17		16

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

# BSCE: Senior 2021-2022

Fall		Winter		Spring	
CEE 181A	2	CEE 181B	2	CEE 181C	2
Spec. Elec	4	CEE 111	4	Spec. Elec.	4
Gen. Ed.	4	Spec. Elec.	4	<b>Spec. Elec.</b>	4
Gen. Ed.	4	Gen. Ed.	4	Gen. Ed.	4
	14		14		14

• **Specialization Elective:** flexibility with 4<sup>th</sup> 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.

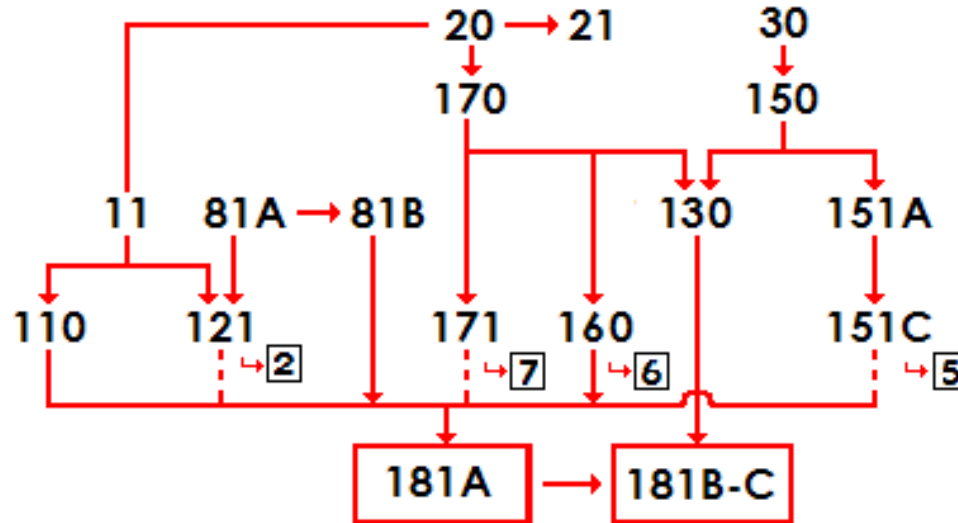
## Transportation Systems Engineering:

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

**Note: 4<sup>th</sup> course may be any UD HSSOE technical elective**

# Pre-requisites are Important !

BSCE Prerequisite Chains for CEE181ABC [2016-2017]



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

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

## **BS EnE Degree Program**

### **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

Fall		Winter		Spring	
Math 2A	4	Math 2B	4	Math 2D	4
Gen. Ed.	4	Phys 7C, L	5	Phys 7D, L	5
Chem 1A	4	Chem 1B	4	Chem 1C, LC	6
Gen. Ed. *	4	Gen. Ed.	4	CEE 81A	3
	16		17		18

- Gen Ed Recommendation: WR39B-C or CEE60
- Engr 7A-B Option (lower division only)

# BS EnE: Sophomore 2019-2020

Fall		Winter		Spring	
Math 3A	4	Math 3D	4	Math 2E	4
CEE 20	4	CEE 81B	3	CEE 21	4
CEE 30	4	CEE 11	4	Engr Sci	4
Chem 51A, Chem 1LD	4 1	Gen. Ed.	4	MAE 21	4
	17		15		16

- Gen Ed Recommendation: CEE60
- **Engr Science** Elective: EECS70A, ENGR54, **MAE80**, etc.

# BS EnE: Junior 2020-2021

Fall		Winter		Spring	
CEE 150, L	5	CEE 130, L	5	CEE 110	4
CEE 170	4	CEE 162	4	CEE 160	4
Sci. Elect. 1	4	Eng. Elect.	4	Sci. Elect. 2	4
<b>E190W</b>	4	Gen. Ed.	4	Gen. Ed.	4
	17		17		16

- Consider pre-requisites!
- Science Electives: 1 each in Bio Sci and Earth Systems Sci

# BS EnE: Senior 2021-2022

Fall		Winter		Spring	
CEE 181A	2	CEE 181B	2	CEE 181C	2
Eng. Elect.	4	Eng. Elect.	4	Eng. Elect.	4
Gen. Ed.	4	Eng. Elect.	4	Gen. Ed.	4
Gen. Ed.	4	Gen. Ed.	4		
	14		14		10

- 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

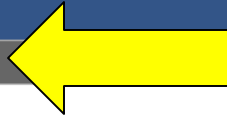
## 3. Need to consult with HSSoE counselors

# HSSOE UG Office



THE HENRY SAMUEL SCHOOL OF ENGINEERING  
UNIVERSITY of CALIFORNIA • IRVINE

Please Log In Teaching Plans Courses Undergraduate Programs



## COURSE LEARNING OUTCOME SURVEYS

You have no course surveys to complete.

## COURSE SCHEDULE

[Current Major Restrictions](#)

### 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/>



Engineering Plaza





<http://plaza.eng.uci.edu>

CEE@UCI











# CEE Home Page



 **UCI Samueli**  
School of Engineering


**University of California, Irvine**

Search 


      


Current Students **Departments** Directory Faculty & Staff Alumni & Friends


ABOUT ADMISSIONS RESEARCH INDUSTRY OUTREACH NEWS & EVENTS


Weather in Irvine  | 135°F


## Department of Civil and Environmental Engineering





**MESSAGE FROM CHAIR** 


**MISSION** 


**FACTS & FIGURES** 


**UNDERGRADUATE** 


**GRADUATE** 


**CAREER OPPORTUNITIES** 


**RESEARCH** 


**FACULTY** 


**ACADEMIC EMPLOYMENT** 


**CEE AFFILIATES** 


**ALUMNI** 


**SEMINAR SERIES** 

**DEPT EVENTS** 

**DEPT NEWS** 

**E-NEWSLETTER** 

**GIVE TO CEE** 





**CONTACT US** 

**CONTACT INFO**


**Address:**  
Department of Civil and Environmental Engineering  
E4130 Engineering Gateway Building  
Irvine, CA 92697-2175

**Phone:**  
(949) 824-5333

**Email:**  
cee@uci.edu


**MESSAGE FROM CHAIR**




Welcome to the UC Irvine Department of Civil and Environmental Engineering in the Samueli School. Our mission is to provide students with a broad, fundamental and flexible educational approach and to expand engineering knowledge through an active and exciting undergraduate and graduate research program.

Starting in the late 1960s as programs in civil and environmental engineering, the department has a long history of offering a rich and diverse educational experience to students. Courses are taught by world-class scholars who maintain connections with industry and are involved in developing innovative technologies

**RESEARCH THRUSTS**

**Structures** 

**Transportation** 


**DEPARTMENT NEWS**

September 5, 2018  
**Advanced Power and Energy Program Receives CEC Grant for California Renewable Hydrogen Deployment Road Map**

August 29, 2018  
**Horiba Group Commits \$9 Million to UCI for New Institute**

August 15, 2018  
**CEE Grad Student Selected as a Voice for Science**

August 3, 2018  
**UCI Engineers Host Workshops in East Africa on UCI-developed Precipitation Technology**

[View more News](#) 

# Department Scholarships

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>

# 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/>

# Professional Registration

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.)
  - c. <http://www.ncees.org/exams/fundamentals/>
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/>

# Study Abroad Program



**STUDY ABROAD CENTER**  
UNIVERSITY of CALIFORNIA • IRVINE

SEARCH

Home : Prospective Participants : Participants : Returnees : Reciprocity Students : Faculty & Staff : Contacts : The World at UCI



**Student Spotlight**  
Linny Tran, Japan [More >>](#)



**Alumni Spotlight**  
Arya Kumar, Ghana [More >>](#)

**START HERE!**

Want to go abroad?  
★ [START HERE](#) ★

[About Us](#)

[Support Us](#)

**NEWS**

**Study Abroad Returnees:**  
Apply to be a [Peer Advisor](#) for 2018-19  
or  
become a [Generation Study Abroad Ambassador!](#)

**CALENDAR**

[Info Sessions and Events](#)

[UCEAP DEADLINES](#)

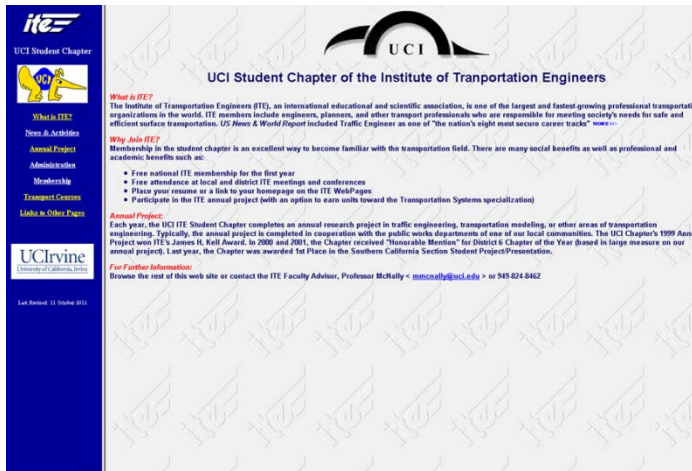
Request a [study abroad presentation](#)  
for your UCI club or organization.

Study Abroad Center  
University of California, Irvine • Irvine, CA 92697  
© 2011 The Regents of the University of California.  
All Rights Reserved.

[Comments & Questions](#) : [Privacy & Legal Notice](#) : [Copyright Inquiries](#)



# Student Clubs



**UCI Student Chapter of the Institute of Transportation Engineers**

**What is ITE?**  
The Institute of Transportation Engineers (ITE), an international educational and scientific association, is one of the largest and fastest-growing professional transportation organizations in the world. ITE members include engineers, planners, and other transport professionals who are responsible for meeting society's needs for safe and efficient surface transportation. US News & World Report included Traffic Engineer as one of "the nation's eight most secure career tracks" over...

**Why Join ITE?**  
Membership in the student chapter is an excellent way to become familiar with the transportation field. There are many social benefits as well as professional and academic benefits such as:

- Free national ITE membership for the first year
- Free attendance at local and district ITE meetings and conferences
- Place your resume on a link to your homepage on the ITE WebPages
- Participate in the ITE annual project (with an option to earn units toward the Transportation Systems specialization)

**Annual Project:**  
Each year, the UCI ITE Student Chapter completes an annual research project in traffic engineering, transportation modeling, or other areas of transportation engineering. Typically, the annual project is completed in cooperation with the public works departments of one of our local communities. The UCI Chapter's 1999 Annual Project won ITE's James H. Kell Award. In 2000 and 2001, the Chapter received "Honorable Mention" for District 8 Chapter of the Year (based in large measure on our annual project). Last year, the Chapter was awarded 1st Place in the Southern California Section Student Project Presentation.

**For Further Information:**  
Browse the rest of this web site or contact the ITE Faculty Advisor, Professor McNally < [mcmally@uci.edu](mailto:mcmally@uci.edu) > or 949 824 8462

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



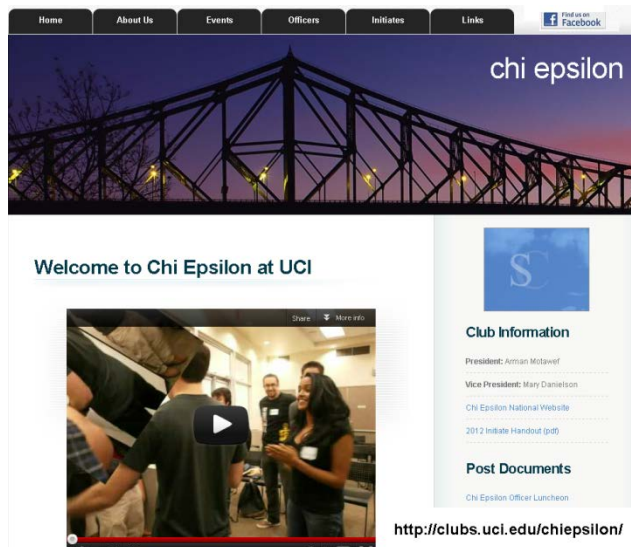
Professional engineering chapter at UCI for engineers interested in the environment:


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

Meetings: Wednesdays of Even Weeks, 5:00-7:00, ICF 103

Email: [aaee.uci@gmail.com](mailto:aaee.uci@gmail.com)

Facebook: [American Academy of Environmental Engineers at UCI](#)



Home About Us Events Officers Initiates Links 

**chi epsilon**

Welcome to Chi Epsilon at UCI

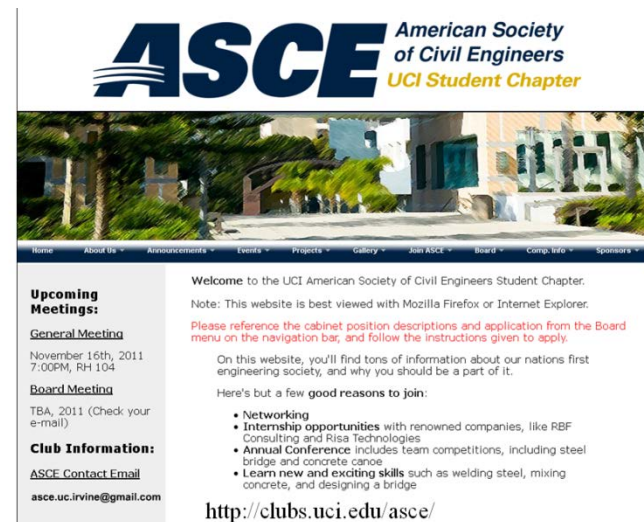
**Club Information**

President: Arman Motawaf  
Vice President: Mary Danielson  
Chi Epsilon National Website  
2012 Initiate Handout (pdf)

**Post Documents**

Chi Epsilon Officer Luncheon

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



**ASCE** American Society of Civil Engineers  
UCI Student Chapter

Welcome to the UCI American Society of Civil Engineers Student Chapter.  
Note: This website is best viewed with Mozilla Firefox or Internet Explorer.  
Please reference the cabinet position descriptions and application from the Board menu on the navigation bar, and follow the instructions given to apply.

On this website, you'll find tons of information about our nation's first engineering society, and why you should be a part of it.

Here's but a few good reasons to join:

- **Networking**
- **Internship opportunities** with renowned companies, like RBF Consulting and Risa Technologies
- **Annual Conference** includes team competitions, including steel bridge and concrete canoe
- **Learn new and exciting skills** such as welding steel, mixing concrete, and designing a bridge

**Upcoming Meetings:**  
**General Meeting**  
November 15th, 2011  
7:00PM, RH 104  
**Board Meeting**  
TBA, 2011 (Check your e-mail)

**Club Information:**  
**ASCE Contact Email**  
[asce.uc.irvine@gmail.com](mailto:asce.uc.irvine@gmail.com)

<http://clubs.uci.edu/asce/>

# 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)
2. Web site: <http://plaza.eng.uci.edu/>

## 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](mailto:mmcnally@uci.edu)
4. EnE Advisor: Professor Rosso [bidui@uci.edu](mailto:bidui@uci.edu)

## UCI General Catalogue: Your *contract* with UC

[http://catalogue.uci.edu/thehenrysamuelischoolofengineering/  
departmentofcivilandenvironmentalengineering/](http://catalogue.uci.edu/thehenrysamuelischoolofengineering/departmentofcivilandenvironmentalengineering/)