

**Freshmen Advising
Civil & Environmental Engineering
Fall 2017 for 2017-2018 AY
Professor M. G. McNally
Professor Diego Rosso**



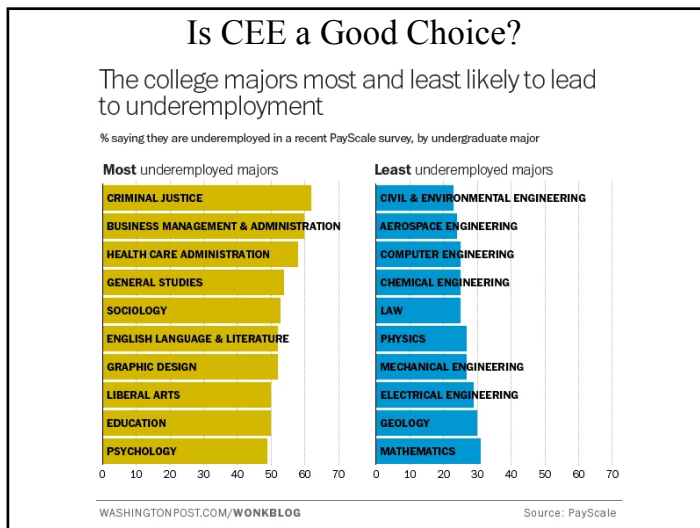

Department of Civil and Environmental Engineering

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*** 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?**

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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!

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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 group 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 session format (sign-up on-line)
- 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!)

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

Advising FAQs

http://www.its.uci.edu/~mmcnally/FAQ-Fresh-advising.html

File Edit View Favorites Tools Help

Civil & Environmental Engineering

FAQs: CEE Freshmen Advising Process [2016-2017]

Why What When How Where Who Other Problems Contacts

- E-mail Notices on the Faculty Advising Process

Your official UCI email will serve as the only communication path from the Department of Civil and Environmental Engineering regarding the mandatory Faculty Advising Process. You are solely responsible for regularly checking your UCI email and responding as appropriate. No other email options will be 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 change often thus regular meetings with students are the best way to provide the 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. Faculty advising 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 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 and environmental). Your faculty advisors will continue to advise you as long as you are in our UG programs.

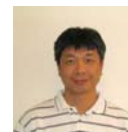
Advisers: Freshmen 2017-18 (Class of 2021)



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



Dr. Lemnitzer
EG 4149
Geotechnical
CEE130, CEE156
lemnitzer@uci.edu



Dr. Hsu
EH 5320
Hydrologic Modeling
CEE30
kuolinh@uci.edu





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



Dr. Vrugt
ET 844E
Systems Modeling
CEE 20
jasper@uci.edu

Structural Engineering Faculty

			
Dr. Sun EG 4139 Mechanics, Composites CEE 30, CEE 152	Dr. Zareian EG 4141 Earthquake Engr CEE150	Dr. Mosallam EG 4149 Structures CEE151C, ASCE	Dr. Lemnitzer EG 4149 Geotechnical CEE130, CEE156
			
Dr. Qomi EG 4151 Structures, Materials CEE 151A	Dr. Li EG 4145 Structures CEE30	Dr. Lanning EG 4167 Structures CEE155, 181	

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Environmental & 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

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Environmental & Water Resource Faculty

		
Dr. Davis, ET 544E Coastal Engineering CEE 178	Dr. Fougoula-Georgiou EH 5428 Environmental Chemistry	Dr. Jiang, ET 716E Water Quality CEE 160, CEE 169
		
Dr. Grant, ET 944D Environmental Engr CEE11	Dr. Rosso, ET 844F Environmental Processes CEE163, CEE165 EnE UG Advisor	Dr. Olson, ET 844 Environmental Microbiology CEE 60

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Transportation Systems Engineering

		
Dr. Jay, AIRB 4055 Transport Systems Anlys CEE 81a	Dr. Jin, AIRB 4038 Traffic Flow, ITS CEE 110	Dr. McNally, AIRB 4048 Travel Behavior & Modeling CEE123, CEE181abc
		
Dr. Recker, AIRB 4074 Transport Systems Anlys CEE 111, Engr189	Dr. Ritchie, AIRB 4014 ITS, Emerging Technology CEE121, CEE124	Dr. Saphores, AIRB 4028 Transport Planning & Policy CEE 111, CEE122

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Freshmen Issues

- **What's New?**
- Grades and pre-requisites
- Plan of Study (see counselors in UG Office)
- Choices:
 - Degree programs, Specializations, Minors
 - Student Clubs & Professional Associations, E-Week
- Assessment (ABET) & Registration (FE, PE)

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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

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Careers in Civil & Environmental Engineering
BSCCE Degree Program

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

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Careers in Civil & Environmental Engineering
BSCCE Degree Program

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

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Careers in Civil & Environmental Engineering
BSCe Degree Program

CE and EnE Student Learning Outcomes (continued)

- An understanding of professional and ethical responsibility
- An ability to communicate effectively
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- A recognition of the need for, and an ability to engage in life-long learning
- A knowledge of contemporary issues
- An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

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Careers in Civil & Environmental Engineering
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. Reckhowald, Numerical Methods with MATLAB : Implementations and Applications, 2nd Edition, Pearson, 2000, ISBN 13 978-0201308600.

Prerequisite: 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:

- Use Matlab to perform a range of matrix and vector operations. (EAC a)
- Use Matlab to write computer programs, structures and functions (subroutines). (EAC a, EAC c)
- Use Matlab to plot data and mathematical functions. (EAC a, EAC g)
- Use Matlab to find roots of nonlinear equations. (EAC a, EAC e)
- Use Matlab to perform least-squares fitting of a curve to data. (EAC a, EAC b)
- Use Matlab skills in the context of a design process which leads to a modeling tool useful for engineering analysis purposes. (EAC c)
- 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)

Course Outcomes

Student Learning Outcomes

<http://plaza.eng.uci.edu/course/outline/engrcee/>

2017

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)
- Elective** (two from Chem1LE, ENGR7A-B, LDEE)
[LDEE is one of (EECS70A, Engr54, MAE80, MAE91)]

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

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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)
- Engr Design Elective (one of 155, 172, 122 or 123)
(No double counting!)
- Senior Design Practicum: CEE 181A-B-C

Specialization (16 units)

- Must complete senior design project in same area

Summary: A nominal total of **188** units (22+ design units)

2017

BSCE: Freshman 2017-2018

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	Sci. Elect.	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)

2017

BSCE: Sophomore 2018-2019

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

2017

BSCE: Junior 2019-2020

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	Gen. Ed.	4
	17		17		16

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

2017

BSCE: Senior 2020-2021

Fall		Winter		Spring	
CEE 181A	2	CEE 181B	2	CEE 181C	2
Engr Dsgn	4	CEE 111	4	Spec. Elec.	4
Spec. Elec.	4	Spec. Elec.	4	Spec. Elec.	4
Gen. Ed.	4	Gen. Ed.	4	Gen. Ed.	4
	14		14		14

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

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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.

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Specializations 2

Structural Engineering:

Requires four (three) courses from CEE149, CEE151B, CEE152, CEE156, MAE157, or courses from an approved list [requires CEE155 as the Engr Design Elective]

Transportation Systems Engineering:

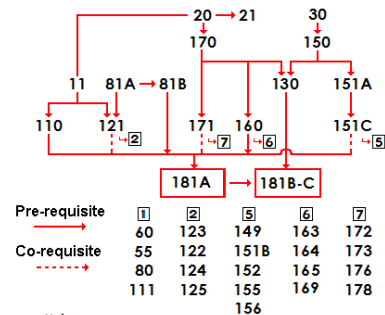
Requires CEE122 and CEE123, and two (one) courses from CEE124, CEE125, E189, EECS70A, or courses from an approved list.

Note: the 4th course is any UD HSSOE technical elective

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Key Pre-requisites

BSCE Prerequisite Chains for CEE181ABC [2016-2017]



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Careers in Civil & Environmental Engineering 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.

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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

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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*

2017

BS EnE: Freshman 2017-2018

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 (freshmen only)**

2017

BS EnE: Sophomore 2018-2019

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.

2017

BS EnE: Junior 2019-2020

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
E190W	4	Gen. Ed.	4	Gen. Ed.	4
	17		17		16

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

2017

BS EnE: Senior 2020-2021

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

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General Education Requirements

- 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**

2017

HSSOE UG Office

The screenshot shows the website for The Henry Samueli School of Engineering at UC Irvine. It features a navigation bar with links for Home, Log In, Teaching Plans, Courses, and Undergraduate Programs. The main content area is titled 'COURSE LEARNING OUTCOME SURVEYS' and contains three sections: 'Fall 2011 Course Learning Outcome Surveys Now Open', 'Winter 2011 Course Learning Outcome Surveys Now Available', and 'Fall 2010 Course Learning Outcome Surveys Now Available'. Each section provides details about the surveys and their availability. At the bottom, there is a URL: <http://plaza.eng.uci.edu> and the text 'CEE@UCI'.

2017

CEE UG Programs



<http://www.eng.uci.edu/dept/cee/>

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>

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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>

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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/>

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Education Abroad Program

UCIrvine CENTER FOR INTERNATIONAL EDUCATION


EAP Planning for Civil Engineering

Academic Planning
Planning Strategies
How to get credit
Researching EAP Courses
EAP Program Wizard
Financing EAP
Engineering
Major Requirements

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, this international experience will open a world of engineering opportunities in your future."

Professor Michael McNally
Department of Civil & Environmental Engineering
<http://www.studyabroad.uci.edu/>



Student Clubs

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, EY 103
Email: aee@uci.edu
Facebook: [American Academy of Environmental Engineers at UCI](https://www.facebook.com/AmericanAcademyofEnvironmentalEngineersatUCI)

ASCE American Society of Civil Engineers

Planning Meetings
Annual Meeting
Networking
Career Development
Webinars
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Welcome to Chi Epsilon at UCI

Click Information
Join Us Today!

<http://chi.uci.edu/cee>

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)

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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
4. EnE Advisor: Professor Rosso bidui@uci.edu

UCI General Catalogue: Your contract with UC

<http://catalogue.uci.edu/thehenrysamuelischoolofengineering/departmentofcivilandenvironmentalengineering/>

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