

*Welcome to Civil  
Engineering and  
Environmental Engineering  
Aggie Orientation!*

Civil and Environmental Engineering | UC Davis

# Introductions

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Civil and Environmental Engineering Peer Advisor





# Today's AGENDA



- Civil and Environmental Engineering
  - Our Department
- Academic Advising in Engineering
  - Mandatory advising
  - Role of advisor vs role of the student
- Overview of the majors
- Opportunities



# Department of Civil and Environmental Engineering



40+ Faculty Member

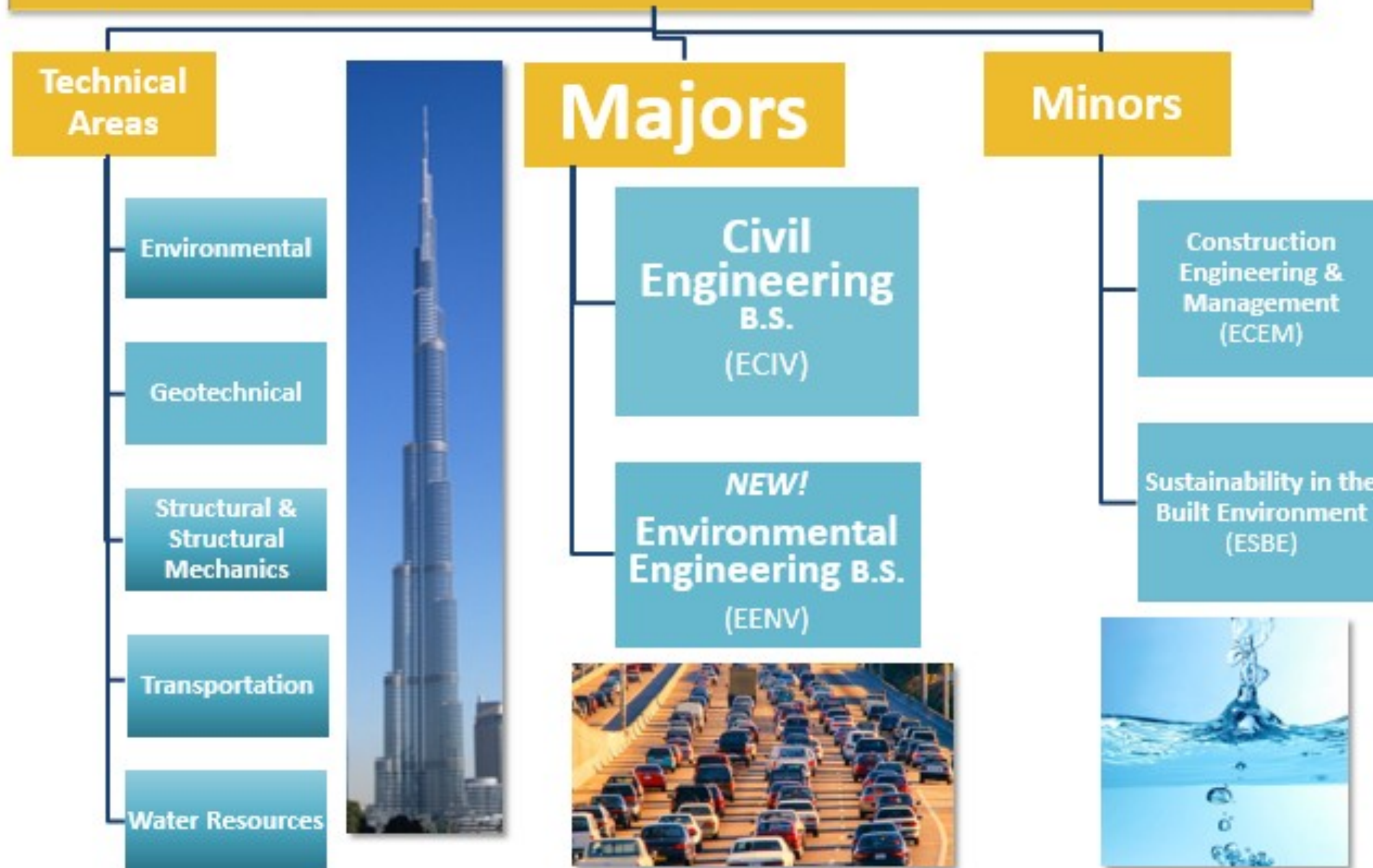
Over 500  
Undergraduates

Over 250 Graduate  
Students

1 ABET Accredited Major

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# Department of Civil & Environmental Engineering (CEE)



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# ANNUAL ADVISING

## REQUIRED:

Schedule based on your time at UC Davis

1<sup>st</sup> year and transfer: Fall Quarter Hold (release by November 30)

4<sup>th</sup> (and up) year and 2<sup>nd</sup> year: Winter Quarter Hold (release by February 28)

3<sup>rd</sup> year: Spring Quarter Hold (release by May 31)

Failure to release your hold by the deadline will result in the inability to make any changes to your schedule!

# RELEASING YOUR ADVISING HOLD

## 3 Steps:

1. **Create a 3 Quarter Academic Plan**
2. **Make an appointment using the appointment system to meet with an Advisor**
3. **Ask Questions!!**

# Appointment System

Advising Appointment System

Good Afternoon, Rachel  
Friday, June 1, 2018

UC DAVIS

Welcome to the Advising Appointment System



Who would you like an appointment with?

My Offices

Asian American Studies - ASA

Letters & Science Dean's Office

Statistics

Offices by College/Major/Minor

Choose an office...

All Offices

Choose an office...

Link:

[appointments.ucdavis.edu](https://appointments.ucdavis.edu)

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# Student and Advisor Responsibilities

## Advisors:

- Listen carefully and create inclusive and confidential environment
- Help connect students to campus resources/services
- Help create academic plans, understand degree requirements/curriculum, campus policies, and petition processes
- Help develop and adopt successful behaviors, habits and attitudes
- Help explore and set goals (and stay motivated, too!)

## Students:

- Take ownership of education
- Regularly utilize online academic tools
- Prepare for advising meetings ahead of time by creating academic plan and answering any preparatory questions
- Ask for help when you need it, show initiative and make use of campus resources
- Explore, reflect on, and identify current educational, career and life goals

# Civil Engineering

The design, construction, and maintenance of the physical and naturally built environment.

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# Environmental Engineering

Solving modern and evolving problems of clean air and water at global, regional and local levels.



# Structure of Environmental Engineering Major (EENV)

Lower Division : 70-71 units

Upper Division: 60-64 units

General Education: 17-21 units

First Year (0-44.9 units)				<u>Example Schedule</u>		Sophomore (45-89.9 units)							
<i>Fall</i>		<i>Winter</i>		<i>Spring</i>				<i>Fall</i>		<i>Winter</i>		<i>Spring</i>	
MAT 21A	4	MAT 21B	4	MAT 21C	4			MAT 21D	4	MAT 22A (22A Lab)3(1)		MAT 22B	3
CHE 2A	5	CHE 2B	5	PHY 9A	5			PHY 9B	5	GEL 50/50L or ATM 604-5		ENG 35	4
ECI 3	<u>4</u>	ENL Comp	4	CHE 8A	2			ECI 40	4	GE Elective	4	URE Elective	2
	13	GE Elective	<u>4</u>	GE Elective	<u>4</u>			ECS 32A or ENG 6	<u>4</u>	ECI 16	<u>2</u>	GE Elective	<u>5</u>
			17		15				17		14-15		14

# Structure of ECIV & EENV Double Major

Lower Division : 80 units

Upper Division: 80-85 units

General Education: 6-17 units

First Year (0-44.9 units)				<u>Example Schedule</u>		Sophomore (45-89.9 units)			
<i>Fall</i>		<i>Winter</i>		<i>Spring</i>		<i>Fall</i>		<i>Winter</i>	
MAT 21A	4	MAT 21B	4	MAT 21C	4	MAT 21D	4	MAT 22A (22A Lab)3(1)	3
CHE 2A	5	CHE 2B	5	PHY 9A	5	PHY 9B	5	GEL 50/50L	5
ECI 3	<u>4</u>	ENL Comp	4	CHE 8A	2	ECI 40	4	PHY 9C	5
	13	GE Elective	<u>4</u>	GE Elective	<u>4</u>	ENG 6 or ECS 32A	<u>4</u>	ECI 16	<u>2</u>
			17		15		17		15-16



# General Education Requirements\*

- **Topical Breadth:** Arts & Humanities and Social Science ONLY
- **Cores Literacies:** Civic & Cultural Literacy ONLY (*OLWE & VL in EENV Major*)
- *Cannot* be satisfied with AP or IB credit
- Up to 16 units of General Education Coursework outside of CoE can be taken P/NP (*some exceptions apply*). **Cannot take P/NP GE courses 1<sup>st</sup> quarter (subject to change)**

**\*As it relates to Civil Engineering and Environmental Engineering students ONLY**

**General Education Requirement as of Fall 2020\***  
**Civil Engineering**

Topical Breadth			
<b>A. Arts &amp; Humanities (AH):</b>	<b>B. Science &amp; Engineering (SE):</b>	<b>C. Social Sciences (SS):</b>	
_____	Satisfied with _____	ENG 106 _____ 4	
_____	Engineering _____	CMN 1** 3 or ENG 3 _____ 4	
_____	Requirements _____	ECI 3 _____ 4 Req. for 1st & 2nd yrs.	
_____	_____	_____	
_____	_____	_____	
_____	_____	_____	
12-20 units _____	12-20 units <b>20</b> _____	12-20 units _____	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	
(AH) _____ units + (SE) _____ units + (SS) _____ units = _____ (52) units <input type="checkbox"/> Satisfied			
Core Literacies			
<b>I. Literacy with Words &amp; Images (20 units)</b>	<b>II. Civic &amp; Cultural Literacy (9 units)</b>	<b>III. Quantitative Literacy (QL) (3 units)</b>	<b>IV. Scientific Literacy (SL) (3 units)</b>
a. College English Composition Requirement: college req _____ college req or exam _____	a. American Cultures, Governance & History (ACGH): _____	ECI 114 _____ 4	ENG 106 _____ 4
8 units, or the equivalent _____	_____	3 units _____	3 units _____
<input type="checkbox"/> Satisfied	3 units _____	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied
b. Writing Experience (WE): ECI 193A _____ 4 CMN 1 or 3 _____ 4	b. Domestic Diversity (DD): _____	<b>Summary</b>	
6 units _____	_____	Topical Breadth: A. Arts & Humanities <input type="checkbox"/> Satisfied B. Science & Engineering <input type="checkbox"/> Satisfied C. Social Sciences <input type="checkbox"/> Satisfied	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	Core Literacies: I. Literacy with Words & Images <input type="checkbox"/> Satisfied II. Civic & Cultural Literacy <input type="checkbox"/> Satisfied III. Quantitative Literacy <input type="checkbox"/> Satisfied IV. Scientific Literacy <input type="checkbox"/> Satisfied	
c. Oral Skills (OL) or Additional Writing Experience (WE): ECI 193B _____ 4	_____	Remaining GE Requirements: ECI 123 can be used for either SS & ACGH or SS & DD. ECI 137 can be used for SS & ACGH. ECI 155, 163 & 165 can be used for SS.	
3 units _____	3 units _____	_____	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	_____	
d. Visual Literacy (VL): ENG 102 or 105 _____ 4	c. World Cultures (WC): _____	_____	
3 units _____	3 units _____	_____	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	_____	

\*With the exception of the courses satisfying the College English Composition Requirement, the same course may be counted toward both the Core Literacies and Topical Breadth components. Overlap is not permitted within either the Core Literacies or Topical Breadth components. College of Engineering students may elect up to 16 units P/NP for GE courses. AP coursework may not be applied to GE requirements.

4/3/19

**General Education Requirement as of Fall 2020 \***  
**Environmental Engineering**

Topical Breadth			
<b>A. Arts &amp; Humanities (AH):</b>	<b>B. Science &amp; Engineering (SE):</b>	<b>C. Social Sciences (SS):</b>	
ECI 40 _____ 4	Satisfied with _____	ENG 106 _____ 4	
_____	Engineering _____	ECI 123** _____ 4	
_____	Requirements _____	ECI 3 _____ 4 Req. for 1st & 2nd yrs.	
_____	_____	_____	
_____	_____	_____	
_____	_____	_____	
12-20 units _____	12-20 units <b>20</b> _____	12-20 units _____	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	
(AH) _____ units + (SE) _____ units + (SS) _____ units = _____ (52) units <input type="checkbox"/> Satisfied			
Core Literacies			
<b>I. Literacy with Words &amp; Images (20 units)</b>	<b>II. Civic &amp; Cultural Literacy (9 units)</b>	<b>III. Quantitative Literacy (QL) (3 units)</b>	<b>IV. Scientific Literacy (SL) (3 units)</b>
a. College English Composition Requirement: college req _____ college req or exam _____	a. American Cultures, Governance & History (ACGH): _____	ECI 114 _____ 4	ENG 106 _____ 4
8 units, or the equivalent _____	ECI 123** _____ 4	3 units _____	3 units _____
<input type="checkbox"/> Satisfied	3 units _____	<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied
b. Writing Experience (WE): ECI 193A _____ 4	b. Domestic Diversity (DD): _____	<b>Summary</b>	
6 units _____	_____	Topical Breadth: A. Arts & Humanities <input type="checkbox"/> Satisfied B. Science & Engineering <input type="checkbox"/> Satisfied C. Social Sciences <input type="checkbox"/> Satisfied	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	Core Literacies: I. Literacy with Words & Images <input type="checkbox"/> Satisfied II. Civic & Cultural Literacy <input type="checkbox"/> Satisfied III. Quantitative Literacy <input type="checkbox"/> Satisfied IV. Scientific Literacy <input type="checkbox"/> Satisfied	
c. Oral Skills (OL) or Additional Writing Experience (WE): ECI 193B _____ 4	_____	Remaining GE Requirements: _____	
3 units _____	3 units _____	_____	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	_____	
d. Visual Literacy (VL): _____	c. World Cultures (WC): _____	_____	
3 units _____	3 units _____	_____	
<input type="checkbox"/> Satisfied	<input type="checkbox"/> Satisfied	_____	

\*With the exception of the courses satisfying the College English Composition Requirement, the same course may be counted toward both the Core Literacies and Topical Breadth components. Overlap is not permitted within either the Core Literacies or Topical Breadth components. College of Engineering students may elect up to 16 units P/NP for GE courses. AP coursework may not be applied to GE requirements.

The Environmental Engineering degree is NGT (1987) accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>. We recommend that students interested in Environmental Engineering pursue the Civil & Environmental Engineering double major. (Civil Engineering is accredited by ABET.)

3/1/19

# One-Two Unit courses:

## First Year Seminars:

- <https://cee.engineering.ucdavis.edu/first-year-seminars>
- <https://fys.ucdavis.edu/>

## ENG 1: Intro to Engineering (CRN: 31855)



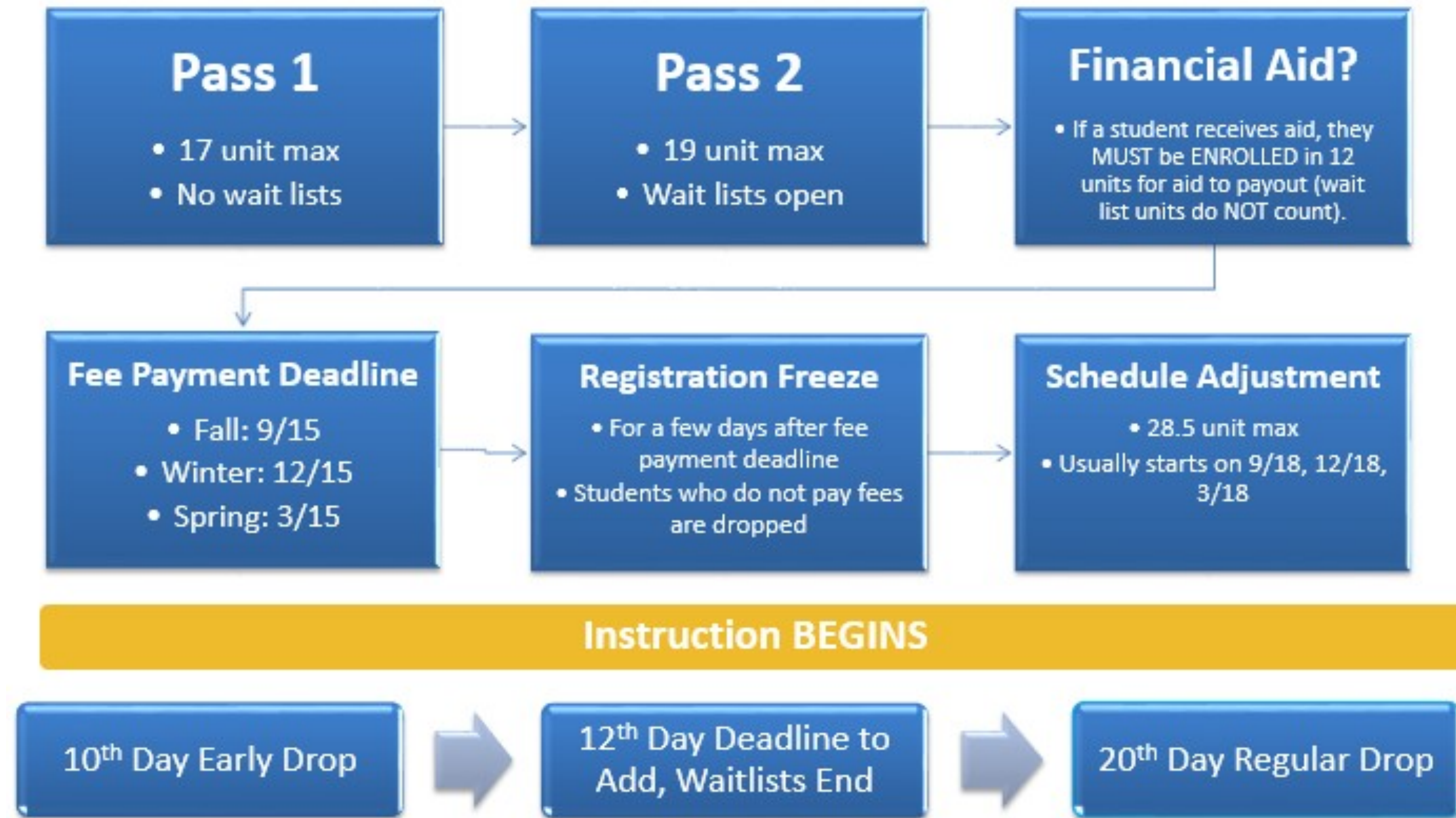
# English Placement, Math Placement or Chemistry Placement Questions?

If you still have questions about your placements, please contact us separately and we can set up another time to meet or join us during drop-in hours on Tuesday, September 29<sup>th</sup> from 10am-12pm

# Advanced Placement Credit (AP)

- Scores of 3, 4, or 5 will receive units of college credit, and may even be comparable to some lower-division courses.
  - AP credit may not substitute coursework required for GEs.
  - Be sure to avoid taking courses that would be duplicate credit for AP course already taken.
  - View AP chart for more information: [https://local-resources.ucdavis.edu/local\\_resources/docs/APIBCharts/APCurrent.pdf](https://local-resources.ucdavis.edu/local_resources/docs/APIBCharts/APCurrent.pdf)
- \*If you are unsure about what credit you will receive, we can discuss this further during the one-on-one sessions

## Course Registration Timeline





# Opportunities

- Undergraduate Research Center (URC)
- Internship and Career Center (ICC)
- Student Activities and Organizations (ASCE, EWB, SWE, cultural organizations, non-engineering clubs)
- Study Abroad

# Student Startup Center

1122 & 1124 Bainer Hall

Virtual Fall Quarter: [startup.ucdavis.edu](http://startup.ucdavis.edu)

Mission: Helping All UC Davis Students Start  
their Ventures

# Student Startup Resources

Immerse yourself in the startup world by coming to our discussion events:

Pitches & Popcorn - Come watch some startup pitches and eat popcorn! Discuss what makes a effective pitch deck.

Mentor Visits - Each week, we bring in a mentor active in the startup world to come talk about their experiences



# Student Startup Classes

ENG 8- Introduction to Entrepreneurship (Fall, Winter, Spring)

ENG 80- Launching a Business (Fall, Winter, Spring)

ENG 198- Hacking for Defense (Fall)

# Student Startup-Makerspace

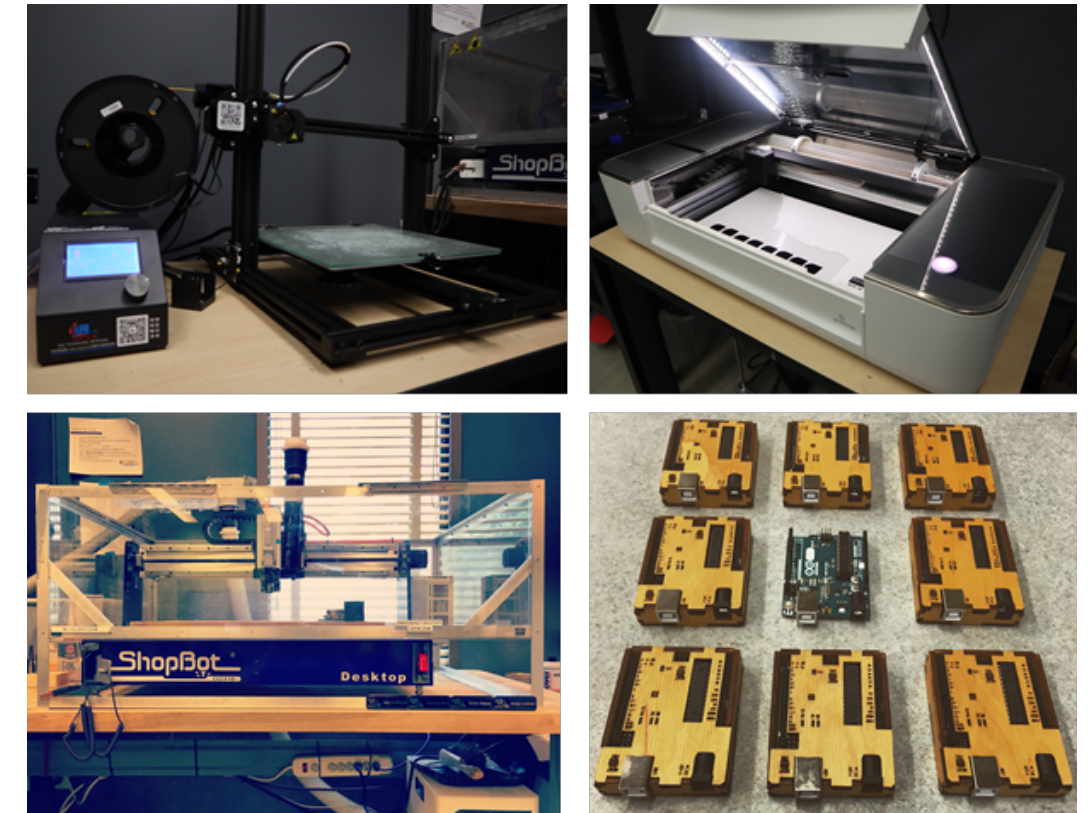
- Learn, Design, and Prototype with our Makerspace!  
Free for all students to use

- **Equipment**

- CAD Software
- 3D Printers
- CNC Router
- Laser Cutter/Engraver
- Arduino Microcontrollers
- Soldering kit

- **Equipment Training**

- Our quarterly workshops will teach you how to use all of our equipment
- If you want more detail about how something works, come in during our open hours and our student managers will help you out!



More info: <https://startup.ucdavis.edu/makerspace-equipment>

# Student Startup- Stay Connected

Follow on IG: @ucdssc

Join Slack Workspace [bit.ly/ssc-join](https://bit.ly/ssc-join)



# American Society of Civil Engineers (ASCE)

## Members have access to:

- Civil Engineering Career Fair
- Info sessions & guest speaker events
- Social events
- Intramural sports teams
- Job site & company tours
- Resume workshops
- Community Service events
- Mentorship program with Professionals
- Project team involvement
- Free food!!



<http://asceucdavis.weebly.com/>



# American Society of Civil Engineers (ASCE)

Competing Project teams:

- Steel Bridge
- Concrete Canoe
- Environmental Project
- Geowall
- Construction Management



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# Find us on Social Media:

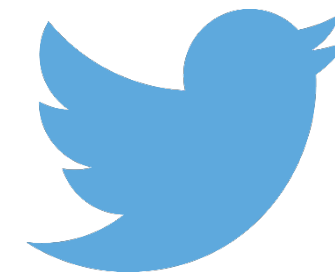
Facebook: @ucdcee

Instagram: @ucdaviscee

Twitter: @ucdaviscee

LinkedIn: CEE UC Davis

Slack: [ucdaviscee.slack.com](https://ucdaviscee.slack.com)





# QUESTIONS?

If you have a question later, email us at:  
[civiladvising@ucdavis.edu](mailto:civiladvising@ucdavis.edu)