Welcome to Civil Engineering and Environmental Engineering Aggie Orientation!

Civil and Environmental Engineering | UC Davis
Introductions

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2009 Ghausi Hall

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Academic Program Assistant
2015 Ghausi Hall

Macey Miyahara – civiladvising@ucdavis.edu
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
Department of Civil & Environmental Engineering (CEE)

Technical Areas
- Environmental
- Geotechnical
- Structural & Structural Mechanics
- Transportation
- Water Resources

Majors
- Civil Engineering B.S. (ECIV)
- NEW! Environmental Engineering B.S. (EENV)

Minors
- Construction Engineering & Management (ECFM)
- Sustainability in the Built Environment (ESBE)
ANNUAL ADVISING

REQUIRED:
Schedule based on your time at UC Davis

1st year and transfer: Fall Quarter Hold (release by November 30)
4th (and up) year and 2nd year: Winter Quarter Hold (release by February 28)
3rd 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

Link: appointments.ucdavis.edu
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.
Structure of Civil Engineering Major (ECIV)

Lower Division: 74 units
Upper Division: 64-70 units
General Education: 8-25 units
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
Structure of ECIV & EENV Double Major

Lower Division: 80 units
Upper Division: 80-85 units
General Education: 6-17 units

<table>
<thead>
<tr>
<th>First Year (0-44.9 units)</th>
<th>Example Schedule</th>
<th>Sophomore (45-89.9 units)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Fall</strong></td>
</tr>
<tr>
<td>MAT 21A</td>
<td>MAT 21C</td>
<td>MAT 21D</td>
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<tr>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CHE 2A</td>
<td>PHY 9A</td>
<td>PHY 9B</td>
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<td>5</td>
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<td>ECI 3</td>
<td>CHE 8A</td>
<td>ECI 40</td>
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<td>15</td>
<td>15-16</td>
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General Education Requirements*

- **Topical Breadth:** Arts & Humanities and Social Science ONLY
- **Cores Literacies:** Civic & Cultural Literacy ONLY\(OL/WE \& VL \text{ in EENV Major}\)
- *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\textsuperscript{st} 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 Areas**

<table>
<thead>
<tr>
<th>A. Arts &amp; Humanities (AH)</th>
<th>B. Science &amp; Engineering (SE)</th>
<th>C. Social Sciences (SS)</th>
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<tbody>
<tr>
<td>[ ] 6 units</td>
<td>[ ] 8 units</td>
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</table>

**12-20 units**

<table>
<thead>
<tr>
<th>CRI units</th>
<th>CIS units</th>
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**Case Literacies**

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<tr>
<th>Category</th>
<th>Units</th>
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<tbody>
<tr>
<td>[ ] 3 units</td>
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#### Summary

- Satisfied

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**Remaining GE Requirements**

- [ ] 3 units

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**Civil and Environmental Engineering | UC Davis**
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

*If you are unsure about what credit you will receive, we can discuss this further during the one-on-one sessions*
Course Registration Timeline

**Pass 1**
- 17 unit max
- No wait lists

**Pass 2**
- 19 unit max
- Wait lists open

**Financial Aid?**
- If a student receives aid, they MUST be ENROLLED in 12 units for aid to payout (wait list units do NOT count).

**Fee Payment Deadline**
- Fall: 9/15
- Winter: 12/15
- Spring: 3/15

**Registration Freeze**
- For a few days after fee payment deadline
- Students who do not pay fees are dropped

**Schedule Adjustment**
- 28.5 unit max
- Usually starts on 9/18, 12/18, 3/18

Instruction BEGINS

**10th Day Early Drop**

**12th Day Deadline to Add, Waitlists End**

**20th Day Regular Drop**
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

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 an 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
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
Find us on Social Media:

Facebook: @ucdcee
Instagram: @ucdaviscee
Twitter: @ucdaviscee
LinkedIn: CEE UC Davis
Slack: ucdaviscee.slack.com
QUESTIONS?

If you have a question later, email us at: civiladvising@ucdavis.edu