

**CIVIL ENGINEERING DEGREE REQUIREMENTS 2021-2022 \*\*\* LOWER DIVISION \*\*\***

Course	Title	Units	Qtr(s) Offered	Prerequisites & Enrollment Restrictions
<b>MAT 21A*</b>	Calculus <i>D</i>	4	F W S	2 yrs high school algebra, plane trig, plane & analysis. Geometry & placement by exam
<b>MAT 21B*</b>	Calculus <i>D</i>	4	F W S	MAT 21A w/ C- or better
<b>MAT 21C*</b>	Calculus <i>D</i>	4	F W S	MAT 21B w/ C- or better
<b>MAT 21D*</b>	Vector Analysis <i>D</i>	4	F W S	MAT 21C w/ C- or better
<b>MAT 22A*</b>	Linear Algebra	3	F W S	MAT 21C w/ C- or better, Matlab/ENG 6 (or MAT 22AL concurrently)
<b>MAT 22B*</b>	Differential Equations	3	F W S	MAT 22A w/ C- or better
<b>PHY 9A*</b>	Classical Physics <i>LD</i>	5	F S	MAT 21B
<b>PHY 9B*</b>	Classical Physics <i>LD</i>	5	F W	PHY 9A, MAT 21C; MAT 21D (MBTC)
<b>PHY 9C</b>	Classical Physics <i>LD</i>	5	W S	PHY 9B, MAT 21D; MAT 22A (MBTC)
<b>CHE 2A*</b>	General Chemistry <i>LD</i>	5	F W	Placement by exam
<b>CHE 2B*</b>	General Chemistry <i>LD</i>	5	W S	CHE 2A w/ C- or better
<b>ENG 35*</b>	Statics <i>D</i>	4	F W S	MAT 21D (MBTC), PHY 9A all with C- or better; <i>Pass 1 Engineering only</i>
<b>ECI 3 (SS)</b>	Civil Infrastructure and Society <i>L</i>	4	F	MAT 21A (MBTC) [First-yr./Soph course - or replace with 4 units of ECI Elective]
<b>ECI 16 (QL)</b>	Spatial Data Analysis <i>L</i>	2	W	Restricted to Civil and Bio Sys Eng majors

**PHYSICAL and BIOLOGICAL SCIENCES requirement:** select 1 of the following courses (5 units required)

<b>BIS 2A</b>	Intro to Biology <i>D</i>	5	F W S	
<b>GEL 50-50L</b>	Physical Geology & Lab	3/2	F W S	High school phys & chem; reduced unit credit if GEL 1 completed

**PROGRAMMING requirement:** select 1 of the following courses (4 units required)

<b>ENG 6* (QL)</b>	Engineering Problem Solving (Matlab) <i>D</i>	4	F W S	MAT 21A with C- or better; MAT 21B with C- or better (MBTC)
<b>ECS 32A*</b>	Programming & Prob Solving (Python) <i>D</i>	4	F W S	No credit if took ECS 10, ECS 30 or higher

**COMMUNICATION requirement:** select 1 of the following courses (4 units required)

<b>ENG 3 (SS &amp; OL)</b>	Intro to Engineering Design <i>L</i>	4	F W S	Completion of Entry Level Writing Requirement
<b>CMN 1 (AH, SS &amp; OL/WE)</b>	Intro to Public Speaking <i>D</i>	4	F W S	
<b>CMN 3 (SS &amp; WE)</b>	Interpersonal Commun. Competence <i>D</i>	4	F W S	CMN 3Y or 3V will not satisfy, CMN 3 will be removed by 2022-2023

**LOWER DIVISION ENGLISH COMPOSITION requirement:** select 1 of the following courses (4 units required) (may not simultaneously fulfill GE topical breadth)

<b>UWP 1, 1V, or 1Y</b>	Expository Writing <i>D</i>	4	F W S	Compl. of Entry Level Writing Req. (pass with C- or better)
<b>ENL 3 (English)</b>	Introduction to Literature <i>D</i>	4	F W S	Compl. of Entry Level Writing Req. (pass with C- or better)
<b>COM 1 (Comp Lit)</b>	Bks of West. Cul: Ancient World <i>D</i>	4	F W S	Compl. of Entry Level Writing Req. (pass with C- or better)
<b>COM 2</b>	Bks of West. Cul: Mid Ages-Enlight <i>D</i>	4	F W S	Compl. of Entry Level Writing Req. (pass with C- or better)
<b>COM 3</b>	Bks of West. Cul: Modern Crisis <i>D</i>	4	F W S	Compl. of Entry Level Writing Req. (pass with C- or better)
<b>COM 4</b>	Bks of the Contemporary World <i>D</i>	4	F W S	Compl. of Entry Level Writing Req. (pass with C- or better)
<b>NAS 5 (Native Amer Std)</b>	Intro to Native American Literature <i>D</i>	4	F W S	Compl. of Entry Level Writing Req. (pass with C- or better)

**GENERAL EDUCATION (GE) requirement:** ~8-25 additional units for Civil Engineering majors

GE req. & worksheets can be found at: <https://cee.engineering.ucdavis.edu/undergraduate/majors-minors/civil-engineering> GE may be taken anytime. Complete by graduation.

**Minimum Requirements for College of Engineering Change of Major or Double Major\*\*:** Please consult with an advisor if you want to change majors

1. Registered student & completed at least 1 quarter at UCD (12 units)	2. Have fewer than 135 cumulative units (excluding AP units)
3. Be in good academic standing and meet minimum progress	4. Receive a letter grade for all courses that satisfy engineering degree requirements (exceptions for 2020-2021)
5. a) Complete at least the following five courses: <b>MAT 21A, B, C, PHY 9A, and CHE 2A</b> , and b) have a GPA of 2.00 or better in all completed <b>MAT, PHY, BIS, GEL, and CHE</b> courses required for your intended major, and receive a <b>C- or better</b> in each of these courses	
6. Have no grade lower than a C- in any completed engineering course required for your intended major(s) taken at UC Davis	7. Have a 2.00 UC GPA in completed engineering courses
8. Have completed all transfer admission coursework and GPA requirements (3.2 GPA from previous institution(s) for coursework below). See <a href="https://www.ucdavis.edu/admissions/transfer/major-requirements-college-engineering">https://www.ucdavis.edu/admissions/transfer/major-requirements-college-engineering</a> for details. For students who have not completed all transfer admission requirements at their previous institution, they must earn a 2.0 GPA or higher in these remaining courses at UC Davis, and receive a C- or better in each of these 15 courses: <b>MAT 21A, B, C, D; MAT 22A, B; CHE 2A, B; PHY 9A, B, C; ENG 35; Select 1: ENG 6, ECS 30, 32A; Select 1: ENG 3, CMN 1, 3; Select 1: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5.</b>	

\*\*Requirements subject to change. See <https://engineering.ucdavis.edu/advising-faqs> for current requirements.

**MINIMUM 2.00 UC GPA and MINIMUM 2.00 ENGINEERING GPA required to receive degree certification.**

First-Year Seminar offerings: <http://fys.ucdavis.edu/student/index.html>

	First Year (0-44.9 units)				Example Schedule				Sophomore (45-89.9 units)			
Fall	Winter		Spring		Fall	Winter		Spring		Fall	Spring	
MAT 21A	4	MAT 21B	4	MAT 21C	4	MAT 21D	4	MAT 22A (22A Lab)3(1)	MAT 22B	3	MAT 22B	3
English Elective	4	CHE 2A	5	PHY 9A	5	PHY 9B	5	PHY 9C	5	CMN 1 or 3 or ENG 3	4	4
ECI 3	4	GE Elective	4	CHE 2B	5	GE Elective	4	GE Elective	4	ENG 35	4	4
GE Elective	4		13		14	ENG 6 or ECS 32A	4	ECI 16	2	Phy/Bio Elective	5	5
	16						17		14(15)			16

(MBTC) = Course may be taken concurrently L = Course has a Lab D = Course has a Discussion

GENERAL EDUCATION: AH = Arts & Humanities SS = Social Science OL = Oral Skills WE = Additional Writing Experience

\* = C- or better grade in this course is a prerequisite for most engineering coursework (both lower and upper division). It is always an instructor's option to drop students without the posted prerequisites for their course. Engineering instructors will exercise this option frequently.

Course	Title	Units	Otr(s)	Offered	Prerequisites & Enrollment Restrictions	Notes
<b>FLUID MECHANICS: select 1 of the following courses (4 units required)</b>						
<b>ECI 100*</b>	Fluid Mechanics for Civil/Env Eng. <i>L</i>	4	F	W	ENG 35, MAT 22B, PHY 9B all with C- or better; <i>Pass 1 ECIV/EENV only</i>	
<b>ENG 103*</b>	Fluid Mechanics <i>D</i>	4	F	W S	ENG 35, MAT 22B, PHY 9B all with C- or better; <i>Open to eng. only</i>	
<b>ENG 104*</b>	Mechanics of Materials	4	F	W S	ENG 35, MAT 22B both with C- or better <b>Do not take 104L concurrently</b>	
<b>ENG 104L</b>	Mechanics of Materials Lab	1	W	S	ENG 104 <b>Cannot take lab concurrently with ENG 104</b>	
<b>ENG 106 (SS &amp; SL)</b>	Engineering Economics	4	W		Upper division standing in Engineering	
<b>ECI 114 (QL)</b>	Probabilistic Sys. Analy. for Civ. Engrs.	4	W	S	MAT 21C w/ C- or better; <i>Pass 1 ECIV/EENV only</i>	
<b>DYNAMICS or THERMODYNAMICS requirement: select 1 of the following two courses (4 units required)</b>						
<b>ENG 102 (VL)</b>	Dynamics <i>D</i>	4	F	W S	ENG 35, MAT 22B both with C- or better; <i>Open to eng. only</i>	
<b>ENG 105 (VL)</b>	Thermodynamics <i>D</i>	4	F	W S	MAT 22B, PHY 9B all with C- or better; <i>Open to eng. only</i>	

### Civil & Environmental Engineering (ECI) Breadth and Depth Requirement – 8 courses total

Select **1 breadth course** from 4 of the 5 areas (15-17 units), and **2 depth courses** from 2 of the 4 areas selected for breadth (16 units).

(b) = breadth course (d) = depth course (b/d) = breadth or depth course, cannot be used for both

ENVIRONMENT						
(b) <b>ECI 140A*</b>	Env. Analysis of Aqueous Sys. <i>L</i>	4	F		CHE 2B w/ C- or better; ECI 40 (MBTC); <i>Pass 1 open to env. engineering</i>	
(b/d) <b>ECI 140B*</b>	Chem. Principles for Env. Eng.	4	F	W	CHE 2B w/ C- or better	
(b) <b>ECI 148A*</b>	Water Quality Management	4		not offered 21-22	CHE 2B w/ C- or better	
(b/d) <b>ECI 149*</b>	Air Pollution <i>L</i>	4	F		MAT 21D & 22B; CHE 2B & ECI 100 or ENG 103 both w/ C- or better	
(d) <b>ECI 140C*</b>	Bio. Principles for Env. Eng.	4		W	ECI 140B w/ C- or better; ECI 40	
(d) <b>ECI 140D*</b>	Water & Wastewater Treatment Sys. Design <i>L</i>	4		S	ECI 140B, ECI 140C both w/ C- or better; ECI 40	
GEOTECHNICAL:						
(b) <b>ECI 171*-171L</b>	Soil Mechanics & Lab	4/1	W	S	ECI 100 or ENG 103 (MBTC); ENG 104 w/ C- or better; <b>171L concurrently</b> ; <i>ECIV/EENV only</i>	
(d) <b>ECI 173</b>	Foundation Design	4		S	ECI 171	
(d) <b>ECI 175</b>	Geotechnical Earthquake Engineering	4	F		ECI 171 w/ C- or better	
(d) <b>ECI 179</b>	Pavement Engineering <i>L</i>	4	W		ENG 104 w/ C- or better <i>-may only count for one depth area-</i>	
STRUCTURES:						
(b) <b>ECI 130*</b>	Structural Analysis	4	W	S	ENG 104 w/ C- or better; MAT 22A; <i>ECIV/EENV only</i>	
(d) <b>ECI 131*</b>	Matrix Structural Analysis <i>L</i>	4	F		ENG 104 w/ C- or better; ENG 6	
(d) <b>ECI 132*</b>	Struct. Design: Metallic Elem.	4	F		ECI 130 C- or better	
(d) <b>ECI 133</b>	Civil Engineering Materials	4		S	CHE 002A C- or better; ENG 035 C- or better	
(d) <b>ECI 134</b>	Struct. Loads: Calculation & Modeling	4	W		ECI 130 C- or better	
(d) <b>ECI 135*</b>	Struct Design: Concrete Elem. <i>L</i>	4	W	S	ECI 130 C- or better; Restricted to ECIV majors	
(d) <b>ECI 136</b>	Building Design <i>L</i>	4		not offered 21-22	ECI 130 C- or better or 131 C- or better; ECI 132 or 135 C- or better	
(d) <b>ECI 138</b>	Earthquake Loads on Structures <i>D</i>	4	F		ECI 130 C- or better or ECI 131 C- or better	
TRANSPORTATION:						
(b/d) <b>ECI 161</b>	Transportation System Operations <i>D</i>	4	W	S	MAT 21C & PHY 9A both w/ C- or better	
(b) <b>ECI 163 (SS&amp;WE)</b>	Energy/Env. Aspects of Trans.	4		not offered 21-22	<b>offered Fall '22 – even years only</b>	
(b) <b>ECI 165 (SS&amp;QL)</b>	Transportation Policy	3	F		<b>offered Fall '21 – odd years only</b>	
(d) <b>ECI 153</b>	Deterministic Optimization & Design <i>L</i>	4	F		MAT 21C, 22A, programming course <i>-may only count for depth OR math elec.-</i>	
(d) <b>ECI 179</b>	Pavement Engineering <i>L</i>	4	W		ENG 104 w/ C- or better <i>-may only count for one depth area-</i>	
WATER RESOURCES:						
(b) <b>ECI 141*-141L</b>	Engineering Hydraulics & Lab	3/1	F	W	ECI 100 or ENG 103 w/ C- or better; <i>Pass 1 ECIV/EENV only</i>	
(d) <b>ECI 142</b>	Engineering Hydrology	4	F		ECI 141 (MBTC); <i>engineering only</i>	
(d) <b>ECI 144</b>	Groundwater Systems Design	4		S	ECI 141	
(d) <b>ECI 145</b>	Hydraulic Structure Design <i>L/D</i>	4		not offered 21-22	ECI 141 w/ C- or better	
(d) <b>ECI 146</b>	Water Resources Simulation <i>D</i>	4	W		ECI 141 w/ C- or better	
(d) <b>ECI 155 (SS)</b>	Water Resources Eng. Planning	4		not offered 21-22	ENG 106 or ECN 1A; ECI 114	

### MATHEMATICAL ANALYSIS requirement: select ONE of the following four courses (4 units required)

<b>ECI 115</b>	Computer Methods in Civil Eng <i>L</i>	4	W	S	ENG 6 or ECS 30 or ECS 32A w/ C- or better; MAT 22B C- or better
<b>ECI 153</b>	Deterministic Optimization & Design <i>L</i>	4	F		MAT 21C, 22A, programming course <i>-may only count for depth OR math elec. (Uses Python)</i>
<b>MAT 118A</b>	Partial Diff. Eqns:Elementary Methods	4	F		MAT 21D, 22A, 22B Will be removed beginning 2022-2023

### Senior Design Experience (SDE) Requirement: (8 units required) courses must be taken consecutively & must be in final year of study

<b>ECI 193A (OL&amp;WE)</b>	ECI Senior Design <i>L</i>	4	W		(ECI 140D) or (ECI 171/ 171L) or (ECI 132 or ECI 135) or (ECI 141/141L); 4 sections offered in 21-22: Env, Water, Structures, & Geotech
<b>ECI 193B (OL&amp;VL)</b>	ECI Senior Design <i>L</i>	4	S		one other ECI Depth course, all w/ C- or better; & graduating w/in 1 yr ECI 193A – In Progress Grading for ECI 193A&B – final grades posted in Spring

(MBTC) = Course may be taken concurrently L = Course has a Lab D = Course has a Discussion

GENERAL EDUCATION: SS = Social Science WE = Writing Experience VL = Visual Literacy QL = Quantitative Literacy SL = Scientific Literacy  
OL = Oral Literacy

\* = C- or better grade in this course is a prerequisite for some engineering coursework. It is always an instructor's option to drop students without the posted prerequisites for their course. Engineering instructors will exercise this option frequently.

**CIVIL & ENVIRONMENTAL ENGINEERING (ECI) ELECTIVE requirement: 16 units required → or 20<sup>1</sup> units required if ECI 3 is not completed**

→ ECI Electives are additional upper division, letter-graded ECI courses not already used towards satisfying other ECI requirements. If both ENG 102 and 105 are completed, then four units will be considered towards the ECI electives.

May also include up to 6 units of the following:

- ECI 198<sup>2</sup> Group Study (with Faculty) 1-5 F W S Upper division standing
- ECI 199<sup>2</sup> Research (with Faculty) 1-5 F W S Upper division standing

<sup>1</sup>A maximum of 4 upper division units outside of Civil & Environmental Engineering may be considered on a petition basis. Please consult with an undergraduate staff advisor.

<sup>2</sup>Unit credit might be possible when working on a group project (ECI 198) or with a professor in the department on a research project (ECI 199). ECI 198 may be awarded to students involved with competition teams or other group projects. Students are encouraged to ask professors about research possibilities available to undergraduates. An ECI 198/199 form must be completed (including the portion filled in and signed by the professor) and returned by the student to the advisor to receive a CRN#. The form is available on our website: <http://cee.engr.ucdavis.edu/forms/>.

**ADDITIONAL ECI COURSES (can be used as ECI electives):**

<b>ECI 123</b> <sup>(SS, ACGH &amp; DD)</sup>	Urban Systems & Sustainability	4		S	Upper division standing; <i>Pass 1 ECIV/EENV only</i>
<b>ECI 125</b>	Building Energy Performance	4	not offered 21-22		Upper division standing in Engineering
<b>ECI 137</b> <sup>(SS&amp;QL)</sup>	Construction Prin. & Proj. Mgmt. L	4	F		Upper division standing in Engineering; ENG 106 recommended
<b>ECI 139</b>	Advanced Structural Mechanics	4	not offered 21-22		ENG 104 w/ C- or better

**UPPER DIVISION ENGLISH COMPOSITION requirement: satisfy by Exam (0 units) - or take ONE of the UWP courses listed below (4 units)**

**English Composition Exam** (given 4<sup>th</sup> Saturday of each quarter – no more than 2 chances to pass the exam – low pass rate in recent offerings)

Exam details at: <http://writing.ucdavis.edu/compexam>

<b>UWP 101 or 101Y</b>	Advanced Composition <b>D</b>	4	F	W	S	One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better)
<b>UWP 102E or 102EY</b>	Writing in the Disciplines: <u>Engineering</u> <b>D</b>	4	F	W	S	One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better)
<b>UWP 102G or 102GY</b>	Writing in the Disciplines: <u>Environmental</u> <b>D</b>	4			S	One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better)
<b>UWP 104A or 104AY</b>	Writing in the Professions: <u>Business</u> <b>D</b>	4	F	W	S	One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better)
<b>UWP 104E or 104EY</b>	Writing in the Professions: <u>Science</u> <b>D</b>	4	F	W	S	One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better)
<b>UWP 104T or 104TY</b>	Writing in the Professions: <u>Technical</u> <b>D</b>	4	F	W	S	One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better)

Junior (90-134.9 units)			Example Schedule			Senior (135 or more units)		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
ENG 103/ECI 100 4	ECI Breadth 4	ECI Breadth 4	ECI Depth 4	ECI 193A 4	ECI 193B 4	ECI Depth 4	ECI Depth 4	ECI Elective 4
ENG 104 4	ENG 104L 1	ECI Breadth 4	ECI Depth 4	ECI Depth 4	ECI Elective 4	ECI Depth 4	ECI Depth 4	ECI Elective 4
ECI Breadth 4	ENG 106 3	GE Elective 4	ECI Elective 4	ECI Depth 4	ECI Elective 4	ECI Depth 4	ECI Depth 4	ECI Elective 4
GE Elective 4	Math Anlys. Elect 4	Upper Div Comp 0-4	ENG 102 or 105 4	ECI Elective 4	ECI Elective 4	ENG 102 or 105 4	ECI Elective 4	ECI Elective 4
16	ECI 114 4	12-16	16	16	12	16	16	12
	16							

GENERAL EDUCATION: SS=Social Science ACGH=American Cultures, Governance & History DD=Domestic Diversity

**Close to Graduation? Two separate websites to visit – one for degree certification/diploma and one to participate in a ceremony:**

1. Graduation Online Application (apply qtr. before completing coursework): <http://registrar.ucdavis.edu/graduation>
2. Participate in Commencement (June or December ceremony): <http://commencement.ucdavis.edu/registration.html>

**MINIMUM 2.00 UC GPA and MINIMUM 2.00 ENGINEERING GPA required to receive degree certification.**

**Academic Advisor Contact Information & Useful Websites:**

**Civil & Environmental Engineering Program Advisor & Peer Advisor:** [civiladvising@ucdavis.edu](mailto:civiladvising@ucdavis.edu), 2015 Ghausi Hall  
**College of Engineering Undergraduate Education Office, 1050 Kemper Hall** Main phone number: 752-1979 Engineering Peer Advisors: 752-0553

Civil & Environmental Engineering: <a href="http://cee.engr.ucdavis.edu">http://cee.engr.ucdavis.edu</a>	OASIS Student Advising: <a href="http://oasis.ucdavis.edu">http://oasis.ucdavis.edu</a>
College of Engineering: <a href="http://engineering.ucdavis.edu">http://engineering.ucdavis.edu</a>	Advising Appointment System: <a href="https://appointments.ucdavis.edu/">https://appointments.ucdavis.edu/</a>
Office of the Registrar (Online Catalog & more): <a href="http://registrar.ucdavis.edu">http://registrar.ucdavis.edu</a>	Schedule Builder: <a href="http://sisweb.ucdavis.edu/">http://sisweb.ucdavis.edu/</a>
Class Search Tool: <a href="http://classes.ucdavis.edu">http://classes.ucdavis.edu</a>	Equivalent courses at Community Colleges: <a href="http://www.assist.org">http://www.assist.org</a>
Summer Sessions: <a href="http://summer-sessions.ucdavis.edu">http://summer-sessions.ucdavis.edu</a>	Internship & Career Center: <a href="http://icc.ucdavis.edu">http://icc.ucdavis.edu</a>
Undergrad Research Center: <a href="http://undergraduateresearch.ucdavis.edu">http://undergraduateresearch.ucdavis.edu</a>	FE Exam: <a href="http://ncces.org/engineering/fe/">http://ncces.org/engineering/fe/</a>
Study Abroad: <a href="http://studyabroad.ucdavis.edu/">http://studyabroad.ucdavis.edu/</a>	My Degree: <a href="https://mydegree.ucdavis.edu">https://mydegree.ucdavis.edu</a>

**Academic Standing** is determined by **grade point average (GPA)** from both the most recent quarter **and** the cumulative/UC GPA at the end of Fall, Winter and Spring Quarter; as well as units completed toward **Minimum Progress (MP)** (must complete 12 units per quarter). **Good Standing** = GPA of 2.00 or above (quarterly and cumulatively) and satisfaction of MP.

**Academic Probation (AP)** = GPA less than 2.00, but not less than 1.50, for the quarter, and/or GPA less than 2.00 for all courses taken within UC, and/or MP less than 12 units per quarter.

**Subject to Disqualification (SD)** = GPA less than 1.50 for the quarter, and/or GPA less than 1.50 for all courses taken within UC, and/or MP less than 12 units per quarter.

**Course Repeat Policy** - Students may repeat one time for credit a course in which they received a D+, D, D-, F or NP. The second (i.e. repeat) grade replaces the first grade in the GPA for a maximum of 16 units (courses must be repeated at UC Davis). After 16 units, both grades remain in the GPA. Both grades remain on the transcript for all repeated coursework. Repeating the same course more than once requires approval via a Multiple Repeat Petition, available on [OASIS](http://oasis.ucdavis.edu).

--The Civil Engineering degree is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org> --

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