

CIVIL ENGINEERING DEGREE REQUIREMENTS 2016-2017 * LOWER DIVISION *****

Course	Title	Units	Qtr(s)	Offered	Prerequisites & Enrollment Restrictions	Notes and web links to resources
MAT 21A*	Calculus <i>D</i>	4	F	W	S	2 yrs high school algebra, trig, geometry & placement by exam
MAT 21B*	Calculus <i>D</i>	4	F	W	S	MAT 21A w/ C- or better → assistance in Math:
MAT 21C*	Calculus <i>D</i>	4	F	W	S	MAT 21B w/ C- or better https://www.math.ucdavis.edu/resources/learning/
MAT 21D*	Vector Analysis <i>D</i>	4	F	W	S	MAT 21C w/ C- or better and http://success.ucdavis.edu
MAT 22A*	Linear Algebra	3	F	W	S	MAT 21C w/ C- or better, Matlab (or MAT 22AL concurrently)
MAT 22B*	Differential Equations	3	F	W	S	MAT 22A w/ C- or better
PHY 9A*	Classical Physics <i>L/D</i>	5	F		S	MAT 21B → assistance in Physics:
PHY 9B*	Classical Physics <i>L/D</i>	5	F	W		PHY 9A, MAT 21C; MAT 21D (MBTC) http://success.ucdavis.edu
PHY 9C	Classical Physics <i>L/D</i>	5		W	S	PHY 9B, MAT 21D; MAT 22A (MBTC)
CHE 2A*	General Chemistry <i>L/D</i>	5	F	W		Placement by exam score or prep path → assistance in Chem:
CHE 2B*	General Chemistry <i>L/D</i>	5		W	S	CHE 2A http://success.ucdavis.edu
ENG 35*	Statics <i>D</i>	4	F	W	S	MAT 21D (MBTC), PHY 9A all with C- or better; <i>Pass 1 Engineering only</i>
ENG 45 or 45Y	Properties of Materials <i>L</i>	4	F	W	S	MAT 21C, CHE 2A, PHY 9A all with C- or better; <i>Pass 1 Engineering only</i>
ECI 3	Civil Infrastructure and Society <i>L</i>	4	F			MAT 21A (MBTC) [Fresh/Soph course - or replace with 4 units of ECI Elective]
ECI 16	Spatial Data Analysis <i>L</i>	2			S	Restricted to Civil and Bio Sys Eng majors

PHYSICAL and BIOLOGICAL SCIENCES requirement: select 1 of the following 4 courses (4 units required)

PHY 9D	Modern Physics <i>D</i>	4	F		S	PHY 9C, MAT 22A; MAT 22B recom (MBTC)
CHE 2C	General Chemistry <i>L/D</i>	5	F		S	CHE 2B
BIS 2A	Intro to Biology <i>D</i>	5	F	W	S	
GEL 50-50L	Physical Geology & Lab	3/2	F	W		High school phys & chem -reduced unit credit if GEL 1 completed -

PROGRAMMING requirement: select 1 of the following 3 courses (4 units required)

ECI 19	C Programming for Engineers <i>L</i>	4				not offered 16-17 MAT 21A (MBTC) *rarely offered
ENG 6	Engineering Problem Solving (Matlab) <i>D</i>	4	F	W	S	MAT (16A or) 21A with C- or better; MAT 21B (MBTC)
ECS 30	Programming & Prob Solving (C) <i>D</i>	4	F	W	S	MAT 21A (MBTC); prior programming experience recomm/expected

COMMUNICATION requirement: select 1 of the following 2 courses (4 units required)

CMN 1	Intro to Public Speaking <i>D</i>	4	F	W	S	
CMN 3	Interpersonal Commun. Competence <i>D</i>	4	F	W	S	

LOWER DIVISION ENGLISH COMPOSITION requirement: select 1 of the following 7 courses (4 units required) (may not simultaneously fulfill GE topical breadth)

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

GE requirements, GE worksheets, and popular GEs can be found on our website: <http://cee.engr.ucdavis.edu/ge/>

GE 3 (for students entering the program Fall 2011 and on): ~23-27 additional units for Civil Engineering students.

GE Course Look Up Tool: http://registrar.ucdavis.edu/courses/ge_courses/ GE may be taken anytime. Complete by graduation.

Minimum Requirements for Change of Major in the College of Engineering:

1. Finish at least one quarter at UCD	2. Have fewer than 135 units
3. Be in good academic standing and meet minimum progress	4. Receive a letter grade for all courses that satisfy engineering degree requirements
5. a) Complete at least the following five courses: MAT 21A, B, C, PHY 9A, and CHE 2A , and b) have a GPA of 2.00 or better in all completed MAT, PHY, BIS, and CHE courses required for your intended major, and receive a C- or better 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

MINIMUM 2.00 UC GPA and MINIMUM 2.00 ENGINEERING (Major) GPA required to receive degree certification.

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

Freshman (0-44.9 units)				Example Schedule		Sophomore (45-89.9 units)					
Fall		Winter		Spring		Fall		Winter		Spring	
MAT 21A	4	MAT 21B	4	MAT 21C	4	MAT 21D	4	MAT 22A (22A Lab)3(1)		MAT 22B	3
English Elective	4	CHE 2A	5	PHY 9A	5	PHY 9B	5	PHY 9C	5	ENG 45^	4
ECI 3	4	GE Elective	4	CHE 2B	5	GE or Phy/Bio Elective^	4	GE Elective	4	ECI 16	2
(GE Elective	4)	GE or Phy/Bio Elective^	4		14	Programming Elective	4	ENG 35^	4	ECI 114	4
	12-16		17				17		16(17)		13

^ may take another quarter instead

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

* = 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.

CIVIL ENGINEERING DEGREE REQUIREMENTS

2016-2017

***** UPPER DIVISION *****

Course	Title	Units	Otr(s) Offered	Prerequisites & Enrollment Restrictions	Notes
ENG 103*	Fluid Mechanics	4	F W S	ENG 35, MAT 22B, PHY 9B all with C- or better	
ENG 104*	Mechanics of Materials	4	F W S	ENG 35, MAT 22B both with C- or better -Do not take 104L concurrently-	
ENG 104L	Mechanics of Materials Lab	1	W S	ENG 104 -Do not take lab concurrently with ENG 104-	
ENG 106	Engineering Economics	3	W	Upper division standing in Engineering	
ECI 190	Civil Engineer in Society	2	F S	Upper division standing in Civil Engineering	
ECI 114	Probabilis. Sys. Analysis for Civ. Engrs.	4	W S	MAT 21C w/ C- or better; Pass 1 majors only	
ENG 102 OR	Dynamics	4	F W S	ENG 35, MAT 22B both with C- or better	
ENG 105	Thermodynamics		F W S	MAT 22B, PHY 9B both with C- or better	

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

ECI 115	Computer Methods in Civil Eng L	4	not offered 16-17	ENG 6 or ECS 30; MAT 22B
ECI 153	Deterministic Optimization & Design L	4	F	MAT 21C, 22A, programming course
MAT 118A	Partial Diff. Eqns:Elementary Methods	4	F	MAT 21D, 22A, 22B (extensive problem solving)
Statistics 108	Appl. Stat. Methods:Regression Analy D	4	F W S	Statistics 13, 32, 102 or ECI 114; Pass 1 STA majors only

Civil & Environmental Engineering (ECI) Breadth and Depth Requirement - replaces former Group Option Req. from 2015-16 and earlier

Select **1 breadth course** from 4 of the 5 areas (14-17 units), and **2 depth courses** from 2 of the 5 areas (15-16 units) →8 courses total
 (b) = breadth course, (d) = depth course, (b/d) = breadth or depth course, cannot be used for both

ENVIRONMENT					
(b/d)	ECI 140	Env. Analysis of Aqueous Sys.	3	F	CHE 2B
(b/d)	ECI 148A*	Water Quality Management	4	W	CHE 2B w/ C- or better
(b/d)	ECI 149*	Air Pollution D	4	F	MAT 21D & 22B; CHE 2B & ENG 103 both w/ C- or better
(d)	ECI 148B	Water Qual. Mgmt. Sys. Design L	4	S	ENG 103, ECI 148A both w/ C- or better; senior standing
(d)	ECI 150	Air Pollution Cont. Sys. Design D	4	W	ECI 149 w/ C- or better; senior standing
GEOTECHNICAL:					
(b)	ECI 171*-171L	Soil Mechanics & Lab	4/1	F S	ENG 103 (MBTC); ENG 104 w/ C- or better; 171L concurrently
(d)	ECI 173	Foundation Design	4	W	ECI 171; senior standing
(d)	ECI 175	Geotechnical Earthquake Engineering	4	W	ECI 171 w/ C- or better
(d)	ECI 179	Pavement Engineering L	4	F	ENG 104 w/ C- or better -may only count for one depth area-
STRUCTURES:					
(b)	ECI 130	Structural Analysis	4	W S	ENG 104 w/ C- or better; MAT 22A
(d)	ECI 131	Matrix Structural Analysis L	4	S	ENG 104 w/ C- or better; ENG 6
(d)	ECI 132	Struct. Design: Metallic Elem.	4	F	ECI 130
(d)	ECI 135	Struct Design: Concrete Elem. L	4	W	ECI 130; Restricted to Civil Eng majors
(d)	ECI 136	Building Design L	4	S	ECI 130 or 131; ECI 132 or 135; senior standing
TRANSPORTATION:					
(b/d)	ECI 161*	Transportation System Operations D	4	F	MAT 21C & PHY 9A w/ C- or better
(b)	ECI 163*	Energy/Env. Aspects of Trans.	4	F	ENG 106 or ECN 1A
(b)	ECI 165	Transportation Policy	3	not offered 16-17	offered Fall '17
(d)	ECI 162	Transport Land Use Sustain. Design L	4	not offered 16-17	ECI 162 alternative will be W'17 & S'17 – See advisers for details
(d)	ECI 179	Pavement Engineering L	4	F	ENG 104 w/ C- or better -may only count for one depth area-
WATER RESOURCES:					
(b)	ECI 141*-141L	Engineering Hydraulics & Lab	3/1	F W	ENG 103 w/ C- or better
(d)	ECI 142	Engineering Hydrology	4	F	ECI 141 (MBTC)
(d)	ECI 144	Groundwater Systems Design	4	F	ECI 141
(d)	ECI 145	Hydraulic Structure Design LD	4	S	ECI 141 w/ C- or better; senior standing
(d)	ECI 146	Water Resources Simulation D	4	W	ENG 103

Senior Design Experience (SDE) Requirement: 2 courses from ECI Depth or ECI Elective must be from the following list:

ECI 127, ECI 136, ECI 145, ECI 148B, ECI 150, ECI 162, ECI 173
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Senior Design Experience Requirement changing in 2017-2018 – See advisers for details – Pilot courses offered Winter 2017 and Spring 2017

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

ECI 123	Urban Systems & Sustainability	4	S	Upper division standing
ECI 125	Building Energy Performance	4	not offered 16-17	Upper division standing in Engineering
ECI 126	Green Planning L	4	not offered 16-17	PHY 9C; upper division standing; consent of instructor via application
ECI 127	Green Design L	4	not offered 16-17	ECI 126 (126 & 127 taken as a sequence); senior standing
ECI 137	Construction Prin. & Proj. Mgmt. L	4	W	Upper division standing in Engineering; ENG 106 recommended
ECI 138	Earthquake Loads on Structures D	4	W	ECI 130 or 131
ECI 139	Advanced Structural Mechanics	4	not offered 16-17	ENG 104 w/C- or better
ECI 140L	Env. Analysis of Aqueous Sys. Lab L	1	F	CHE 2B (or equiv.); ECI 140 (MBTC)
ECI 143	Green Engr. Des. & sustainability D	4	W	Upper division standing; Pass 1 majors only
ECI 155	Water Resources Engrg. Planning	4	S	ENG 106 or ECN 1A; ECI 114

(MBTC) = Course may be taken concurrently

L = Course has a Lab

D = Course has a Discussion

CIVIL & ENVIRONMENTAL ENGINEERING (ECI) ELECTIVE requirement: 20 units required → or 24 units required if ECI 3 is not completed

→ECI Elective is additional upper division, letter-graded Civil & Environmental Engineering (ECI) courses (i.e. not already used towards the ECI Breadth, ECI Depth, and Math Analysis requirements), and **ENG 102 or ENG 105**.¹

May also include up to 6 units of the following:

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

¹ A maximum of 4 units outside of Civil & Environmental Engineering may be considered on a petition basis. Please consult with an undergraduate staff adviser.

² 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 normally 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 adviser to receive a CRN#. The form is available on our website: <http://cee.engr.ucdavis.edu/forms/>.

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 4th Saturday of each quarter – no more than 2 chances to pass the exam – low pass rate in recent offerings)

Exam details found at: <http://writing.ucdavis.edu/programs-and-services/upper-division-composition-exam-information>

UWP 101	Advanced Composition <i>D</i>	4	F	W	S	UWP 1 or ENL 3; Upper div. standing	(pass with C- or better)
UWP 102E	Writing in the Disciplines: <u>Engineering</u> <i>D</i>	4	F	W	S	UWP 1 or ENL 3; Upper div. standing	(pass with C- or better)
UWP 102G	Writing in the Disciplines: <u>Environmental Writing</u> <i>D</i>	4			S	UWP 1 or ENL 3; Upper div. standing	(pass with C- or better)
UWP 104A	Writing in the Professions: <u>Business Writing</u> <i>D</i>	4	F	W	S	UWP 1 or ENL 3; Upper div. standing	(pass with C- or better)
UWP 104E	Writing in the Professions: <u>Science</u> <i>D</i>	4	F	W	S	UWP 1 or ENL 3; Upper div. standing	(pass with C- or better)
UWP 104T	Writing in the Professions: <u>Technical Writing</u> <i>D</i>	4	F	W	S	UWP 1 or ENL 3; Upper div. standing	(pass with C- or better)

No unit of coursework may be used to satisfy two different degree requirements, i.e. although a course may be listed in more than one category, that course may only satisfy one requirement.

Junior (90-134.9 units)				<u>Example Schedule</u>				Senior (135 or more units)			
Fall		Winter		Spring		Fall		Winter		Spring	
ENG 103 [^]	4	ECI Breadth	4	ECI Breadth	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 Breadth	4	ENG 106	3	ECI Elective	4	ECI Elective	4	ECI Elective	4	CMN 1 or 3 [^]	4
GE Elective	4	Math Analysis Elect [^]	4	ECI 190 [^]	2	ENG 102 or 105	4	GE Elective	4	(GE	4)
	16	GE Elective	4	Upper Div Comp? ⁰⁻⁴			16		16		12-16
			16	(or passed exam?)	14-18						

[^] may take another quarter instead

Planning for an EDUCATION ABROAD or QUARTER ABROAD or SUMMER ABROAD experience? <http://studyabroad.ucdavis.edu>

Engineering students are encouraged to participate in these programs; Civil Engineering majors find that the curriculum allows the flexibility to include study abroad.

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 (Major) GPA required to receive degree certification.

Academic Adviser Contact Information & Useful Websites:

Reina Smarkel, Undergraduate Academic Program Coordinator, Civil Engineering, 2015 Ghausi Hall, civiladvising@ucdavis.edu

Lisa Anderson, Undergraduate Academic Program Assistant, Civil Engineering, 2009 Ghausi Hall, civiladvising@ucdavis.edu

College of Engineering Undergraduate Dean's Office, 1050 Kemper Hall Main phone number: 752-1979 Engineering Peer Advisers: 752-0553

Civil & Environmental Engineering: http://cee.engr.ucdavis.edu	OASIS Student Advising: http://oasis.ucdavis.edu
College of Engineering: http://engineering.ucdavis.edu	Advising Appointment System: https://appointments.ucdavis.edu/
Office of the Registrar (Online Catalog & more): http://registrar.ucdavis.edu	Schedule Builder: http://sisweb.ucdavis.edu/
Class Search Tool: http://classes.ucdavis.edu	Equivalent courses at Community Colleges: http://www.assist.org
Summer Sessions: http://summer-sessions.ucdavis.edu	Internship & Career Center: http://iccweb.ucdavis.edu
Undergrad Research Center: http://undergraduateresearch.ucdavis.edu	EIT/FE Exam http://www.pels.ca.gov & http://ncees.org/exams/fe-exam

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 average 13 units per quarter / total at least 39 units/year (Fall through Spring)). **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 average less than 13 units, but greater than or equal to 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 average 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, up to a 16 unit maximum (course must be repeated at UC). After 16 units, both grades remain in the GPA. Both grades remain on the transcript for all repeated coursework. Repeating a course more than once requires approval via a Multiple Repeat Petition, available on [OASIS](http://oasis).

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

Heather Bischel <i>Ecological sanitation and resource reuse; Pathogens and micropollutants; sustainable international development; water quality and reuse</i>	TBA	
John E. Bolander <i>Structural analysis; structural design; composite materials; nondestructive testing; optimization</i>	3121 Ghausi Hall, 752-8226	jebolander@ucdavis.edu
Fabian Bombardelli <i>Theoretical and numerical aspects of turbulence in multi-phase flow dynamics; environmental flows</i>	3105 Ghausi Hall, 752-0949	fabombardelli@ucdavis.edu
Ross W. Boulanger <i>Earthquake engineering; soil-structure interaction; laboratory testing; ground improvement</i>	3151 Ghausi Hall, 752-2947	rwboulanger@ucdavis.edu
Colleen Bronner <i>Engineering education (K - 20); aquatic ecosystem restoration and management; groundwater remediation</i>	3118 Ghausi Hall, 752-7523	cebronner@ucdavis.edu
Christopher Cappa <i>Air quality; atmospheric chemistry; atmospheric particulate matter; climate change</i>	3135 Ghausi Hall, 752-8180	cdcappa@ucdavis.edu (Department Vice Chair/Graduate Adviser)
Y.H. Rob Chai <i>Seismic retrofit of structures; bridge structures; earthquake engineering; reinforced concrete and masonry structures</i>	3133 Ghausi Hall, 752-2404	fzchai@ucdavis.edu
Lijuan Dawn Cheng <i>Infrastructure design and renewal using composites and engineered recycle materials; bridge design and analysis; large-scale testing</i>	3161 Ghausi Hall, 754-8030	dawcheng@ucdavis.edu
Yannis F. Dafalias <i>Continuum mechanics; structural mechanics; soil mechanics; constitutive models for metals, polymers, soils; large deformations; micromechanics</i>	3131 Ghausi Hall, 752-3423	jfdafalias@ucdavis.edu
Jeannie L. Darby <i>Water and wastewater treatment; water quality; disinfection; arsenic, nitrate, and chromium removal from water</i>	3129 Ghausi Hall, 752-5670	jdarby@ucdavis.edu (Department Vice Chair/Undergraduate Adviser)
Jason T. DeJong <i>In-situ and laboratory characterization; soil behavior; sensor and device development; bio-mediated soil improvement; earthquake engineering, foundation design</i>	3101 Ghausi Hall, 754-8995	jdejong@ucdavis.edu
Yueyue Fan <i>Network optimization and control; stochastic system modeling and analysis; risk management of transportation networks; applied mathematics/computation on transportation systems</i>	3137 Ghausi Hall, 754-6408	yyfan@ucdavis.edu
Alexander Forrest <i>Lakes, reservoirs, and ice; autonomous underwater vehicles; environmental fluid mechanics; aquatic chemistry and ecosystems</i>	3155 Ghausi Hall	alforrest@ucdavis.edu
John T. Harvey <i>Pavement materials, design, analysis, rehabilitation, construction, management, and quality; pavement environmental life cycle assessment</i>	3153 Ghausi Hall, 754-6409	jtharvey@ucdavis.edu
Jonathan Herman <i>Water resources planning and management; multi-objective optimization; system dynamics simulation</i>	3138 Ghausi Hall, 752-8870	jdherman@ucdavis.edu
Miguel A. Jaller <i>Sustainable urban transportation systems, city logistics; humanitarian logistics; supply chain management; operations research</i>	3143 Ghausi Hall, 752-7062	mjaller@ucdavis.edu
Boris Jeremić <i>Computational geomechanics; finite element methods; parallel computing; computer aided engineering</i>	3147 Ghausi Hall, 754-9248	jeremic@ucdavis.edu
Amit Kanvinde <i>Fracture and fatigue of steel structures; nonlinear structural analysis and design; performance based earthquake engineering</i>	3139 Ghausi Hall, 752-2605	amkanvinde@ucdavis.edu (Department Chair, 2049 Ghausi Hall)
M. Levent Kavvas <i>Hydrology; watershed hydrology; hydrometeorology; hydraulic models; erosion/sediment transport</i>	3165 Ghausi Hall, 752-2518	mlkavvas@ucdavis.edu
Alissa Kendall <i>Energy systems analysis; renewable energy efficiency, transportation energy; life cycle analysis</i>	3167 Ghausi Hall, 752-5722	amkendall@ucdavis.edu
Mauren Kinyua <i>Wastewater treatment, waste to energy, developing world systems and global health</i>	3120 Ghausi Hall	mnkinyua@ucdavis.edu
Michael J. Kleeman <i>Urban and regional air quality; heterogeneous atmospheric chemical reactions; aerosols; air pollution source characterization; parallel computing</i>	3125 Ghausi Hall, 752-8386	mjkleeman@ucdavis.edu
Sashi K. Kunnath <i>Structural dynamics; earthquake engineering; extreme loading on structures; nonlinear modeling and simulation</i>	3149 Ghausi Hall, 754-6428	skkunnath@ucdavis.edu
Bruce L. Kutter <i>Geotechnical centrifugal modeling; earthquake engineering; constitutive models for soil</i>	3103 Ghausi Hall, 752-8099	blkutter@ucdavis.edu
Frank J. Loge <i>Biological quality of point and non-point source discharges; disinfection; biological treatment; natural treatment systems; microbial ecology</i>	3163 Ghausi Hall, 754-2297	fjloge@ucdavis.edu
Jay R. Lund <i>Environment and infrastructure systems analysis; management; optimization; economics</i>	3109 Ghausi Hall, 752-5671	jrlund@ucdavis.edu
Alejandro Martinez <i>Soil-structure interfaces, novel deep foundations, soil behavior and laboratory and numerical modeling</i>	3116 Ghausi Hall	
Sabbie Miller <i>Designing sustainable infrastructure materials; bio-based composites; integration of sustainability into structural design; durability of civil engineering materials</i>	3157 Ghausi Hall	sabmil@ucdavis.edu
Mark Modera <i>Energy efficiency; heat and mass transfer properties; air flow modeling and measurement; indoor air quality</i>	Western Cooling Efficiency Center, 754-7671	mpmodera@ucdavis.edu
Veronica Morales <i>Colloid & nanoparticle fate in soils; transport through porous media; biochar engineering</i>	TBA	vermorales@ucdavis.edu
Debbie Niemeier <i>Sustainable urban design; transportation-air quality modeling; vehicle emissions modeling; environmental policy</i>	3127 Ghausi Hall, 752-8918	dniemeier@ucdavis.edu
Holly Oldroyd <i>TBA</i>	TBA	hjoldroyd@ucdavis.edu
Mark M. Rashid <i>Computational solid mechanics/inelasticity; large-deformation finite element methodology; constitutive modeling of engineering materials</i>	3123 Ghausi Hall, 752-7013	mmrashid@ucdavis.edu
S. Geoffrey Schladow <i>Lake and reservoir modeling; environmental fluid mechanics; ecosystem modeling; sediment-water column exchange processes; saline lakes</i>	3111 Ghausi Hall, 752-6932	gschladow@ucdavis.edu
Daniel Sperling <i>Energy systems; air pollution; alternative energy systems; energy policy; environmental policy; transportation planning</i>	1715 Tilia St., Room 1109, West Village 752-7434	dsperling@ucdavis.edu
Natarajan Sukumar <i>Computational solid mechanics; fracture mechanics</i>	3159 Ghausi Hall, 754-6415	nsukumar@ucdavis.edu
Anthony Wexler <i>Air pollution aerosol particles related to urban smog, human health and global warming; biomedical interests in particle effects on lungs and functional electrical stimulation of muscle</i>	2046 Bainer, 754-6558	aswexler@ucdavis.edu
Thomas M. Young <i>Environmental chemistry; water quality; remediation of contaminated soils and sediments</i>	3113 Ghausi Hall, 754-9399	tyoung@ucdavis.edu
Bassam A. Younis <i>Computational environmental fluid mechanics; turbulence simulation and modeling; transport processes</i>	3107 Ghausi Hall, 754-6417	bayounis@ucdavis.edu
H. Michael Zhang <i>Transportation systems management; traffic operations; traffic flow modeling; air pollution</i>	3145 Ghausi Hall, 754-9203	hmzhang@ucdavis.edu
Katerina Ziotopoulou <i>Geotechnical earthquake engineering, liquefaction effects, numerical modeling of soil-structure systems, laboratory testing</i>	3141 Ghausi Hall	kziotopoulou@ucdavis.edu