PHY 9A, MAT 21C; MAT 21D (MBTC) http://success.ucdavis.edu

MAT 21D (MBTC), PHY 9A all with C- or better; Pass 1 Engineering only

 \rightarrow assistance in Chem:

http://success.ucdavis.edu

PHY 9B, MAT 21D; MAT 22A (MBTC)

Placement by exam

CHE 2A w/ C- or better

ECI 3 (SS & OL)	Civil Infrastructure and Society L	V L 4 F MAT 21A (MBTC) [Fresh/Soph course - or replace with 4 units of ECI Elective								
ECI 16	Spatial Data Analysis L	2		S	Restricted to Civil and Bio Sys Eng majors					
PHYSICAL and BIOLOGICAL SCIENCES requirement: select 1 of the following courses (5 units required)										
BIS 2A	Intro to Biology D	5	F V	/ S						
GEL 50-50L	Physical Geology & Lab	3/2	Fν	/ S	High school phys & chem -reduced unit credit if GEL 1 completed -					

S

W

W S

F W S

F W

5

5

5

F W

PHY 9B*

PHY 9C

CHE 2A*

CHE 2B*

ENG 35*

Classical Physics L/D

Classical Physics L/D

General Chemistry L/D

General Chemistry L/D

Statics D

PROGRAMMING requirement: select 1 of the following courses (4 units required)										
ENG 6*	Engineering Problem Solving (Matlab) D 4	F	W	S	MAT 21A with C- or better; MAT 21B with C- or better (MBTC)					
ECS 32A*	Programming & Prob Solving (Python) D 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)										
ENG 3 (SS & OL)	Intro to Engineering Design L	4	F	W	S	Completion of Entry Level Writing Requirement				
CMN 1 (AH, SS & OL/WI	Intro to Public Speaking D	4	F	W	S					
CMN 3 (SS & WE)	Interpersonal Commun. Competence D	4	F	W	S	CMN 3Y or 3V will not satisfy communication requirement				

LOWER DIVISION ENGLISH COMPOSITION requirement: select 1 of the following courses (4 units required) (may not simultaneously fulfill GE topical breadth)										
UWP 1, 1V, or 1Y Expository Writing <i>D</i>			F	W	S	Compl. of Entry Level Writing Req.	(pass with C- or better)			
ENL 3 (English)	Introduction to Literature D	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 D	4	F	W	S	Compl. of Entry Level Writing Req.	(pass with C- or better)			
COM 2	Bks of West. Cul:Mid Ages-Enlight D	4	F	W	S	Compl. of Entry Level Writing Req.	(pass with C- or better)			
COM 3	Bks of West. Cul:Modern Crisis D	4	F	W	S	Compl. of Entry Level Writing Req.	(pass with C- or better)			
COM 4	Bks of the Contemporary World D	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 D			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 requirements, worksheets, & popular options can be found at: http://cee.engr.ucdavis.edu/ug-advising/ge/ 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						
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						
8. Have completed all transfer admission coursework and GPA requirements (3.2 GPA)	from previous institution(s) for coursework below). See https://www.ucdavis.edu/admissions/transfer/major-						

requirements-college-engineering 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: 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. Additional courses are required for the double major: CHE 2C & GEL 50 or ATM 60.

**Requirements subject to change. See http://engineering.ucdavis.edu/undergraduate/advising/ 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 uı	nits)	<u>Examp</u>	ole Sche	<u>dule</u>	Sophomore (45-89.9 units)					
Fall		Winter		Spring		11	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	CMN 1 or 3 or ENG 3	3 4	
ECI 3	4	GE Elective	<u>4</u>	CHE 2B	_5		Phy/Bio Elective	4	GE Elective	4	ECI 16	2	
GE Elective	4		13		14		ENG 6 or ECS 32A	<u>4</u>	ENG 35	4	GE Elective	4	
	16					11		17		16(17)		14	

(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 Qtr(s) Offered		ffered	Prerequisites & Enrollment Restrictions Notes					
FLUID MECHANICS: select 1 of the following courses (4 units required)										
ECI 100* ENG 103*	Fluid Mechanics for Civil/Env Eng. ι Fluid Mechanics υ	4 4	F F	W W	S	ENG 35, MAT 22B, PHY 9B all with C- or better; Pass 1 ECIV/EENV only ENG 35, MAT 22B, PHY 9B all with C- or better; Open to eng. only				
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 (SS & SL)	Engineering Economics	3		W		Upper division standing in Engineering				
ECI 114 (QL)	Probabilistic Sys. Analy. for Civ. Engrs.	4		W	S	MAT 21C w/ C- or better; Pass 1 ECIV/EENV only				
DYNAMICS or TI	HERMODYNAMICS requirement: sei	lect 1 o	f the	follo	wing two	o courses (4 units required)				
ENG 102 (VL)	Dynamics D	4	F	W	S	ENG 35, MAT 22B both with C- or better; Open to eng. only				
ENG 105 (VL)	Thermodynamics D	4	F	W	S	MAT 22B, PHY 9B all with C- or better; Open to eng. only				

Civil & Environmental Engineering (ECI) Breadth and Depth Requirement – 8 courses total											
Select 1 brea	dth course from 4 of the 5 areas (15-	17 un	its), and	2 dept	h courses from 2 of the 4 areas selected for breadth (16 units).						
	$(b) = \underline{\text{breadth course}}$ $(d) = \underline{\text{deg}}$	oth co	urse	(b/d) =	breadth or depth course, cannot be used for both						
ENVIRONMEN	T T										
(b) ECI 140A*	Env. Analysis of Aqueous Sys. L	4	F		CHE 2B w/ C- or better; ECI 40 (MBTC); Pass 1 open to env. engineering						
(b/d) ECI 140B*	Chem. Principles for Env. Eng.	4	W		CHE 2B w/ C- or better						
(b) ECI 148A*	Water Quality Management	4	not offere	d 19-20	CHE 2B w/ C- or better						
(b/d) ECI 149*	Air Pollution D	4	F		MAT 21D & 22B; CHE 2B & ECI 100 or ENG 103 both w/ C- or better						
(d) ECI 140C*	Bio. Principles for Env. Eng.	4	W		ECI 140A or ECI 140B w/ C- or better; ECI 40						
(d) ECI 140D*	Water & Wastewater Treatment Sys. Design L	4		S	ENG 103 or ECI 100; ECI 140A or 140B or 140C or 148A both $\ensuremath{w/}$ C- or better; ECI 40						
(d) ECI 150	Air Pollution Cont. Sys. Design D	4	not offe	red 19-20	ECI 149 w/ C- or better						
GEOTECHNIC											
	Soil Mechanics & Lab	4/1	W		ECI 100 or ENG 103 (MBTC); ENG 104 w/ C- or better; 171L concurrently; ECIV/EENV only						
(d) ECI 173	Foundation Design	4		S	ECI 171						
(d) ECI 175	Geotechnical Earthquake Engineering	4	F		ECI 171 w/ C- or better						
(d) ECI 179	Pavement Engineering L	4	W		ENG 104 w/ C- or better -may only count for one depth area-						
STRUCTURES			***	a	TNG 104 / G . I NATT 204						
(b) ECI 130*	Structural Analysis	4	W	S	ENG 104 w/ C- or better; MAT 22A; ECIV/EENV only						
(d) ECI 131*	Matrix Structural Analysis L	4	F		ENG 104 w/ C- or better; ENG 6						
(d) ECI 132*	Struct. Design: Metallic Elem.	4	F		ECI 130 C- or better						
(d) ECI 135*	Struct Design: Concrete Elem. L	4	W		ECI 130 C- or better; Restricted to ECIV majors						
(d) ECI 136 TRANSPORTA	Building Design L	4		S	ECI 130 C- or better or 131 C- or better; ECI 132 or 135						
(b/d) ECI 161*	Transportation System Operations <i>D</i>	4	W		MAT 21C & PHY 9A both w/ C- or better						
		4									
(b) ECI 163* (SS)	Energy/Env. Aspects of Trans.	4	not offered	19-20	ENG 106 or ECN 1A offered Fall '20 – even years only						
(b) ECI 165 (SS)	Transportation Policy	3	F		offered Fall '19 – odd years only						
(d) ECI 153	Deterministic Optimization & Design L		F		MAT 21C, 22A, programming course -may only count for depth OR math elec						
(d) ECI 179	Pavement Engineering L	4	W		ENG 104 w/ C- or better -may only count for one depth area-						
WATER RESO		2/1	E	C	ECI 100 - ENC 102 - C - h-th-m b - L rownpy						
	Engineering Hydraulics & Lab	3/1	F	S	ECI 100 or ENG 103 w/ C- or better; Pass 1 ECIV/EENV only						
(d) ECI 142	Engineering Hydrology	4	F	S	ECI 141 (MBTC); engineering only						
(d) ECI 144	Groundwater Systems Design	4			ECI 141						
(d) ECI 145	Hydraulic Structure Design L/D	4	***	S	ECI 141 W/ C- or better						
(d) ECI 146	Water Resources Simulation D	4	W	C	ECI 100 or ENG 103 w/C- or better						
(d) ECI 155 (SS)	Water Resources Engrg. Planning	4		S	ENG 106 or ECN 1A; ECI 114						

MATHEMATICAL ANALYSIS requirement: select ONE of the following four courses (4 units required)											
ECI 115	Computer Methods in Civil Eng L	4	V	V	S	ENG 6 or ECS 30 or ECS 32A w/ C- or better; MAT 22B C- or better					
ECI 153	Deterministic Optimization & Design L	4	F			MAT 21C, 22A, programming course -may only count for depth OR math elec.					
MAT 118A	Partial Diff. Eqns:Elementary Methods	4	F			MAT 21D, 22A, 22B (extensive problem solving)					

Senior Design	Senior Design Experience (SDE) Requirement: (8 units required) courses must be taken consecutively & must be in final year of study										
ECI 193A (WE)	ECI Senior Design L	4	W	(ECI 140D) or (ECI 171/ 171L) or (ECI 132 or ECI 135) or (ECI 161 or 163) or (ECI 141/141L); and one other ECI Depth course, all w/ C- or better							
ECI 193B (WE)	ECI Senior Design L	4	S	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

^{* =} 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 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 198² Group Study (with Faculty) F W S 1-5 Upper division standing → ECI 199² Research (with Faculty) 1-5 F W S Upper division standing

²Unit 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 advisor to receive a CRN#. The form is available on our website: http://cee.engr.ucdavis.edu/forms/.

ADDITIONAL ECI	ADDITIONAL ECI COURSES (can be used as ECI electives):										
ECI 123(SS, ACGH & DD) Urban Systems & Sustainability			S	Upper division standing; Pass 1 ECIV/EENV only							
ECI 125	Building Energy Performance	4	not offered 19-20	Upper division standing in Engineering							
ECI 137(SS & ACGH)	Construction Prin. & Proj. Mgmt. L	4	F	Upper division standing in Engineering; ENG 106 recommended							
ECI 138	Earthquake Loads on Structures D	4	F	ECI 130 C- or better or 131 C- or better							
ECI 139	Advanced Structural Mechanics	4	not offered 19-20	ENG 104 w/ C- or better							
ECI 143 (SS)	Green Engr. Des. & Sustainability D	4	not offered 19-20	Upper division standing; Pass 1 ECIV/EENV only							

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 at: http://writing.ucdavis.edu/compexam Advanced Composition D **UWP 101** One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better) **UWP 102E** Writing in the Disciplines: Engineering DF W One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better) **UWP 102G** One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better) Writing in the Disciplines: Environmental **D** 4 **UWP 104A** Writing in the Professions: Business D F W One course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better) **UWP 104E** F W Writing in the Professions: Science DOne course: UWP 1, 1V, 1Y, ENL 3, COM 1, 2, 3, 4, NAS 5; Upper div. standing (pass with C- or better) **UWP 104T** Writing in the Professions: $\overline{\text{Technical}} D$ W

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	uni	(S)	<u>Examp</u>	ne Sci	<u>reaute</u>	Sen	Senior (135 or more units)				
Fall		Winter		Spring		1.1	Fall		Winter		Spring		
ENG 103/ECI 10	00 4	ECI Breadth	4	ECI Breadth	4		ECI Depth	4	ECI 193A	4	ECI 193B	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	GE Elective	4		ECI Elective	4	ECI Depth	4	ECI Elective	<u>4</u>	
GE Elective	4	Math Anlys. Elect	4	Upper Div Cor	np <u>0-4</u>		ENG 102 or 105	<u>4</u>	ECI Elective	<u>4</u>		12	
	16	ECI 114	4		12-16			16		16			
			16			1 1							

Engage La Calandala

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 , 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: 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://icc.ucdavis.edu
Undergrad Research Center: http://undergraduateresearch.ucdavis.edu	FE Exam: http://ncees.org/engineering/fe/
Study Abroad: http://studyabroad.ucdavis.edu/	My Degree: https://mydegree.ucdavis.edu

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

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

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.

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

¹A 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.

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