



UCI Samueli
School of Engineering

Academic Course Planning Workshop

Hosted by the Undergraduate Engineering Student Affairs Office
and Peer Academic Advisors.

★ DEGREEWORKS

reg.uci.edu/access/student/welcome/

Click on "DegreeWorks" tab

DegreeWorks has list of all classes and requirements needed to graduate

Major in Mechanical Engineering

*** Up to 4 units of 199 or H199 may be applied to the major in Mechanical Engineering. ***

Basic Science: Chem 1A or ENGR 1A

Basic Science: Chem 1LE

MATH 2A, 2B

MATH 2D

MATH 2E

MATH 3A

MATH 3D

Physics 7C, 7LC

Physics 7D, 7LD

Physics 7E

Physics 52A

1 Add'l GE II from Schools of Physical Sci, Bio Sci, or I&C SCI

Engr 54

EngrMAE 10

EngrMAE 30

EngrMAE 52

MAE 60 or EECS 70A

Resources

★ SCHEDULE OF CLASSES

reg.uci.edu/perl/WebSoc

Best when planning courses for next quarter

Filters: Term, GE Category, Department, etc.

Able to see previous course offerings

Engineering, Mechanical and Aerospace																
EngrMAE 10 INTRO ENGR COMP (Prerequisites)																
REQUIRED: Laptop running MATLAB R2019a or newer. Consult the ENGRMAE 10 Canvas course website for details.																
Code	Type	Sec	Units	Instructor	Time	Place	Final	Max	Enr	WL	Req	Nor	Rstr	Textbooks	Web	Status
17900	Lec	A	4	BUSWELL, N. DONG, A. ZHAO, C.	TuTh 2:00-3:20p	VRTL REMOTE	Thu, Jun 10, 1:30-3:30pm	300	31	n/a	43	0	A and N	Bookstore		OPEN
17901	Dis	A1	0	DONG, A. ZHAO, C. BUSWELL, N.	M 10:00-10:50	VRTL REMOTE		50	12	n/a	11	0		Bookstore		OPEN
17902	Dis	A2	0	DONG, A. ZHAO, C. BUSWELL, N.	M 11:00-11:50	VRTL REMOTE		50	8	n/a	8	0		Bookstore		OPEN
17903	Dis	A3	0	DONG, A. ZHAO, C. BUSWELL, N.	Th 10:00-10:50	VRTL REMOTE		50	2	n/a	3	0		Bookstore		OPEN
17905	Dis	A4	0	DONG, A. ZHAO, C. BUSWELL, N.	Th 11:00-11:50	VRTL REMOTE		50	3	n/a	6	0		Bookstore		OPEN
17907	Dis	A5	0	DONG, A. ZHAO, C. BUSWELL, N.	Th 12:00-12:50p	VRTL REMOTE		50	6	n/a	6	0		Bookstore		OPEN
17910	Dis	A6	0	DONG, A. ZHAO, C. BUSWELL, N.	TBA	TBA		0	0	n/a	0	0		Bookstore		FULL

Engineering, Mechanical and Aerospace																
EngrMAE 52 COMPUTER AIDED DESN																
REQUIRED: Laptop running Solidworks 2019-2020 Student Edition or newer. Consult the ENGRMAE 52 Canvas course website for details.																
Code	Type	Sec	Units	Instructor	Time	Place	Final	Max	Enr	WL	Req	Nor	Rstr	Textbooks	Web	Status
17915	Lec	A	4	DIMAS, D. SLEDGE, C. STAFF	W 7:00-9:50p	VRTL REMOTE	Wed, Jun 9, 7:00-9:00pm	175	70	n/a	115	0	L	Bookstore		OPEN
17916	Lab	1	0	SLEDGE, C. STAFF DIMAS, D.	W 11:00-12:50p	VRTL REMOTE		50	21	n/a	23	0		Bookstore		OPEN
17917	Lab	2	0	SLEDGE, C. STAFF DIMAS, D.	W 1:00-2:50p	VRTL REMOTE		50	29	n/a	34	0		Bookstore		OPEN
17918	Lab	3	0	SLEDGE, C.	Th 7:00-8:50p	VRTL REMOTE		50	14	n/a	14	0		Bookstore		OPEN

CATALOGUE

catalogue.uci.edu

Go to "School of Engineering"

- > Majors, Minors, and Graduate Programs
- > select your major
- > Requirements / Sample Program

CHANGE OF MAJOR

changeofmajor.uci.edu/engineering/

GPA, Courses, & Other Requirements
What-If? Feature on DegreeWorks...
Shows required courses with changed major or added minor.

Engineering Topics Courses:	
Students must complete a minimum of 24 units of engineering design.	
Core Courses:	
ENGR 54	Principles of Materials Science and Engineering
ENGRMAE 10	Introduction to Engineering Computations
ENGRMAE 30	Statics
ENGRMAE 52	Computer-Aided Design
ENGRMAE 60 or EECS 70A	Electric Circuits Network Analysis I
ENGRMAE 80	Dynamics
ENGRMAE 91	Introduction to Thermodynamics

Mechanical Engineering
Description
2.70 GPA
<ul style="list-style-type: none">• Minimum 3.0 overall GPA in all courses required for the major with no grade below a 'C'• A maximum of 6 units of repeats in courses required for the major• Completion of the following courses: ENGRMAE 10, Math 2A-B-D, Physics 7C-D, Physics 7LC-LD, Chem 1A, Chem 1LE

★ TEACHING PLAN

tinyurl.com/EngineeringTeachingPlan

Shows course offerings over entire year

Allows for longer term planning

Next year's released spring quarter

Course	2020-2021			
	Summer 2020	Fall 2020	Winter 2021	Spring 2021
ENGRMAE 10	SSII - Sameh A Eisa	Sameh A Eisa		Natascha Buswell
ENGRMAE 30	SSI (online) - Lizhi Sun	Lizhi Sun	Mo Li	
ENGRMAE 52	SS10WK - Zahra Noroozi	Dave Dimas		Dave Dimas
ENGRMAE 57				
ENGRMAE 60		David Copp	Manuel Gamero Castano	REMOVED 2020.08.18
ENGRMAE 80	SSII (online) - Mashid Fardadi	Solmaz Sajjadi Kia	Faryar Jabbari	David Copp
ENGRMAE 91		Lawrence Kulinsky		Rayomand Gundevia
ENGRMAE 93		STAFF	STAFF	STAFF
ENGRMAE 106			David Copp	David J. Reinkensmeyer
ENGRMAE 107	SS10WK - Marco Maggia	Yun Wang		Marco Maggia
ENGRMAE 108		Timothy Koster, Amirsaman Rezaei		Amirsaman Rezaei

★ OTHER

Course Offerings:

Chemistry:

chem.uci.edu/Course-Offerings

Physics:

physics.uci.edu/undergrad-program/course-info

Math:

math.uci.edu/undergrad-courses/plan-math-course-offerings

Engineering UGSA Website:

undergraduate.eng.uci.edu/resources-0
undergraduate.eng.uci.edu/sites/default/files/POS%204.0%20with%20Links.pdf



General Tips



Keep prerequisites in mind, especially prior to significant courses such as Senior Design.



Ensure each course is offered for the quarter you plan to enroll in them. (Check Teaching Plan)



Use the sample program on the catalogue to plan, prioritize core classes, especially those that are prerequisites to other core classes.



If interested in adding a minor, keep in mind it usually means about 7 additional courses



Summer Session is an option to make up certain classes or even get ahead.

summer.uci.edu/courses/



Schedule courses with multiple options (e.g. technical electives / GE's) around core classes

Demonstration - What if Computer Engineering?

Major in Computer Engineering		
**** Up to 6 units of 199 or H199 may be applied to the major in Computer Engineering. ****		
<input type="checkbox"/> EECS 55	Still Needed: 1 Class in EECS 55	
<input type="checkbox"/> EECS 70LA	Still Needed: 1 Class in EECS 70LA	
<input type="checkbox"/> EECS 145	Still Needed: 1 Class in EECS 145	
<input checked="" type="checkbox"/> I&CSci 6D	I&CSCI 6D	DISCRET MATH FOR CS
<input checked="" type="checkbox"/> Math 2A	MATH 2A Satisfied by	CALCULUS Calculus AP Exam BC
<input checked="" type="checkbox"/> Math 2B	MATH 2B Satisfied by	CALCULUS Calculus AP Exam BC
<input checked="" type="checkbox"/> Math 2D	MATH 2D	MULTIVAR CALCULUS
<input checked="" type="checkbox"/> Math 3A	MATH 3A	INTRO LINEAR ALGBRA
<input checked="" type="checkbox"/> Math 3D	MATH 3D	ELEM DIFF EQUATIONS
<input checked="" type="checkbox"/> Physics 7C, 7LC	PHYSICS 7C PHYSICS 7LC	CLASSICAL PHYSICS CLASS PHYSICS LAB
<input checked="" type="checkbox"/> Physics 7D, 7LD	PHYSICS 7D PHYSICS 7LD	CLASSICAL PHYSICS CLASS PHYSICS LAB
<input type="checkbox"/> Physics 7E	Still Needed: 1 Class in PHYSICS 7E	
<input checked="" type="checkbox"/> 1 Add'l math or basic science elective	I&CSCI 6B	BOOLEAN ALG & LOGI
<input type="checkbox"/> Core: EECS 12	Still Needed: 1 Class in EECS 12	
<input type="checkbox"/> Core: EECS 20	Still Needed: 1 Class in EECS 20	
<input type="checkbox"/> Core: EECS 22 & 22L	Still Needed: 2 Classes in EECS 22 , 22L	
<input checked="" type="checkbox"/> Core: EECS 31, 31L	EECS 31 EECS 31L	INTRO DIGITAL SYST INTRO DIG LOGIC LAB
<input type="checkbox"/> Core: EECS 40	Still Needed: 1 Class in EECS 40	
<input checked="" type="checkbox"/> Core: EECS 50	EECS 50	DISCR-TM SIGS/SYSTEM
<input checked="" type="checkbox"/> Core: EECS 70A	EECS 70A	NETWORK ANALYSIS I
<input type="checkbox"/> Core: EECS 70B, 70LB	Still Needed: 2 Classes in EECS 70B , 70LB	
<input type="checkbox"/> Core: EECS 111	Still Needed: 1 Class in EECS 111	
<input checked="" type="checkbox"/> Core: EECS 112, 112L	EECS 112 EECS 112L	ORG OF DIGITAL COMP ORG DIGITL COMP LAB
<input type="checkbox"/> Core: EECS 113	Still Needed: 1 Class in EECS 113	
<input type="checkbox"/> Core: EECS 114	Still Needed: 1 Class in EECS 114	
<input type="checkbox"/> Core: EECS 118	Still Needed: 1 Class in EECS 118	
<input type="checkbox"/> Core: EECS 119	Still Needed: 1 Class in EECS 119	
<input type="checkbox"/> Core: EECS 148	Still Needed: 1 Class in EECS 148	
<input type="checkbox"/> Core: EECS 159A	Still Needed: 1 Class in EECS 159A	
<input type="checkbox"/> Core: EECS 159B	Still Needed: 1 Class in EECS 159B	
<input type="checkbox"/> Core: EECS 170A, 170LA	Still Needed: 2 Classes in EECS 170A , 170LA	
<input type="checkbox"/> Core: EECS 170B, 170LB	Still Needed: 2 Classes in EECS 170B , 170LB	
<input type="checkbox"/> 3 Engineering elective courses	Still Needed: Choose from 2 of the following:	
<input checked="" type="checkbox"/> Compsci 142A	COMPSCI 142A	COMPILERS&INTPRETER
<input type="checkbox"/> EECS 101	(1 Class in EECS 101) or	
<input type="checkbox"/> EECS 116	(1 Class in EECS 116) or	
<input type="checkbox"/> EECS 117	(1 Class in EECS 117) or	
<input type="checkbox"/> EECS 141A	(1 Class in EECS 141A) or	
<input type="checkbox"/> EECS 141B	(1 Class in EECS 141B) or	
<input type="checkbox"/> EECS 150	(1 Class in EECS 150) or	
<input type="checkbox"/> EECS 152A	(1 Class in EECS 152A) or	
<input type="checkbox"/> EECS 152B	(1 Class in EECS 152B) or	
<input type="checkbox"/> EECS 199	(3 Credits in EECS 199) or	
<input type="checkbox"/> EECS H199	(3 Credits in EECS H199) or	
<input type="checkbox"/> Engr 7A and Engr 7B	(2 Classes in ENGR 7A , 7B)	
<input type="checkbox"/> Engr 190W	Still Needed: 1 Class in ENGR 190W	
<input type="checkbox"/> 26 Design Units Required	Still Needed: 26 Design Units	

In addition to 1 GE Category IV, 1 GE Category VII

Q & A