

Transfer Guide

Univ. of California, Berkeley - Lower Division Major Preparation

It is not expected that transfer students to this major will have full completion of all G.E. requirements. Students are most competitive and likely to succeed in the engineering majors when completing the math, science, and major requirements shown in the grid below. IGETC is not recommended for engineering majors. *Students are strongly encouraged to meet with a Cabrillo counselor to prepare an individual education plan.* Information contained here is subject to change. User should verify using www.assist.org.

	Physics	Chemistry	Calculus/Diff. Eq./Lin Alg.	Intro to Engr	Statics	Comp Prog.	Electrical Circuits	Materials	Graphics
Bioengineering ¹	4AB	CHEM 1A, 12A, 12AL, 12B, 12BL	MATH 5ABC, 6, 7	ENGR 5, 10		Note ²	ENGR 15 ⁸	ENGR 45	
ChemE ¹	4ABCD	CHEM 1A,B, 12A, 12AL 12B, 12BL ³	MATH 5ABC, 6, 7			Note ²	ENGR 15	ENGR 45	
ChemE & MatSc	4ABCD	CHEM 1A,B, 12A, 12AL 12B, 12BL ³	MATH 5ABC, 6, 7			Note ²	ENGR 15	ENGR 45	
ChemE & NucE	4ABCD	CHEM 1A, B	MATH 5ABC, 6, 7			Note ²	ENGR 15	ENGR 45	
Civil ⁷	4ABCD	CHEM 1A, B	MATH 5ABC, 6, 7		NEC	Note ²		NEC	NEC
EECS-Mat Sci	4ABCD	CHEM 1A	MATH 5ABC, 6, 7			CS 24 ¹⁰ Note ²	ENGR 15 ⁸	ENGR 45	
EECS-Nucl Engr	4ABCD	CHEM 1A	MATH 5ABC, 6, 7	ENGR 5, 10		Note ²	ENGR 15 ⁸ Note ¹¹	ENGR 45	
EE&CS ^{4 9}	4AB		MATH 5ABC, 6, 7			CS 24	ENGR 15 ⁸		
Energy ^{4 12}	4AB	CHEM 1A	MATH 5ABC, 6, 7		NEC	Note ²	ENGR 15 ⁸	ENGR 45	
Environmental ^{4 5}	4AB	CHEM 1A	MATH 5ABC, 6, 7		NEC	Note ²			
Industrial & OPR ⁶	4AB	CHEM 1A	MATH 5ABC, 6, 7	ENGR 5,10		Note ² CS 11 or 20J	ENGR 15 ⁸	ENGR 45	ENGR 25, 26
Mat Sci & Engr	4ABCD	CHEM 1A,B	MATH 5ABC, 6, 7	ENGR 5,10	NEC	Note ²		ENGR 45	
Mat Sci & Engr(ME)	4AB	CHEM 1A	MATH 5ABC, 6, 7	ENGR 5,10	NEC	Note ²		ENGR 45	ENGR 25, 26
Mat Sci & Engr(Nuc)	4ABCD	CHEM 1A	MATH 5ABC, 6, 7	ENGR 5,10	NEC	Note ²	ENGR 15 ⁸	ENGR 45	
Mechanical ¹³	4AB	CHEM 1A	MATH 5ABC, 6, 7	ENGR 5,10	NEC	Note ²			ENGR 25, 26
Mech/Nuc Engr ¹³	4ABCD	CHEM 1A	MATH 5ABC, 6, 7	ENGR 5,10	NEC	Note ²	ENGR 15 ⁸		ENGR 25, 26
Nuclear	4ABCD	CHEM 1A	MATH 5ABC, 6, 7	ENGR 5,10		Note ²	ENGR 15 ⁸	ENGR 45	
Computer Science ⁹			MATH 5AB, 6, 7			CS 24 ¹⁰			
Physics	4ABCD	CHEM 1AB	MATH 5AB, 6, 7			CS 11 or 12J			
Math			MATH 5ABC, 6, 7, 13, & 23 (or CS23)						

1. Must take Bio 1A, 1B
2. Must take Matlab programming course
3. Must take ACS Organic Chem Exam after completing Chem 12A and 12B to get credit for upper division Organic Chem.

4. Must take additional science course(s) from elective list (see www.assist.org)
5. Must take Bio 1C, 11C
6. Only 9 unit of the Engineering listed in grid for this major is required.
7. Civils need (Chem 1B) or (Phys 4C and Phys 4D). Civils need Bio 1C and 11C
8. To satisfy Electric Circuits, bridge course ENGIN 47 at UCB is also required.
9. Students need Programming, Data Structures, and Discrete Math coursework however there are no courses in these areas articulated between UCB and Cabrillo. See assist.org for details. Artic. Pending.
10. Students must also take bridge course, COMPSCI 47C at UCB to satisfy this requirement.
11. This major also requires Data Structures and a Systems and Signals course. There are no articulated courses in these areas between UCB and Cabrillo. Artic. Pending
12. Students need Engineering Geology, Signals and Systems, and Thermodynamics.
13. Students also need Thermodynamics.

Additional engineering majors: Engineering Mathematics and Statistics, Engineering Physics

General Education

Other Admission Requirements:

- 60 UC Transferable Units
- ENGL 1A
- ENGL 1B
- Math course (satisfied with Math5A)
- One course from (Arts & Humanities) or (Social and Behavioral Sciences)

GE Notes:

The following GE courses represent a starting point in planning general education. These are courses that will help meet minimum admission and general education requirements for most transfer institutions, but may not meet all admission requirements. NOTE: English 2 (as well as other GE courses) may also be required, depending on your specific goals. IMPORTANT: You must meet with a counselor to confirm the needed and most appropriate GE courses.

- Comm 1
- English 1A/1AH/1AMC/1AMCH
- English 1B
- US History: Hist 14, 15, 17A, 17AH, 17B, 17BH, 18A, 19B, 21A, 21AH, 21B, 21BH, 29A, 29B
- Political Science 1 or 5

See a Cabrillo Counselor regarding other GE requirements needed for UC graduation.

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Possible Articulation Requests:

UC Berkeley Class	Cabrillo Class
CompSci 61B (Data Structures)	Any course/s approved as comparable to COMPSCI 61B must include coverage of object-oriented programming, hashing, heaps, priority queues and graphs, together with at least one programming assignment of 1000 or more lines of code. If needed, any of this material may be acquired by taking a bridge course, COMPSCI 47B, at Berkeley. We should have partial or full articulation with CS 21
CompSci 70 (Discrete Math and Probability Theory)	Math 13 and Math 23 (already Artic to Math 55 at UCB)
CompSci 61A	CS 19 or 20J + UCB Bridge Course
Engin 7 (Matlab)	New Matlab programming course for Engrs.

