

AEROSPACE ENGINEERING CURRICULUM FLOWCHART

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
MATH 1A 4	MATH 1B 4	MATH 53 4	MATH 54 OR PHYSICS 89 (4)	CONTROLS ^{2,3} 3 OR 4	ELECTRONICS ⁵ 4	MEC ENG 103 4	AERO ENG 100 4
MAT SCI 45 + 45L 4	PHYSICS 7A 4	PHYSICS 7B 4	MEC ENG C85 3	DYNAMICS ^{2,4} 3	STAT & DS ⁶ 3 OR 4	TECH ELECS 3 OR 4	TECH ELECS 6 TO 8
SCIENCE ELEC 3 TO 5	ENGIN 7 OR COMPSCI 61A ¹ (4)		MEC ENG 40 OR ENGIN 40 ² (3 OR 4)	MEC ENG 106 3	TECH ELECS 3 OR 4	MEC ENG 163 ² 3	FREE ELECS 2 TO 4
AERO ENG 1 1	AERO ENG 2 1	AERO ENG 10 4				FREE ELECS 2 TO 4	
R&C A 4 OR 5	R&C B 4	H/SS 3 OR 4	H/SS 3 OR 4	H/SS UPPER DIV 3 OR 4	H/SS UPPER DIV 3 OR 4		

PROGRAMMING NOTES (NOTE 1)

Students who choose to take COMPSCI 61A can take it in the fall and MATSCI 45 in the spring. Please note that COMPSCI 61A is an impacted course and AE students are not likely to get in.

TECHNICAL ELECTIVES

Please see this page for details:
<https://engineering.berkeley.edu/students/undergraduate-guide/degree-requirements/major-programs/aerospace-engineering/#f5>

SCIENCE ELECTIVE COURSE OPTIONS

Choose one of the following: ASTRON 7A, C10; BIOLOGY 1A+1AL, 1B; CHEM 1A/1AL, 1B, 3A/3AL, 3B/3BL, 4A, 4B; MCELLBI 32; PHYSICS 7C. Some of these courses require prerequisites and would therefore be more appropriately taken in a later semester.

¹Students who plan to take MECENG 40 for their Thermodynamics requirement in sophomore year will need to take CHEM 1A/1AL to fulfill their Science Elective, because CHEM 1A/1AL are prerequisites for MECENG 40.

FALL ONLY COURSES (NOTE 2)

²Please note that these are fall semester-only courses: ENGIN 40, MEC ENG 132, EECS 149, MEC ENG 163, and CIV ENG 126.

CONTROLS COURSE OPTIONS (NOTE 3)

ELENG C128/MEC ENG C134
MEC ENG 132

DYNAMICS COURSE OPTIONS (NOTE 4)

CIV ENG 126
MEC ENG 104

ELECTRONICS OPTIONS (NOTE 5)

EECS 149
ELENG 120
MEC ENG 100

STATISTICS & DATA SCIENCE OPTIONS (NOTE 6)

CIV ENG 93
ENGIN 178
DATA/COMPSCI/STAT C100*

The enrollment system enforces prerequisites for [DATA/COMPSCI/STAT C100](#); therefore, students who have not completed C8 will be unable to enroll in the course.

AEROSPACE ENGINEERING CURRICULUM FLOWCHART

COURSE PREREQUISITES COURSE SEQUENCING MATTERS!

AERO ENG 10	MATH 1A; MATH 1B; PHYSICS 7A; and COMPSCI 61A or ENGIN 7; Co-Requisite: MATH 53.
AERO ENG 100	TBA
CIV ENG 93	ENGIN 7 or COMPSCI C8 / INFO C8 / STAT C8. Student should consult instructor prior to enrolling
CIV ENG 126	CIV ENG C30 / MEC ENG C85 and ENGIN 7; or consent of instructor
COMPSCI 61A	MATH 1A (may be taken concurrently); programming exp. equivalent to that gained from a score of 3 or above on the AP CS A exam
DATA/CS/STAT C100	COMPSCI C8 / DATA C8 / INFO C8 / STAT C8 with a C- or better, or Pass; and COMPSCI 61A, COMPSCI/DATA C88C, or ENGIN 7 with a C- or better, or Pass; Corequisite: MATH 54, 56 or EECS 16A (C- or better, or Pass, required if completed prior to Data C100)
EE C128/ME C134	EECS 16A or MEC ENG 100; MEC ENG 132 or EL ENG 120
EECS 149	COMPSCI 61C; COMPSCI 70; EECS 16A; and EECS 16B; or permission of instructor
ELENG 120	EECS 16A and EECS 16B; or <i>MEC ENG 100 (which covers the similar topics to 16A and 16B)</i>
ENGIN 7	MATH 1B (may be taken concurrently)
ENGIN 40	PHYSICS 7B and MATH 54. CHEM 1B recommended
ENGIN 178	ENGIN 7, MATH 1A, MATH 1B MATH 53, and MATH 54 (may be taken concurrently)
MAT SCI 45	Students should have completed high school AP or honors chemistry and physics
MATH 1A	3.5 years of high school math, including trigonometry and analytic geometry. Students with HS exam credits (such as AP credit) should consider choosing a course more advanced than 1A
MATH 1B	MATH 1A or MATH N1A
MATH 53	MATH 1B or MATH N1B
MATH 54	MATH 1B, MATH N1B, MATH 10B, or MATH N10B
MEC ENG 40	CHEM 1A, ENGIN 7, MATH 1B, and PHYSICS 7B
MEC ENG C85	MATH 53; MATH 54 (may be taken concurrently); Physics 7A
MEC ENG 100	ENGIN 7, COMPSCI 10, COMPSCI 61A, COMPSCI C8, or equivalent background in computer programing; MATH 1A; PHYSICS 7A.
MEC ENG 103	MEC ENG 40; MEC ENG C85 / CIV ENG C30; MEC ENG 100; MEC ENG 106 (can be taken concurrently), and MEC ENG 109 (can be taken concurrently)
MEC ENG 104	MEC ENG C85, and one of ENGIN 7 or COMPSCI 61A
MEC ENG 106	MEC ENG C85 / CIV ENG C30 and MEC ENG 104 (104 may be taken concurrently)
MEC ENG 132	MATH 53, MATH 54, PHYSICS 7A, and PHYSICS 7B
MEC ENG 163	MEC ENG 40, MEC ENG 106
PHYSICS 7A	High school physics; MATH 1A; MATH 1B (which may be taken concurrently)
PHYSICS 7B	PHYSICS 7A; MATH 1A; MATH 1B; MATH 53 (may be taken concurrently)
PHYSICS 89	MATH 53; PHYSICS 5A or PHYSICS 7A (can be taken concurrently); or instructor's consent

Please note that the most current prerequisite information can always be found in the UC Berkeley Course Catalog: <https://guide.berkeley.edu/courses/>.