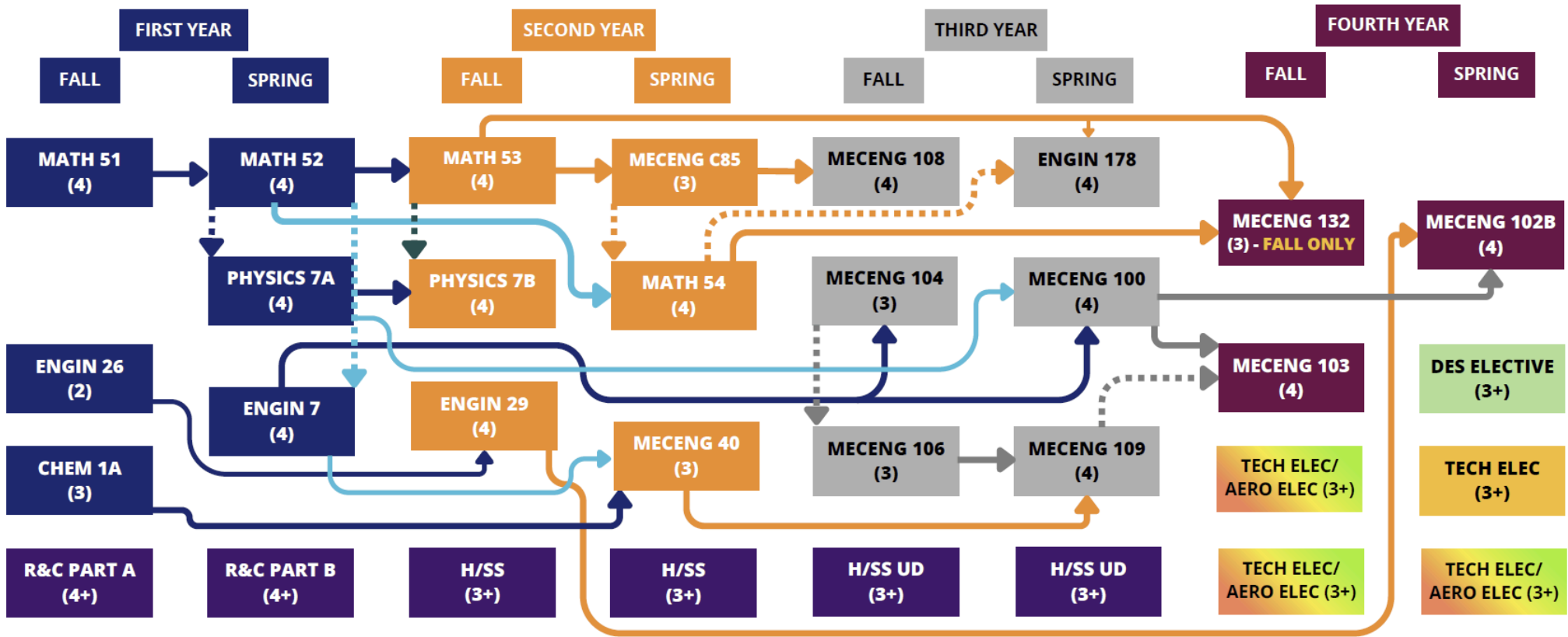


MECHANICAL ENGINEERING CURRICULUM FLOWCHART



GENERAL NOTES	TECHNICAL ELECTIVE NOTES	LOWER DIV OPTIONS	DESIGN COURSE OPTIONS	QUANTITATIVE SCIENCE (QS) OPTIONS
<ul style="list-style-type: none"> If prereqs are met, students are encouraged to take ENGIN 7 in frosh fall. MATH 53 & 54 must be completed before taking any upper div ME course. Please be aware that though courses may not be listed as official prereqs, upper div courses are taught with the expectation that students have taken the lower div courses. <p> = Prereq = Coreq </p>	<ul style="list-style-type: none"> 15 units of tech elective are required. 9 of the 15 must be ME-sponsored. 1 Course must be from the Design list 1 Course must be from the QS list. 12 units must be upper div. A lower div course can count for up to 3 units but a lower div course is not required. Up to 6 of the 15 units may be taken from outside the dept; the rest must be ME-sponsored. MECENG 191K is not a tech course. It is an H/SS. AEROENG Concentration notes are on page 2. <p>Course options can be found here: https://me.berkeley.edu/undergraduate/technical-electives/ </p>	<ul style="list-style-type: none"> ASTRO 7A, 7B BIOENG 10 BIOLOGY 1A & 1AL, 1B CHEM 1B, 3A*, 3B*, 4B CIV ENG 11, 60, 70, 93 COMPSCI C8, 61A, 61B, 61C, 70 DESINV 15, 90E EPS 50, N82 ELENG 64 ENGIN 11 INTEG BI 32* MATH 55 MATSCI 45* MCELLBI 32 PHYSICS 7C STAT 20, 21 <p>*Lab section not required.</p>	<p>Courses below are ME-sponsored:</p> <ul style="list-style-type: none"> ENGIN128; MECENG 101, 110, C117, 118, 119, 130, 133, C134, 135, 139, 146, 151, 165, C176, C178, 179 <p>More options are available here: https://me.berkeley.edu/undergraduate/technical-electives/#design </p>	<p>This requirement seeks to endow students with QS skills to complement the intensive hands-on courses required in the upper division. All of the courses below are considered ME-sponsored.</p> <ul style="list-style-type: none"> ENGIN 117, 150, 177 MECENG C106A, 120, 127, 131, 136, C134, 139, 163, C180, 193B <p>Non-ME-sponsored courses can be found at: https://me.berkeley.edu/undergraduate/technical-electives/#quantsci </p>

Prerequisites - Course Sequencing Matters!

Subject	Crs #	Prerequisite(s)
CHEM	1A	HS Chemistry recommended
ENGIN	26	None
ENGIN	29	ENGIN 26 or equivalent experience in 3-dimensional solid modeling (e.g. Solidworks, Fusion 360) is recommended.
ENGIN	178	ENGIN 7; MATH 51; MATH 51; MATH 53; and MATH 54 (may be taken concurrently)
PHYSICS	7A	HS physics; MATH 51; MATH 52 (may be taken concurrently)
PHYSICS	7B	PHYSICS 7A; MATH 51; MATH 52; and MATH 53 (may be taken concurrently)
MATH	51	3.5 years of HS MATH, including trigonometry and analytic geometry. Students with HS exam credits (such as AP credit) should consider choosing a course more advanced than 51.
MATH	52	MATH 51
MATH	53	MATH 52
MATH	54	MATH 52
MECENG	40	CHEM 1A; ENGIN 7; MATH 52; and PHYSICS 7B
MECENG	100	ENGIN 7; COMPSCI 10; COMPSCI 61A; COMPSCI C8; MATH 51; and PHYSICS 7A
MECENG	102B	ENGIN 26; ENGIN 29; and EENG 66 or MECENG 100. Please note that junior transfer admits are exempt from ENGIN 26.
MECENG	103	MECENG C85, MECENG 40, MECENG 100; MECENG 106 (may be taken concurrently); and MECENG 109 (may be taken concurrently)
MECENG	104	MECENG C85; and ENGIN 7 or COMPSCI 61A
MECENG	106	MECENG C85 / CIV ENG C30; and MECENG 104 (may be taken concurrently)
MECENG	108	MECENG C85 / CIV ENG C30
MECENG	109	MECENG 40; and MECENG 106
MECENG	132	MATH 53; MATH 54; PHYSICS 7A; and PHYSICS 7B
MECENG	C85	MATH 53; MATH 54 (may be taken concurrently); and PHYSICS 7A

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

AEROSPACE ENGINEERING CONCENTRATION TECHNICAL ELECTIVE REQUIREMENTS

- MECENG 163 or MECENG/AEROENG C162: Aerodynamics
- MECENG 136: Intro to Control of UAVs, satisfies QS Requirement
- MECENG 127: MECENG Composite Materials

The Aerospace Minor requires additional coursework. Please see this page for details: <https://aero.berkeley.edu/aerospace-engineering-minor/>