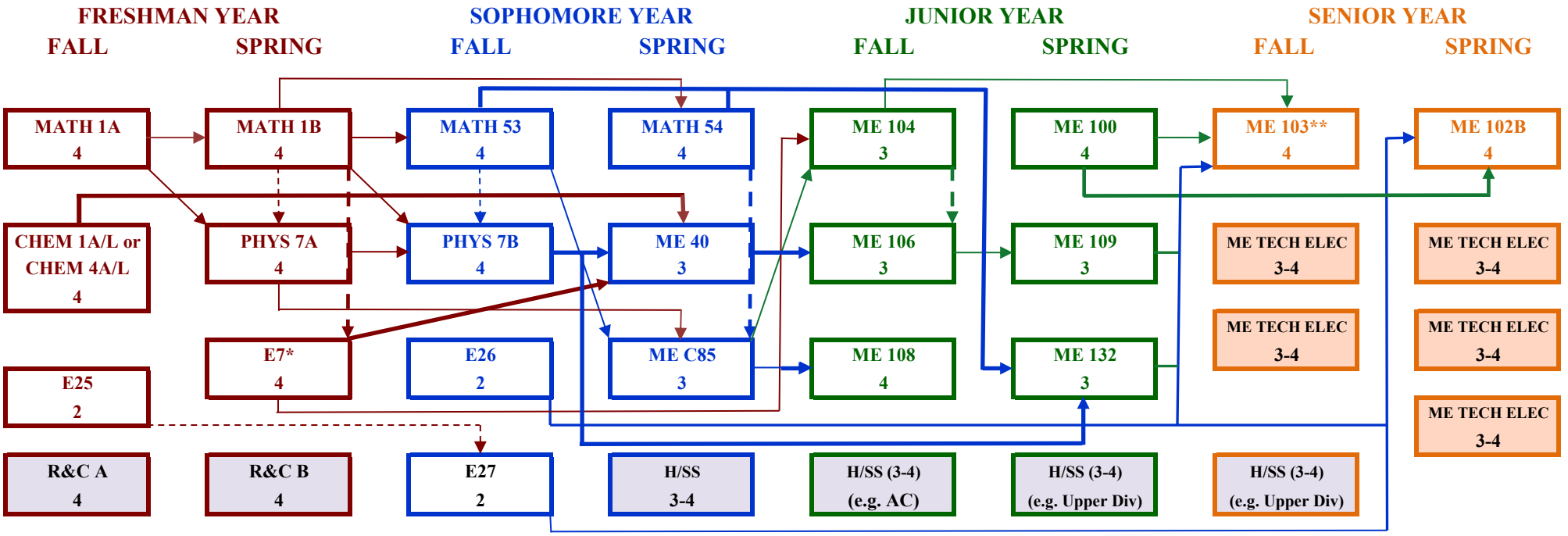
Mechanical Engineering Undergraduate Curriculum



GENERAL NOTES

- If prereqs are met, students are encouraged to take E7 in Freshman 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 you have taken lower div courses.
- **Planned

COURSE # # OF UNITS

= Prereq

= Prereq or Co-Req

GENERAL TECHNICAL ELECTIVE NOTES

- 15 Units of tech elective are required.
- 9 of 15 units must be ME-sponsored.
- 1 Course must be from the Design List.
- 1 Course must be from the QS list.
- Only 3 units of the 15 can be from lower div courses. A lower div tech is not required.
- Up to 6 of the 15 units may be taken from outside the dept; the rest must be ME-sponsored.
- ME 191K is not a technical course; it is an H/SS.
- For a list of possible courses, please see http://www.me.berkeley.edu/undergraduate/cour

LOWER DIV OPTIONS

Astro 7A, 7B
BioE 10
Bio 1A & 1AL, 1B
Chem 1B, 3A*, 3B*, 4B
Civ Eng 11, 60, 70, 93
CS C8, 61A, 61B, 61C, 70
Des Inv 15, 90E
EPS 50
EE 16B, 20
ENG 11
ENG 40
Math 55
MSE 45*
MCB 32*
Physics 7C
Stat 20, 21
**Lab section not required.*

DESIGN COURSES

All of the courses below are considered ME-Sponsored.

ENG 128
ME 101
ME 110
ME C117
ME 119
ME 130
ME 135
ME 146
ME 165
ME C176
ME C178
ME 179

QUANTITATIVE SCIENCE (QS)

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.

ENG 117
ENG 150
ENG 177
ME 120
ME 136
ME C180

Additional courses outside MechE can be found at https://www.me.berkeley.edu/undergraduate/course-information/undergraduate-technical-electives#quantsci

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Course	Prereqs
CHEM 1A	High school chemistry recommended
ENG 25	-
ENG 26	-
ENG 27	ENG 25 (co-requisite)
ENG 7	MATH 1B (co-requisite)
ME 100	ENG 7 or CS 10 or equivalent background in computer programming (including CS 61A, DS 8) MATH 1a or equivalent background in Calculus, Physics 7A or equivalent
MATH 1A	3 1/2 yrs HS math, including trigonometry & analytic geometry + satisfactory grade in one of the following: CEEB MAT test, an AP test, the UC/CSU math diagnostic test, or 32.
MATH 1B	MATH 1A
MATH 53	MATH 1B
MATH 54	MATH 1B
ME 100	ENG 7 or CS 10 or CS 61A or DS 8, MATH 1A, PHYSICS 7A
ME 102B	ENG 25, ENG 26 (junior transfers students are exempt from this requirement), E 27, as well as ME 100/EE 40/EE 49
ME 103	ME C85, ME40, ME 100/EE 100/EE 49/EE 16A/EE 49, & ME 109
ME 104	ENG 7, ME C85
ME 106	ME C85, 104 (co-requisite)
ME 108	ME C85
ME 109	ME 40, 106
ME 132	MATH 53, 54, PHYSICS 7A-7B
ME 40	CHEM 1A, ENG 7, MATH 1B, PHYSICS 7B
ME C85	MATH 53, 54 (concurrent); PHYSICS 7A
PHYSICS 7A	HS physics; MATH 1A; MATH 1B (concurrent)
PHYSICS 7B	7A, MATH 1A-1B, MATH 53 (may be taken concurrently)