

NUCLEAR ENGINEERING CURRICULUM FLOWCHART

FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR	
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
MATH 51 4	MATH 52 4	MATH 53 4	MATH 54 4	ENGIN 40 4	NUCENG 104 4	TECH ELEC 3 OR 4	NUCENG 170A 3
CHEM 1A + 1AL 5	PHYSICS 7A 4	PHYSICS 7B 4	PHYSICS 7C 4	NUCENG 100 3	NUCENG 150 4	TECH ELEC 3 OR 4	TECH ELEC 3 OR 4
NUCENG 10 1	ENGIN 7 4	MATSCI 45 + 45L 4	ELECTRONIC ELEC 3 OR 4	NUCENG 101 4	TECH ELEC 3 OR 4	TECH ELEC 3 OR 4	TECH ELEC 3 OR 4
H/SS 3 OR 4				STAT/DATA ELEC 3-8		TECH ELEC 3 OR 4	TECH ELEC 3 OR 4
R&C A 4 OR 5	R&C B 4	H/SS 3 OR 4	H/SS UPPER DIV 3 OR 4		H/SS UPPER DIV (ETHICS) 3 OR 4		
ELECTRONIC CIRCUITS ELECTIVE Choose from: EECS 16A ENGIN 11 MEC ENG 100 PHYSICS 111A		STATISTICS/DATA ANALYSIS ELECTIVE Choose from: ENGIN 178 DATA/COMPSCI/STAT C8 + DATA 88 Connector (must take both) DATA/COMPSCI/STAT C100 DATA/STAT C140 EECS 126 INDENG 172 STAT 133 STAT 134		ETHICS COURSE OPTIONS This may be fulfilled within the Humanities/Social Sciences requirement by taking one of the following courses: ANTHRO 156B BIOENG 100 ENGIN 125; 157AC, 185 ESPM 161, 162 GEOG 31 IAS 157AC ISF 100E L&S 160B PHILOS 2, 104, 107 SOCIOL 116		TECHNICAL ELECTIVE NOTES Students must complete 29 technical elective units which must include at least 17 units of upper division nuclear engineering courses. The remaining 12 technical elective units must be fulfilled by taking courses in engineering and science, of which a minimum of 9 units must be upper division. Students must consult with and obtain approval from their faculty adviser no later than the fall semester of their junior year for their choices of technical elective courses. More details and restrictions can be found at https://engineering.berkeley.edu/students/undergraduate-guide/degree-requirements/major-programs/nuclear-engineering/	

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COURSE PREREQUISITES COURSE SEQUENCING MATTERS!

CHEM 1A	High school chemistry recommended
ENGIN 7	MATH 52 (may be taken concurrently)
ENGIN 40	PHYSICS 7B and MATH 54. CHEM 1B recommended
MAT SCI 45	Students should have completed high school AP or honors chemistry and physics
MATH 51	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 52	MATH 51 or MATH N1A
MATH 53	MATH 52 or MATH N1B
MATH 54	MATH 52, MATH N1B, MATH 10B, or MATH N10B
NUCENG 100	PHYSICS 7A, PHYSICS 7B, and MATH 53
NUCENG 101	PHYSICS 7C
NUCENG 104	NUCENG 101 or consent of instructor; NUCENG 150 recommended
NUCENG 150	MATH 53, MATH 54, and NUCENG 100
NUCENG 170A	Senior standing or consent of instructor
PHYSICS 7A	High school physics; MATH 51; MATH 52 (which may be taken concurrently)
PHYSICS 7B	PHYSICS 7A; MATH 51; MATH 52; MATH 53 (may be taken concurrently)
PHYSICS 7C	PHYSICS 7A; PHYSICS 7B; MATH 51; MATH 52; MATH 53; MATH 54 (may be taken concurrently)
Please note that the most current prerequisite information can always be found in the UC Berkeley Course Catalog: https://undergraduate.catalog.berkeley.edu/courses .	