

THE SCIENCE REQUIREMENT

The science requirements for departmental and School of Engineering majors are delineated in the detailed “Program Requirements” section at the back of the Handbook. In general, each program requires a number of specific and elective courses from the list of approved courses shown in Figure 3-2. Individually Designed Majors must include at least 17 units from the list. All engineering students should check the “Program Requirements” pages for their major to see which science courses are recommended or required.

FIGURE 3-2. COURSES APPROVED FOR THE SCIENCE REQUIREMENT

Course	Title	Exper. Units	Total Units
BIOSCI 51, 52, 53	Principles of Biology	–	5, 5, 5
CEE 63	Weather and Storms	–	3
CEE 64	Air Pollution: Urban Smog to Global Change	–	3
CHEM 31	Chemical Principles	–	4
CHEM 32	The Frontiers of Chemical Science	–	4
CHEM 33	Structure and Reactivity	–	4
CHEM 35	Organic Monofunctional Compounds	–	4
CHEM 36	Chemical Separations	2	3
CHEM 131	Organic Poly Compounds	-	3
CHEM 135	Physical Chemical Principles	–	3
EARTHSYS 10	Introduction to Earth Systems	1	3–5
GES 1	Fundamentals of Geology	1	5
GES 2, 3	Earth History	0, 2	3, 2
PHYSICS 51	Light and Heat	–	4
PHYSICS 52	Physics Lab	1	1
PHYSICS 53	Mechanics	–	4
PHYSICS 55	Electricity, Magnetism	–	4
PHYSICS 61–66	Advanced Freshman Physics and labs	2	14