FIGURE 3-4. COURSES FOR THE ENGINEERING FUNDAMENTALS REQUIREMENT

Course	Title	Engr. Design	Engr. Science	Exper. Units	Total Units
ENGR 10	Introduction to Engineering Analysis	4	–	–	4
ENGR 14 *or* ENGR 15	Statics and Deformables Dynamics	2 2	1 1	– –	3 3
ENGR 25	Bioengineering	2	1	–	3
ENGR 20	Introduction to Chemical Engineering	2	1	–	3
ENGR 30	Engineering Thermodynamics	3	–	–	3
ENGR 40	Introductory Electronics	3	2	2	5
ENGR 50	Introductory Science of Materials	4	–	–	4
ENGR 60 *or* ENGR 62	Engineering Economy Introduction to Optimization	3 4	– –	– –	3 4
ENGR 70A * *or* ENGR 70X *	Programming Methodology Programming Methodology and Abstractions	2 2	1 1	– –	5 5

Note:
* Enroll in CS 106A or CS 106X. Electrical Engineering majors must complete either CS 106X, or CS 106A and CS 106B. However, if a student elects to take CS 106A and CS 106B, CS 106B does not count toward the 45 units of Engineering Depth in Electrical Engineering.

Engineering majors must complete a minimum of three Engineering Fundamentals courses, at least one of which must be unspecified by the department.