

Sample Academic Plan: Engineering - Engineering AA/AS Degree

Catalog: 22-23

GE Pattern: Sierra College

Full Time, Total Units: 66

NOTE: This program roadmap represents one possible pathway to complete the program. Please see a counselor to create an academic plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability. For counseling appointments call (916) 660-7400.

First Year

Semester 1 (14 units)

Course Number	Course Title	Units	Area
ENGL 0001A	College Reading, Writing and Research	4 units	SC Area D1/LS 1/2
MATH 0027	Trigonometry	4 units	SC Area D2/LS 4
CHEM 0001A	General Chemistry I	5 units	Major/SC Area A
	General Education	1 unit	SC Area E

Semester 2 (14 units)

Course Number	Course Title	Units	Area
MATH 0029	Precalculus	4 units	Prerequisite
	General Education	1 unit	SC Area F
	General Education	3 units	SC Area B
	General Education	3 units	SC Area LS3
	General Education	3 units	SC Area C

Second Year

Semester 3 (12 units)

Course Number	Course Title	Units	Area
MATH 0030	Analytical Geometry and Calculus I	4 units	Major
ENGR 0151	Engineering Graphics	4 units	Major
ENGR 0180	Engineering Surveying	4 units	Major Elective

Semester 4 (12 units)

Course Number	Course Title	Units	Area
MATH 0031	Analytical Geometry and Calculus II	4 units	Major
PHYS 0205 & 0205L	Principles of Physics: Mechanics/Lab	5 units	Prerequisite
ENGR 0137	Manufacturing Processes	3 units	Major Elective

Third Year

Semester 5 (15 units)

Course Number	Course Title	Units	Area
MATH 0032	Analytical Geometry and Calculus II	4 units	Major
PHYS 0210 & 0210L	Prin of Physics: Electricity Magnetism/Lab	4 units	Major Elective
ENGR 0130	Statics	3 units	Major
ENGR 0140B	Materials Science and Engineering	4 units	Major