

Courses typically taken by Engineering & Computer Science students at Pacific their first two years									
Pacific Course	Pacific Course Title	Bio. E.	Civil E.	Comp. E.	Comp. Sci.	Elec. E.	E. Mgt.	E. Phys.	Mech. E.
<b>Mathematics</b>									
MATH 037	Intro to Statistics and Probability	X	E	X	E	X	X	X	E
MATH 051	Calculus I	R	R	R	R	R	R	R	R
MATH 053	Calculus II	R	R	R	E	R	R	R	R
MATH 055	Calculus III	R	R	R	X	R	R	R	R
MATH 057	Applied Differential Equations I: ODEs	R	R	R	X	R	R	R	R
<b>General Science</b>									
BIOL 041	Intro to Biology	X	E	E	E	X	E	E	E
BIOL 051	Principles of Biology	R	E	E	E	E	E	E	E
BIOL 061	Principles of Biology	R	E	E	E	E	E	E	E
CHEM 023	Elements of Chemistry	X	X	X	E	X	E	X	X
CHEM 025	General Chemistry	R	R	E	E	E	E	E	E
CHEM 027	General Chemistry	R	E	E	E	E	E	E	E
GEOS 051	Dynamic Planet	X	E	E	E	X	E	E	E
PHYS 053	Principles of Physics I	R	R	R	E	R	R	R	R
PHYS 055	Principles of Physics II	R	E	R	E	R	E	R	R
<b>Engineering Science</b>									
ENGR 010	Dean's Seminar	R	R	R	R	R	R	R	R
ENGR 015	Engineering Graphics	R	R	E	X	E	E	X	R
ENGR 019	Computer Applications in Engineering	R	R	X	X	X	R	X	R
ENGR 020	Engineering Mechanics I (Statics)	R	R	E	X	E	R	R	R
ENGR 045	Material Science - Properties and Measurements	R	R	X	X	E	E	R	R
ENGR 120	Engineering Mechanics II (Dynamics)	E	R	X	X	X	E	R	R
ECPE 041/L	Circuits/Lab	R	E	R	X	R	E	R	R
CIVL 022	Surveying	X	R	X	X	X	E	X	X
MECH 100	Manufacturing Processes	X	X	X	X	X	E	E	R
<b>Computer Science</b>									
COMP 047	Discrete Mathematics for Computer Science	X	E	R	R	X	E	X	E
COMP 051	Intro to Computer Science	X	E	E	R	R	X	R	E
COMP 053	Data Structures	X	X	E	R	R	X	E	X

R = Course is required for major  
E = Elective course - may count toward major - Consult with a Pacific Faculty Advisor  
X = Course does not count toward major