

BS AEROSPACE ENGINEERING
2007-09 Cal Poly Catalog
[Aerospace Engineering Department](#)
Engineering III Bldg. (40A), Room 134
(805) 756-2562

- ☐ 60 units upper division ☐ GWR
☐ 2.0 GPA ☐ USCP

* = Satisfies General Education requirement

MAJOR COURSES

AERO 121 Aerospace Fundamentals.....	2
AERO 215 Introduction to Aerospace Design.....	2
AERO 300 Aerospace Engineering Analysis.....	5
AERO 301, 302, 303 Aerothermodynamics	4,4,4
AERO 304 Experimental Aerothermodynamics	2
AERO 306 Aerodynamics and Flight Performance	4
AERO 307 Experimental Aerodynamics	2
AERO 320 Fundamentals of Guidance and Control	4
AERO 331 Aerospace Structural Analysis I.....	4
AERO 401 Propulsion Systems	4
AERO 420 Stability/Control of Aerospace Vehicles	4
AERO 431 Aerospace Structural Analysis II.....	4
AERO 433 Experimental Stress Analysis	1
AERO 446 Introduction to Space Systems	4
AERO 461, 462 Senior Project I, II <i>or</i>	
AERO 463, 464 Senior Project Laboratory I, II	2,3
CE 204 Mechanics of Materials I.....	3
CE 207 Mechanics of Materials II	3
EE 201, 251 Electric Circuit Theory and Lab.....	3,1
Concentration courses (see below).....	22
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SUPPORT COURSES

BIO 213 <i>and</i> ENGR/BRAE 213 (B2)*	2,2
CHEM 124 Gen Chem for Engineering (B3/B4)*	4
EE 321, 361 Electronics and Lab.....	3,1
ENGL 149 Technical Writing for Engineers (A3)*	4
IME 144 Intro Design and Manufacturing.....	4
MATE 210 Materials Engineering.....	3
MATH 141, 142 Calculus I, II (B1)*	4,4
MATH 143 Calculus III (Add'l Area B)*	4
MATH 241 Calculus IV	4
MATH 244 Linear Analysis I	4
ME 211 Engineering Statics.....	3
ME 212 Engineering Dynamics	3
PHYS 131 General Physics (Add'l Area B)*	4
PHYS 132, 133 General Physics II, III.....	4,4
STAT 312 Statistical Methods for Engineers (B6)*	4
	65

GENERAL EDUCATION (GE)

72 units required; 32 units are in Support.

→See page 56 for complete GE course listing.

→Minimum of 8 units required at the 300-400 level.

Area A Communication (8 units)

A1 Expository Writing	4
A2 Oral Communication	4
A3 Reasoning, Argumentation, and Writing * 4 units in Support	0

Area B Science and Mathematics (no add'l units req'd)

B1 Mathematics/Statistics * 8 units in Support....	0
B2 Life Science * 4 units in Support.....	0
B3 Physical Science * 4 units in Support.....	0

B4 One lab taken with either a B2 or B3 course	
B5 (requirement for Liberal Arts students only)	
B6 Upper-division Area B * 4 units in Support	0
Additional Area B units* 8 units in Support	0

Area C Arts and Humanities (16 units)

C1 Literature	4
C2 Philosophy	4
C3 Fine/Performing Arts	4
C4 Upper-division elective	4

Area D/E Society and the Individual (16 units)

D1 The American Experience (40404)	4
D2 Political Economy	4
D3 Comparative Social Institutions	4
D4 Self Development (CSU Area E)	4
	40

ELECTIVES..... 0

196

CONCENTRATIONS (select one)

Aeronautics Concentration

AERO 405 Supersonic/Hypersonic Aerodynamics	4
AERO 443, 444, 445 Aircraft Design I, II, III.....	2,4,4
Aeronautics electives	8
	22

Astronautics Concentration

AERO 451 Spaceflight Dynamics I.....	4
AERO 447, 448, 449 Spacecraft Design I, II, III	2,4,4
Astronautics electives	8
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