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 or
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

SUPPORT COURSES
BIO 213 and 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

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

ELECTIVES ............................................. 0

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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

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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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