



**California State Polytechnic University, Pomona  
DEGREE REQUIREMENT EVALUATION**

YEAR: 2001-2002

MAJOR **AEROSPACE ENGINEERING (5050)**

NAME \_\_\_\_\_ LAST \_\_\_\_\_ FIRST \_\_\_\_\_ MI \_\_\_\_\_

UNITS REQUIRED **202**

STUDENT I.D. # \_\_\_\_\_

**GENERAL EDUCATION.** Students may fulfill these requirements at Cal Poly Pomona with the General Education (GE) or the Interdisciplinary General Education (IGE) Programs. Select courses from approved lists shown in the Schedule of Classes unless specified.

CORE COURSES	Units	Course Taken	Grade	SUPPORT COURSES	Units	Course Taken	Grade	IGE	Units	Course Taken	Grade	GENERAL EDUCATION COURSES	Units	Course Taken	Grade
<i>Students in this major are expected to achieve and maintain a GPA of at least 2.00 in all core courses.</i>				General Chemistry	CHM 121/L	4		IGE 120	4			<b>Area A Communication and Critical Thinking–12 units</b>			
				Elem of Elec. Engg/Lab	ECE 231/L	4		IGE 121	4			1 Written Communication	4		
				An Geom/Calculus II	MAT 115	4		IGE 122	4			2 Oral Communication	4		
				An Geom/Calculus III	MAT 116	4		IGE 220	4			3 Critical Thinking	4		
Intro Aero Engr I	ARO 101/L	1		Calc of Sev Var I	MAT 214	3		IGE 221	4			<b>Area B Math and Natural Sciences–16 units</b>			
Intro Aero Engr II	ARO 102/L	1		Calc of Sev Var II	MAT 215	3		IGE 222	4			<i>Select at least one lab course from sub-area 2 or 3.</i>			
Intro Aero Engr III	ARO 103/L	1		Diff Equations	MAT 216	4		IGE 223	4			1 Mathematics and Quantitative Reasoning	4		
Aero Engr Comp Graphics	ARO 127/L	2		Matls Science	MTE 207	3		IGE 224	4			2 Physical Science	4		
Fund Sys Engr	ARO 201/L	1		Gen Physics	PHY 132/L	4		COM 204	4			3 Biological Science	4		
Fund Aeronautics	ARO 202/L	1		Gen Physics	PHY 133/L	4		EC 202	4			4 Science and Technology Synthesis	4		
Fund Astronautics	ARO 203/L	1						ENG 105	4			<b>Area C Humanities–16 units</b>			
Fluid Mechanics	ARO 301	4						Area 2	17			1 Fine/Performing Arts	4		
Subsonic Aerodyn	ARO 305	4						Area 5	8			2 Philosophy and Civilization	4		
Astronautics	ARO 309	3										3 Literature and Foreign Language	4		
Gas Dynamics	ARO 311	3										4 Humanities Synthesis	4		
Aero Propulsn Sys	ARO 312	4										<b>Area D Social Sciences–20 units</b>			
Aero Fdbk Ctrl Sys	ARO 322/L	4										<i>Two courses in sub-area 1, and at least one course from each of sub-areas 2, 3, and 4.</i>			
Intro Struct Mech	ARO 326	4										1 U.S. History, Constitution, American Ideals	8		
Aero Struct Mech	ARO 327	3										2 History, Economics, and Political Science	4		
Aero Struct Analysis & Design	ARO 329	3										3 Sociology, Anthropology, Ethnic, and Gender Studies	4		
Gas Dynamics Lab	ARO 351/L	1										4 Social Science Synthesis	4		
Aerodyn & Propulsion Lab	ARO 352/L	1										<b>Area E Lifelong Understanding and Self-Development–4 units</b>			
Aero Struc Lab	ARO 357/L	1										GENERAL EDUCATION (above areas)	68		
Heat, Mass & Moment Transfer	ARO 401	4										UNRESTRICTED ELECTIVES:	20		
High-Speed Aerodyn	ARO 404	3										<b>SUMMARY OF ADVANCED STANDING CREDIT:</b>			
Aero Veh Stab & Cont	ARO 405	4										Earned Hours _____			
Dynam Aero Sys	ARO 406	4										G.P.A. Hours _____			
Senior Project	ARO 461	2										Quality Points _____			
Senior Project	ARO 462	2										G.P.A. _____			
Aero Concepts Integrative	ARO 490/L	1										ELM Satisfied ____ Yes ____ No			
Intro to Vehicle Design	ARO 491/L	2										EPT Satisfied ____ Yes ____ No			
Vehicle Design Lab I	ARO 492/L	2										GWT Satisfied ____ Yes ____ No			
Vehicle Design Lab II	ARO 493/L	2										EVALUATOR _____			
Vector Statics	ME 214	3										DATE _____			
Vector Dynamics	ME 215	4										UPDATES _____			
Thermodynamics	ME 301	4													
Approved Technical Elec		16													
<b>UNITS REQUIRED:</b>	<b>96</b>			<b>UNITS REQUIRED:</b>	<b>37</b>			<b>UNITS REQUIRED:</b>	<b>69</b>						

NOT MORE THAN 105 UNITS FROM A COMMUNITY COLLEGE NOR MORE THAN 36 UNITS OF EXTENSION WORK MAY BE APPLIED TOWARD A BACHELOR'S DEGREE.  
A 2.0 CUMULATIVE GPA IS REQUIRED IN CORE COURSES INCLUDING OPTION COURSES IN ORDER TO RECEIVE A DEGREE IN THIS MAJOR.