



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

ELM Satisfied \_\_\_ Yes \_\_\_ No  
 EPT Satisfied \_\_\_ Yes \_\_\_ No  
 GWT Satisfied \_\_\_ Yes \_\_\_ No

MAJOR **AEROSPACE ENGINEERING (5050)**

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

TERM ADMITTED \_\_\_\_\_ YEAR: **2004-2005**

OPTION/EMPHASIS \_\_\_\_\_

EVALUATOR \_\_\_\_\_

UNITS REQUIRED **202**

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

DATE \_\_\_\_\_

UPDATES \_\_\_\_\_

CORE COURSES	Units	SUPPORT COURSES	Units	IGE	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.																																																																																	
<i>Students in this major are expected to <u>maintain</u> a GPA of at least 2.00 in all core courses.</i>																																																																																						
Intro Aeronautics	ARO 101A 1	Elem of Elec. Engg/Lab	ECE 231/251L 4	IGE 120 4	<table border="1"> <thead> <tr> <th colspan="2">GENERAL EDUCATION COURSES</th> <th>Units</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Area A Communication and Critical Thinking–12 units</b></td> </tr> <tr> <td>1</td> <td>ENG 104</td> <td>4</td> </tr> <tr> <td>2</td> <td>COM 204</td> <td>4</td> </tr> <tr> <td>3</td> <td>ENG 105</td> <td>4</td> </tr> <tr> <td colspan="3"><b>Area B Math and Natural Sciences–16 units</b></td> </tr> <tr> <td>1</td> <td><u>MAT 114</u></td> <td>4</td> </tr> <tr> <td>2</td> <td><u>PHY 131L, CHM 121/121L</u></td> <td>5</td> </tr> <tr> <td>3</td> <td>Biological Science</td> <td>3</td> </tr> <tr> <td>4</td> <td>Science and Technology Synthesis*</td> <td>4</td> </tr> <tr> <td colspan="3"><b>Area C Humanities– 16 units</b></td> </tr> <tr> <td>1</td> <td>Fine/Performing Arts</td> <td>4</td> </tr> <tr> <td>2</td> <td>PHL 201</td> <td>4</td> </tr> <tr> <td>3</td> <td>Literature and Foreign Language</td> <td>4</td> </tr> <tr> <td>4</td> <td>Humanities Synthesis*</td> <td>4</td> </tr> <tr> <td colspan="3"><b>Area D Social Sciences– 20 units</b></td> </tr> <tr> <td>1a</td> <td>PLS 201</td> <td>4</td> </tr> <tr> <td>1b</td> <td>HST 202</td> <td>4</td> </tr> <tr> <td>2</td> <td>EC 202</td> <td>4</td> </tr> <tr> <td>3</td> <td>SOC/PLS 390</td> <td>4</td> </tr> <tr> <td>4</td> <td>Social Science Synthesis*</td> <td>4</td> </tr> <tr> <td colspan="3"><b>Area E Lifelong Understanding and Self-Development–4 units</b></td> </tr> <tr> <td></td> <td>PSY 201</td> <td>4</td> </tr> <tr> <td colspan="6"><i><u>Underlined courses</u> satisfy both major and general education requirements.</i></td> </tr> <tr> <td colspan="6">*Department Approval Required</td> </tr> </tbody> </table>	GENERAL EDUCATION COURSES		Units	<b>Area A Communication and Critical Thinking–12 units</b>			1	ENG 104	4	2	COM 204	4	3	ENG 105	4	<b>Area B Math and Natural Sciences–16 units</b>			1	<u>MAT 114</u>	4	2	<u>PHY 131L, CHM 121/121L</u>	5	3	Biological Science	3	4	Science and Technology Synthesis*	4	<b>Area C Humanities– 16 units</b>			1	Fine/Performing Arts	4	2	PHL 201	4	3	Literature and Foreign Language	4	4	Humanities Synthesis*	4	<b>Area D Social Sciences– 20 units</b>			1a	PLS 201	4	1b	HST 202	4	2	EC 202	4	3	SOC/PLS 390	4	4	Social Science Synthesis*	4	<b>Area E Lifelong Understanding and Self-Development–4 units</b>				PSY 201	4	<i><u>Underlined courses</u> satisfy both major and general education requirements.</i>						*Department Approval Required					
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Intro Astronautics	ARO 102A 1	An Geom/Calculus II	MAT 115 4	IGE 121 4																																																																																		
Intro Aero Propulsn	ARO 103A 1	An Geom/Calculus III	MAT 116 4	IGE 122 4																																																																																		
Aero Engr Comp Graphics	ARO 127L 2	Calc of Sev Var I	MAT 214 3	IGE 220 4																																																																																		
Fund Sys Engr	ARO 201L 1	Calc of Sev Var II	MAT 215 3	IGE 221 4																																																																																		
Fund Aeronautics	ARO 202L 1	Diff Equations	MAT 216 4	IGE 222 4																																																																																		
Fund Astronautics	ARO 203L 1	Matls Science	MTE 207 3	IGE 223 4																																																																																		
Fluid Dynamics	ARO 301 4	Gen Physics	PHY 131 3	IGE 224 4																																																																																		
Low Speed Aerodyn	ARO 305 4	Lap Trans & Fourier Ser	MAT 317 3	COM 204 4																																																																																		
Spacecraft & Mission Dsgn	ARO 309 3	Math Anal of Engr. Prob	MAT 318 3	EC 202 4																																																																																		
Gas Dynamics	ARO 311 3	Gen Physics	PHY 132/L 4	ENG 105 4																																																																																		
Aircraft Jet Propulsn	ARO 312 4	Gen Physics	PHY 133/L 4	Area B 16																																																																																		
Aero Fdbk Ctrl Sys	ARO 322/L 4	Gen Physics	PHY 133/L 4	Area C4 4																																																																																		
Aero Struct Mech I/Lab	ARO 326/L 4	Vector Statics	ME 214 3	Area D4 4																																																																																		
Aero Struct Mech II	ARO 327 3	Vector Dynamics	ME 215 4																																																																																			
Aero Struct Analysis & Design	ARO 329 3	CME Thermodynamics I	CHE 302 4																																																																																			
Fluid Dyn/Heat Transf Lab	ARO 351L 1																																																																																					
Aerodyn & Jet Propulsion Lab	ARO 352L 1																																																																																					
Aero Struc Lab	ARO 357L 1																																																																																					
Heat, Mass & Moment Transfer	ARO 401 4																																																																																					
High-Speed Aerodyn	ARO 404 3																																																																																					
Aircraft Stab & Cont	ARO 405 4																																																																																					
Dynam Aero Sys	ARO 406 4																																																																																					
Senior Project	ARO 461 2																																																																																					
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Aero Sciences	ARO 490L 1																																																																																					
Aero Vehicle Design Lab I	ARO 491L 2																																																																																					
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Aero Vehicle Design Lab III	ARO 493L 2																																																																																					
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<b>UNITS REQUIRED:</b>	<b>81</b>	<b>UNITS REQUIRED:</b>	<b>53</b>	<b>UNITS REQUIRED:</b>	<b>68</b>																																																																																	

<b>SUMMARY OF ADVANCED STANDING CREDIT:</b> Earned Hours _____ G.P.A. Hours _____ Quality Points _____ G.P.A. _____
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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.

**CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA  
AEROSPACE ENGINEERING**

NAME: \_\_\_\_\_  
CPID: \_\_\_\_\_

**CURRICULUM FLOWSHEET, 2004-05**

