



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

ELM Satisfied	___ Yes ___ No
EPT Satisfied	___ Yes ___ No
GWT Satisfied	___ Yes ___ No

MAJOR (PLAN) **AEROSPACE ENGINEERING** NAME _____
 OPTION/EMPHASIS (SUB-PLAN) _____ LAST _____ FIRST _____ MI _____
 UNITS REQUIRED FOR A BACHELOR'S DEGREE **198** STUDENT I.D. # _____

TERM ADMITTED _____ YEAR: **2006-2007**
 EVALUATOR _____
 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 maintain a GPA of at least 2.00 in all core courses.</i>		Elements of Electrical Engineering/Lab	ECE 231/231L	4	IGE 120	4										
		Analytical Geometry/Calculus 1* (B1)	MAT 114	(4)	IGE 121	4										
Introduction to Aeronautics	ARO 101L	1	Analytical Geometry/Calculus II	MAT 115	4	IGE 122	4									
Introduction to Astronautics	ARO 102L	1	Analytical Geometry/Calculus III	MAT 116	4	IGE 220	4									
Introduction to Aerospace Propulsion	ARO 103L	1	Calculus of Several Variables I	MAT 214	3	IGE 221	4									
Aerospace Engineering Computer Graphics	ARO 127L	1	Calculus of Several Variables II	MAT 215	3	IGE 222	4									
Fundamentals of Systems Engineering	ARO 201L	1	Differential Equations	MAT 216	4	IGE 223	4									
Fundamentals of Aeronautics	ARO 202L	1	Materials Science	MTE 207	3	IGE 224	4									
Fundamentals of Astronautics	ARO 203L	1	General Physics	PHY 131	3	COM 204	4									
Fluid Dynamics	ARO 301	4	General Physics Lab* (B2)	PHY 131L	(1)	EC 202	4									
Low-Speed Aerodynamics	ARO 305	4	Math Analysis of Engineering Problems	MAT 318	3	ENG 105	4									
Astronautics & Spacecraft Design	ARO 309	3	General Physics	PHY 132/L	4	Area B	16									
Gas Dynamics	ARO 311	3	General Physics	PHY 133/L	4	Area C4	4									
Aircraft Jet Propulsion	ARO 312	4	Vector Statics	ME 214	3	Area D4	4									
Aerospace Feedback Control Systems	ARO 322/L	4	Vector Dynamics	ME 215	4											
Aerospace Structural Mechanics I/Lab	ARO 326/L	4	CME Thermodynamics I	CHE 302	4											
Aerospace Structural Mechanics II	ARO 327	3	General Chemistry/Lab* (B2)	CHM 121/L	(4)											
Aerospace Structures	ARO 329	3	Freshman English I* (A1)	ENG 104	(4)											
Fluid Dynamics & Heat Transfer Lab	ARO 351L	1	Advocacy and Argument* (A2)	COM 204	(4)											
Aerodynamics & Jet Propulsion Lab	ARO 352L	1	Freshman English II* (A3)	ENG 105	(4)											
Aerospace Structures Lab	ARO 357L	1	Introduction to Philosophy* (C2)	PHL 201	(4)											
Heat, Mass & Momentum Transfer	ARO 401	4	Introduction to American Government* (D1a)	PLS 201	(4)											
High-Speed Aerodynamics	ARO 404	3	United States History* (D1b)	HST 202	(4)											
Aircraft Stability & Control	ARO 405	4	Principles of Economics* (D2)	EC 202	(4)											
Advanced Dynamics of Aerospace Systems	ARO 406	4	General Psychology* (E)	PSY 201	(4)											
Senior Project	ARO 461	2														
Senior Project	ARO 462	2														
Aerosciences	ARO 490L	1	Courses marked with an * may be used to satisfy GE requirements. If these courses are not used to satisfy GE, the total units to degree may be more than 198 units.													
Aerospace Vehicle Design Lab I	ARO 491L	2														
Aerospace Vehicle Design Lab II	ARO 492L	2														
Aerospace Vehicle Design Lab III	ARO 493L	2														
Approved Technical Electives	12	<table border="1"> <tr> <td align="center" colspan="2">SUMMARY OF ADVANCED STANDING CREDIT:</td> </tr> <tr> <td>Earned Hours</td> <td>_____</td> </tr> <tr> <td>G.P.A. Hours</td> <td>_____</td> </tr> <tr> <td>Quality Points</td> <td>_____</td> </tr> <tr> <td>G.P.A.</td> <td>_____</td> </tr> </table>				SUMMARY OF ADVANCED STANDING CREDIT:		Earned Hours	_____	G.P.A. Hours	_____	Quality Points	_____	G.P.A.	_____	
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Earned Hours	_____															
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Quality Points	_____															
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					GENERAL EDUCATION COURSES		Units									
					Area A Communication & Critical Thinking		12									
					1 Written Communication											
					2 Oral Communication											
					3 Critical Thinking											
					Area B Mathematics & Natural Sciences		16									
					1 Math/Quantitative Reasoning											
					2 Physical Science											
					3 Biological Science											
					4 Science & Technology Synthesis											
					Area C Humanities		16									
					1 Fine and Performing Arts											
					2 Philosophy and Civilization											
					3 Literature and Foreign Language											
					4 Humanities Synthesis											
					Area D Social Sciences		20									
					1 U.S. History, Constitution, American Ideals:											
					a. Political Science											
					b. U.S. History											
					2 History, Economics and Political Science											
					3 Sociology, Anthropology, Ethnic & Gender Studies											
					4 Social Science Synthesis											
					Area E Lifelong Understanding & Self Development		4									
					Lifelong Understanding											

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.

Aerospace Engineering Department
Aerospace Engineering Major
Curriculum Year: 2006-2007

*Your department has developed this road plan, taking into account prerequisites and schedule restrictions.
You should pay attention to these concerns when deviating from this plan.*

Year 1	Fall	Units	Winter	Units	Spring	Units	Comment
	ARO 101A Major Core	1	ARO 102A Major Core	1	ARO 103A Major Core	1	<i>Students in this major are expected to maintain a GPA of at least 2.00 in all core courses. ENG 104, MAT 114, and PHY 131L satisfy both major and general education requirements</i>
	MAT 114 GE Area B1	4	MAT 115 Major Support	4	MAT 116 Major Support	4	
	ENG 104 GE Area A1	4	ENG 105 GE Area A3	4	ME 214 Major Support	3	
	COM 204 GE Area A2	4	HST 202 GE Area D1b	4	PSY 201 GE Area E	4	
			PHY 131 Major Support	3	PHY 132/132L Major Support	4	
			PHY 131L GE Area B2	1	ARO 127L Major Core	1	
Total Units	13	Total Units	17	Total Units	17		
Total Units for Year						47	

Year 2	Fall	Units	Winter	Units	Spring	Units	Comment
	ARO 201L Major Core	1	ARO 202L Major Core	1	ARO 203L Major Core	1	<i>One course must be completed in each of the GE areas A2-3, B1-3, C1-3, D3, and E.</i>
	MAT 214 Major Support	3	CHM 121/121L GE Area B2	4	MAT 216 Major Support	4	
	ME 215 Major Support	4	MAT 215 Major Support	3	MAT 318 Major Support	3	
	PHY 133/133L Major Support	4	ARO 326/326L Major Core	4	ARO 327 Major Core	3	
	GE Area Any approved course in area C1	4	PLS 201 GE Area D1a	4	PHL 201 GE Area C2	4	
					MTE 207 Major Support	3	
Total Units	16	Total Units	16	Total Units	18		
Total Units for Year						50	

Year 3	Fall	Units	Winter	Units	Spring	Units	Comment
	ARO 322/322L Major Core	4	ARO 305 Major Core	4	ARO 312 Major Core	4	
	ARO 301 Major Core	4	ARO 311 Major Core	3	ARO 404 Major Core	3	
	CHE 302 Major Support	4	ARO 406 Major Core	4	ARO 401 Major Core	4	
	ARO 357L Major Core	1	ARO 329 Major Core	3	ARO 309 Major Core	3	
	ECE 231/251L Major Support	4	EC 202 GE Area D2	4	ARO 351L Major Core	1	
					GE Area Any approved course in area B3	4	
	<i>Take the Graduation Writing Test</i>						
	Total Units	17	Total Units	18	Total Units	19	
					Total Units for Year	54	

Year 4	Fall	Units	Winter	Units	Spring	Units	Comment
	ARO 405 Major Core	4	ARO 462 Major Core	2	ARO 493L Major Core	2	<p><i>Departmental approval required for all GE Synthesis courses.</i></p> <p><i>All GE Area A courses and all lower division GE courses in a GE area must be completed before taking the GE Synthesis course in that area.</i></p>
	Approved Elective Major Core	4	Approved Elective Major Core	4	Approved Elective Major Core	4	
	ARO 352L Major Core	1	ARO 492L Major Core	2	GE Synthesis Any approved course in area B4, C4, or D4	4	
	ARO 491L Major Core	2	SOC/PLS 390 GE Area D3	4	GE Synthesis Any approved course in area B4, C4, or D4	4	
	ARO 461 Major Core	2	GE Synthesis Any approved course in area B4, C4, or D4	4			
	ARO 490L Major Core	1					
	GE Area Any approved course in area C3	4					
	<i>Request a graduation check</i>				<i>File an application for graduation</i>		
Total Units	18	Total Units	16	Total Units	14		
					Total Units for Year	48	

Total Units on Plan	198	
Major Core Units	80	
Major Support Units	50	
General Education Units	68	
Unrestricted Elective Units	0	

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

NAME: _____

CPID: _____

CURRICULUM FLOWSHEET, 2006-07

