## California State Polytechnic University, Pomona Degree Curriculum Sheet

Required Core Courses			uired Support Courses	General Education Requirements	
Course		Units	Irse Units	Area	Un
Introduction to Aeronautics Lab	ARO 101L	1	damentals of Systems Engineering Lab ARO 201L 1	Area A Communication & Critical Thinking	
Introduction to Astronautics Lab	ARO 102L	1	Thermodynamics I CHE 302 4	1 Oral Communication	
Introduction to Aerospace Propulsion Lab	ARO 103L	1	Thermodynamics I ME 301 (4)	2 Written Communication	
Fundamentals of Aeronautics Lab	ARO 202L	1	eral Chemistry CHM 121 3	3 Critical Thinking	
Fundamentals of Astronautics Lab	ARO 203L	1	eral Chemistry Lab (B3) CHM 121L 1	Area B Mathematics & Natural Sciences	
Fluid Dynamics	ARO 301	4	nents of Electrical Engineering ECE 231/231L 3/1	Select at least one lab course from sub-area 1 or 2.	
Low-Speed Aerodynamics and Performance	ARO 305	4	cal Consideration in Tech & App Sci (C4) EGR 402 4	1 Physical Science	
Astronautics	ARO 309	3	lytical Geometry/Calculus 1 (B4) MAT 114 4	2 Biological Science	
Gas Dynamics	ARO 311	3	lytical Geometry/Calculus II MAT 115 4	3 Laboratory Activity	
Aircraft Jet Propulsion	ARO 312	4	lytical Geometry/Calculus III MAT 116 4	4 Math/Quantitative Reasoning	
Aerospace Feedback Control Systems	ARO 322/322L	3/1	culus of Several Variables I MAT 214 3	5 Science & Technology Synthesis	
Aerospace Structural Mechanics I	ARO 326/326L	3/1	culus of Several Variables II MAT 215 3	Area C Humanities	
Aerospace Structural Mechanics II	ARO 327	3	erential Equations MAT 216 4	1 Visual and Performing Arts	
Aerospace Structures	ARO 329	3	Elem Linear Algebra Diff Equations MAT 224 (4)	2 Philosophy and Civilization	
Fluid Dynamics & Heat Transfer Lab	ARO 351L	1	th Analysis of Engineering Problems MAT 318 3	3 Literature and Foreign Language	
High Speed Aerodynamics Lab	ARO 352L	1	tor Statics ME 214 3	4 Humanities Synthesis	
or Low Speed Aerodynamics Lab	ARO 435L	(1)	tor Dynamics ME 215 4	Area D Social Sciences	
Aerospace Structures Lab	ARO 357L	1	terials Science and Engineering MTE 207 3	1 U.S. History, Constitution, American Ideals	
Heat, Mass & Momentum Transfer	ARO 401	4	eral Physics (B1, B3) PHY 131/131L 3/1	2 History, Economics and Political Science	
High-Speed Aerodynamics	ARO 404	3	eral Physics PHY 132/132L 3/1	3 Sociology, Anthropology, Ethnic & Gender Studie	s
Aircraft Stability & Control	ARO 405	4	eral Physics PHY 133/133L 3/1	4 Social Science Synthesis	
Advanced Dynamics & Vibrations of Aerospace	Systems ARO 406	4		Area E Lifelong Understanding & Self Developmen	t
Senior Project	ARO 461	2		Tot	al Units
Senior Project	ARO 462	2			
Space Vehicle Design Lab I	ARO 481L	2		American Institutions	
or Air Vehicle Design I Lab	ARO 491L	(2)		Courses that satisfy this requirement may also satisfy G.E.	۲ Area
Space Vehicle Design Lab II	ARO 482L	2		D1	
or Air Vehicle Design II Lab	ARO 492L	(2)	Total Units   64		I
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Space Vehicle Design Lab III

or Air Vehicle Design III Lab

Aerosciences Lab

Elective Core Courses

Approved Technical Electives

Course

ARO 483L

ARO 493L

ARO 490L

Total Units

Total Units

2

(2)

1

66

Units

13

13

## American Cultural Perspectives Requirement

Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements. Yes

Units

12

16

16

20

4 68

8

4

IGE (G.E.

Alternative)

IGE 121

IGE 122

IGE 220

IGE 221

IGE 222

IGE 223

IGE 224

Area A1

Area A3

Area B

Area C4

Area D4

See University

Catalog for information on how IGE meets G.E. requirements.

Area C1, C2 or C3

No

4

4

4

4

4

4

4

4

4

4

4

4

4

16

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

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Course		GE Area
General Physics	PHY 131/131L	B1, B3
and General Chemistry Lab	CHM 121L	B3
Analytical Geometry/Calculus 1	MAT 114	B4
Ethical Consideration in Tech & App Sci	EGR 402	C4
The remaining GE requirements may be satisfie that area.	ed by any course appr	oved for

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.

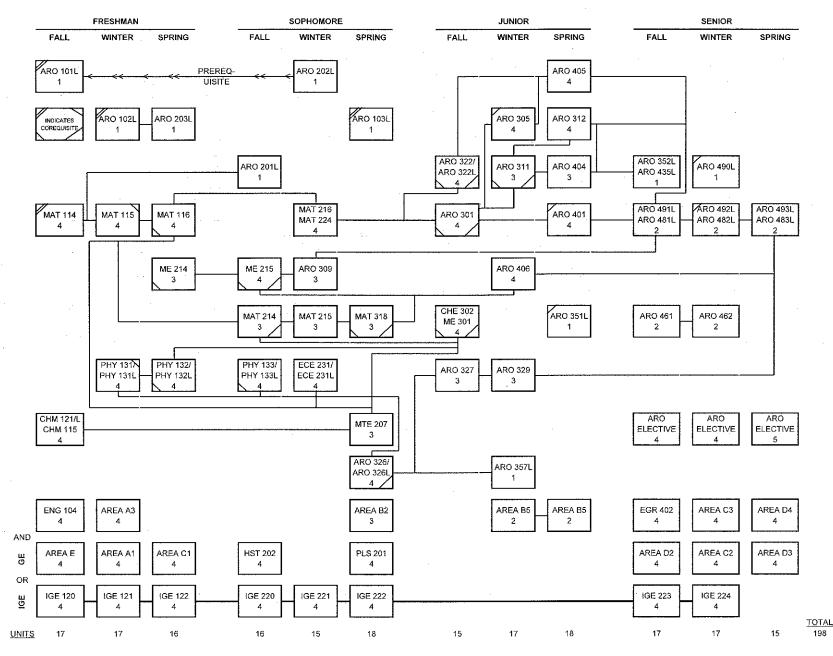
A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

## CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA AEROSPACE ENGINEERING

NAME: \_\_\_\_

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

## CURRICULUM FLOWSHEET, 2013-14



Revised: 3/14/13