

Name:

EMPL ID:



**B.S. in AEROSPACE ENGINEERING
(Astronautical Concentration)**
Suggested 3-Year Academic Flowchart for Transfer Students

2020-2021 Catalog
Unofficial

DATE UPDATED:

Please note: This flowchart is one example of how students can graduate in 3 years. We encourage students to use this as a tool in creating their own unique quarter by quarter graduation plan.

Updated 5/9/2020

	YEAR 1			YEAR 2			YEAR 3			
	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring	
<p>This Transfer Student Flowchart assumes equivalents for the courses below have been transferred to Cal Poly. Anything not transferred in needs to be added to this flowchart, which may result in an additional quarter/s. Check your DPR to verify credit:</p> <ul style="list-style-type: none"> ▫ MATH 141 ▫ MATH 142 ▫ MATH 143 ▫ MATH 241 ▫ MATH 244 ▫ PHYS 141 ▫ PHYS 132 ▫ PHYS 133 ▫ CHEM 124 ▫ EE 201 ▫ EE 251 ▫ MATE 210 ▫ ME 211 ▫ ME 212 ▫ ENGL 149 (A3) ▫ BIO/BMED 213 (B2) 	<p><i>Aerospace Fundamentals</i> AERO 121 (2)</p>	<p><i>Introduction to Aerospace Design</i> AERO 215 (2) <small>(AERO 121, MATH 143, IME 144, Recom: CSC 111)</small></p>	<p><i>Aerospace Thermodynamics</i> AERO 299 (4) <small>(ME 212; AERO 300+; Recom: AERO 215)</small></p>	<p><i>Aerospace Fluid Mechanics</i> AERO 302 (4) <small>(ME 212; AERO 300+. Rec: AERO 215; 299 or 301)</small></p>	<p><i>Aerospace Gas Dynamics and Heat Transfer</i> AERO 303 (4) <small>(AERO 299 or 301; 302)</small></p>	<p><i>Aerospace Structural Analysis II</i> AERO 431 (4) <small>(AERO 331)</small></p>	<p><i>Experimental Stress Analysis</i> AERO 433 (1) <small>(AERO 331, 431)</small></p>	<p><i>Aerospace Systems Senior Laboratory</i> AERO 465 (1) <small>(AERO 303, 320, 431, Sr Standing)</small></p>		
	<p><i>Mechanics of Materials I</i> CE 204 (3)² <small>(ME 211)</small></p>	<p><i>Aerospace Systems Engineering & Integration</i> AERO 220 (1) <small>(AERO 121)</small></p>	<p><i>Aerospace Engineering Analysis</i> AERO 300 (5) <small>(AERO 215, MATH 244, ME 211, PHYS 133)</small></p>	<p><i>Fundamentals of Dynamics and Control</i> AERO 320 (4) <small>(AERO 300; ME 212. AERO 321+)</small></p>	<p><i>Aerospace Structural Analysis I</i> AERO 331 (4) <small>(AERO 300; CE 207 or 208; ME 212)</small></p>	<p><i>Space Environments II</i> AERO 356 (3) <small>(AERO 299 or 301; 355)</small></p>	<p><i>Aerospace Engineering Professional Preparation</i> AERO 460 (1) <small>(Sr Standing)</small></p>	<p>Astronautics Approved Electives (4)^{*1}</p>	<p>Astronautics Approved Electives (4)^{*1}</p>	
		<p><i>Mechanics of Materials II</i> CE 207 (2)² <small>(CE 204)</small></p>		<p><i>Experimental Sensors, Actuators & Control</i> AERO 321 (1) <small>(AERO 320+)</small></p>	<p><i>Fundamentals of Systems Engineering</i> AERO 350 (2) <small>(AERO 220)</small></p>	<p><i>Spacecraft Electrical & Electrical Systems</i> AERO 446 (4) <small>(ME 212; EE 201 & 251; AERO 353 or 355)</small></p>	<p><i>Spacecraft Design I</i> AERO 447 (3) <small>(IME 144; AERO 215; 303; 351; 420 or 421; 431; 446. 402+)</small></p>	<p><i>Spacecraft Design II</i> AERO 448 (3) <small>(AERO 447)</small></p>	<p><i>Spacecraft Design III</i> AERO 449 (3) <small>(AERO 448)</small></p>	
		<p><i>Introduction to Design & Manufacturing</i> IME 144 (4) <small>(Recom: IME 140 or ME 129)</small></p>		<p><i>Introduction to Orbital Mechanics</i> AERO 351 (4) <small>(AERO 300 & ME 212)</small></p>	<p><i>Space Environments I</i> AERO 355 (3) <small>(AERO 300)</small></p>	<p><i>Spacecraft Attitude Dynamics & Control</i> AERO 421 (4) <small>(AERO 320 & 351)</small></p>	<p><i>Spacecraft Propulsion Systems</i> AERO 402 (5) <small>(AERO 303; AERO 353 or AERO 355; CHEM 124)</small></p>	<p>Any remaining support course or GE not transferred</p>	<p>Any remaining support course or GE not transferred</p>	
		<p><i>Statistical Methods for Engineers</i> STAT 312 (4) <small>(MATH 142) [B6]</small></p>	<p>Upper-Division GE C (4)** <small>(combine with USCP requirement if still needed)</small></p>				<p>Any remaining support course or GE not transferred</p>	<p>Any remaining support course or GE not transferred</p>	<p>Any remaining support course or GE not transferred</p>	
		<p>Any remaining support course or GE not transferred</p>	<p>Any remaining support course or GE not transferred</p>		<p>Graduation Writing Requirement GWR* <small>(Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)</small></p>					
		13+	13+	13	13	13	15	10+	8+	7+

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

* Refer to current catalog for prerequisites.

**Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, D Elective and E.

†Course can be taken previously or concurrently.

¹Consultation with advisor is recommended prior to selecting approved electives; bear in mind your selections may impact pursuit of postbaccalaureate studies and/or goals.

²CE 204 & 207 can be replaced by taking 208

Legend:

Course Title	
Course # (Units)	 Major
(Prerequisite)	 Support
[GE Area]	 Concentration
	 General Ed.