

B.S. in AEROSPACE ENGINEERING (Astronautical Concentration)

Suggested 3-Year Academic Flowchart for Tranfer Students

Updated 5/4/2023

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

This Transfer Charles the short	YEAR 1			YEAR 2			YEAR 3		
This Transfer Student Flowchart assumes equivalents for the courses below have been	Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
transferred to Cal Poly. Anything not					Aerospace	Aerospace		Aerospace	
transferred in needs to be added to this	Aerospace Fundamentals	Introduction to Aerospace Design	Aerospace Thermodynamics	Aerospace Fluid Mechanics	Structural Analysis	Structural	Experimental Stress Analysis	Systems Senior	
flowchart, which may result in an additional	runuamentais	Aerospace Design	mermodynamics	riechanics	I	Analysis II	Stress Arialysis	Laboratory	
quarter/s. Check your DPR to verify credit:	AERO 121 (2)	AERO 215 (2)	AERO 299 (4)	AERO 302 (4)	AERO 331 (4)	AERO 431 (4)	AERO 433 (1)	AERO 465 (1)	
☐ MATH 141 ☐ GE AREA A1		(AERO 121; MATH 143; Recom: IME 144)	(ME 212; AERO 300+; Recom: AERO 215)	(ME 212; AERO 300†. Rec: AERO 215; 299 or 301)	(AERO 300; CE 207 or 208; ME 212)	(AERO 331)	(AERO 331, 431)	(AERO 303, 320, 431, Sr Standing)	
☐ MATH 142 ☐ GE AREA A2	Mechanics of	Aerospace Systems	Aerospace	Fundamentals of	Aerospace Gas	C	Aerospace	Astronautics	Astronautics
☐ MATH 143 ☐ GE AREA C1	Materials I	Engineering & Integration	Engineering Analysis	Dynamics and Control	Dynamics and Heat Transfer	Space Environments II	Engineering Professional Preparation	Approved Electives	Approved Electives
☐ MATH 241 ☐ GE AREA C2	CE 204 (3) ²	AERO 220 (1)	AERO 300 (5)	AERO 320 (4)	AERO 303 (4)	AERO 356 (3) (AERO 299 or 301;	AERO 460 (1)	(4)* ¹	(4)* ¹
	(ME 211)	(AERO 121)	(AERO 215; MATH 244; ME 211; PHYS 143)	(AERO 300; ME 212)	(AERO 299 or AERO 301; AERO 302)	355)	(Sr Standing)		
☐ CHEM 124	Any remaing		Any remaing	Experimental	Fundamentals of	Spacecraft	Spacecraft Design		
☐ EE 201 ☐ GE AREA D2	support course or GE not transferred	Mechanics of Materials II	support course or GE not	Sensors, Actuators & Control	Systems Engineering	Electrical & Electrical	I	Spacecraft Design II	Spacecraft Design III
☐ EE 251 ☐ GE AREA D ELECTIVE		CE 207 (2) ²	transferred	AERO 321 (1)	AERO 350 (2)	Systems AERO 446 (4)	AERO 447 (3) (IME 144; AERO 215; 303; 350; 351; 420 or	AERO 448 (3)	AERO 449 (3)
☐ MATE 210		(CE 204)		(AERO 300; Rec: EE 201 & EE 251)	(AERO 220)	(ME 212; EE 201 & 251; AERO 353 or 355)	421; 431; 446. 402† Recom: AERO 353 or	(AERO 447)	(AERO 448)
☐ ME 211						Spacecraft	355)	Any remaing	Any remaing
☐ PHYS 141	Introduction to Design & Manufacturing IME 144 (4)			Introduction to Orbital Mechanics	Space Environments I	Attitude Dynamics &	Spacecraft Propulsion	support course or GE not	support course or GE not
☐ PHYS 142 (formerly PHYS 132)				AERO 351 (4)	AERO 355 (3)	Control AERO 421 (4)	Systems AERO 402 (5)	transferred	transferred
☐ PHYS 143 (formerly PHYS 133)	Statistical Metho	ds for Engineers	Upper-Division GE C (4)**	(AERO 300 & ME 212)	(AERO 300)	(AERO 320 & 351)	(AERO 303; AERO 353 or AERO 355; CHEM 124)		
☐ GE AREA A3 (formerly ENGL 149^)	(com		(combine with				,		
☐ BIO/BMED 213 (B2) or Any GE B2	STAT 312 (4)* (MATH 142) [Upper Division B]		USCP				Any remaing		
			requirement if still needed)				support course or GE not		
	[Upper D	IVISION B]	Jan Heededy				transferred		
	Graduation Writing Requirement GWR* (Must be fulfilled before graduation by either enrolling in a GWR-approved, upper-division English course (which can double-count with the Upper Division C) OR by completing the GWR Portfolio. GWR courses are searchable on Schedule Builder).								
	9+	9+	13	13	13	15	10+	8+	7+

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

* Refer to current catalog for prerequisites.

Notes:

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.

Legend:



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

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

² If you have equivalent credit for CE 204, but not CE 207, then take CE 207. If you need both, you can take CE 208 (5). This course combnes CE 204 (3) & CE 207 (2) to expedite the series.

[^]ENGL 149 has been discontinued. For those who still need to take this requirement, you will need to replace this requirement with any GE A3 course.