

SDSU Major Academic Plan (MAP)

Major: 441001 - AEROSPACE ENGINEERING - BS

Catalog Year: 2025 - 2026

First Year

<u>FALL SEMESTER</u>		<u>SPRING SEMESTER</u>		
Description	Course	Units	Description	Course
GE English Composition [1A]		3	GE Critical Thinking [1B]	
Calculus I	MATH 150	4	GE Oral Communication [1C] U	
GE Social and Behavioral Science [4] / American Institutions		3	GE Arts [3A] or Humanities [3B]	
Major Prep: The Aerospace Engineer	A E 123	1	Major Prep: Calculus II	MATH 151
Major Prep: General Chemistry for Engineers	CHEM 202	4	Major Prep: Principles of Physics	PHYS 195
OR			Major Prep: Principles of Physics Laboratory	PHYS 195L
Major Prep: Chemistry	CHEM 200	5	Total Units:	
<i>*CHEM 200 may be accepted to satisfy this requirement.</i>			Cumulative Total:	
Major Prep: Computer-Aided Design	M E 190	2		
Total Units:		17		
Cumulative Total:		17		

Second Year

<u>FALL SEMESTER</u>		<u>SPRING SEMESTER</u>		
Description	Course	Units	Description	Course
GE Arts [3A] or Humanities [3B]		3	GE Social and Behavioral Science [4]	
Major Prep: Statics	A E 200	3	Major Prep: Dynamics	A E 220
OR			OR	
Major Prep: Statics	M E 200	3	Major Prep: Dynamics	M E 220
Major Prep: General Biology	BIOL 100	3	Major Prep: Programming and Numerical Methods	A E 260
in Aerospace				
Major Prep: World of Animals	BIOL 101	3	Major Prep: Methods of Analysis	A E 280
Major Prep: Calculus III	MATH 252	4	Major Prep: Principles of Electrical Engineering	E E 204
Major: Principles of Physics	PHYS 196	3	Total Units:	
Total Units:		16	Cumulative Total:	
Cumulative Total:		50		

Third Year

<u>FALL SEMESTER</u>		<u>SPRING SEMESTER</u>		
Description	Course	Units	Description	Course
Major: Astrodynamics	A E 320	3	GE Ethnic Studies [6] / American Institutions / Ethnic Studies [Graduation Requirement]	
Major: Feedback Flight Control	A E 331	3	Major: Low Speed Aerodynamics	A E 301
Major: Fluid Mechanics	A E 340	3	Major: High Speed Aerodynamics	A E 302
Major: Fluid Mechanics Laboratory	A E 341	1	Major: Experimental Aerodynamics	A E 303
Major: Introduction to Solid Mechanics	CIV E 301	3	Major: Aerospace Structural Mechanics and Materials	A E 310
OR			Total Units:	
Major: Mechanics of Materials	M E 304	3	Cumulative Total:	
Major: Solid Mechanics Laboratory	CIV E 302	1		
Total Units:		14		
Cumulative Total:		79		

Fourth Year

<u>FALL SEMESTER</u>		<u>SPRING SEMESTER</u>		
Description	Course	Units	Description	Course
Major: Aerospace Structural Dynamics	A E 410	3	GE Explorations Arts and Humanities [UD 3] / Cultural Diversity	
Major: Aircraft Propulsion Systems	A E 430	3	Major: Aerospace Engineering Senior Project/ GWAR: Upper Division Writing Course	A E 403W
Major: Aircraft Stability and Control I	A E 440	3	Major: Aerospace Engineering Applications	A E 460B
Major: Aerospace Engineering Applications	A E 460	3	Major Elective Units *	
Total Units:		12	Major Elective Units *	
Cumulative Total:		106	Total Units:	
			Cumulative Total:	
				14
				120

* See University Catalog for list of approved courses.

Other electives may be substituted with consent of the adviser and department chair.

The MAP provides a recommended sequence of courses. Refer to the SDSU General Catalog for a complete description of requirements and credit limitations.