

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	Units
GE English Composition [1A]		3	GE Critical Thinking [1B]		3
Calculus I	MATH 150	4	GE Oral Communication [1C] U		3
GE Social and Behavioral Science [4] / American Institutions		3	GE Arts [3A] or Humanities [3B]		3
Major Prep: The Aerospace Engineer	A E 123	1	Major Prep: Calculus II	MATH 151	4
Major Prep: General Chemistry for Engineers	CHEM 202	4	Major Prep: Principles of Physics	PHYS 195	3
OR			Major Prep: Principles of Physics Laboratory	PHYS 195L	3
Major Prep: Chemistry	CHEM 200	5	Total Units:		17
<i>*CHEM 200 may be accepted to satisfy this requirement.</i>			Cumulative Total:		34
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	Units
GE Arts [3A] or Humanities [3B]		3	GE Social and Behavioral Science [4]		3
Major Prep: Statics	A E 200	3	Major Prep: Dynamics	A E 220	3
OR			OR		
Major Prep: Statics	M E 200	3	Major Prep: Dynamics	M E 220	3
Major Prep: General Biology	BIOL 100	3	Major Prep: Programming and Numerical Methods in Aerospace	A E 260	3
OR			Major Prep: Methods of Analysis	A E 280	3
Major Prep: World of Animals	BIOL 101	3	Major Prep: Principles of Electrical Engineering	E E 204	3
Major Prep: Calculus III	MATH 252	4	Total Units:		15
Major: Principles of Physics	PHYS 196	3	Cumulative Total:		65
Total Units:		16			
Cumulative Total:		50			

Third Year

<u>FALL SEMESTER</u>			<u>SPRING SEMESTER</u>		
Description	Course	Units	Description	Course	Units
Major: Astrodynamics	A E 320	3	GE Ethnic Studies [6] / American Institutions / Ethnic Studies [Graduation Requirement]		3
Major: Feedback Flight Control	A E 331	3	Major: Low Speed Aerodynamics	A E 301	3
Major: Fluid Mechanics	A E 340	3	Major: High Speed Aerodynamics	A E 302	3
Major: Fluid Mechanics Laboratory	A E 341	1	Major: Experimental Aerodynamics	A E 303	2
Major: Introduction to Solid Mechanics	CIV E 301	3	Major: Aerospace Structural Mechanics and Materials	A E 310	4
OR			Total Units:		15
Major: Mechanics of Materials	M E 304	3	Cumulative Total:		94
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	Units
Major: Aerospace Structural Dynamics	A E 410	3	GE Explorations Arts and Humanities [UD 3] / Cultural Diversity		3
Major: Aircraft Propulsion Systems	A E 430	3	Major: Aerospace Engineering Senior Project/ GWAR: Upper Division Writing Course	A E 403W	3
Major: Aircraft Stability and Control I	A E 440	3	Major: Aerospace Engineering Applications	A E 460B	2
Major: Aerospace Engineering Applications	A E 460	3	Major Elective Units *		3
Total Units:		12	Major Elective Units *		3
Cumulative Total:		106	Total Units:		14
			Cumulative Total:		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.