

Bachelor of Science – Aerospace and Aeronautical Engineering Degree Plan (checklist)

2023

Catalog: 2022-2023

Expires: 08/01/2029

Last Name _____

First Name _____ M.I. _____

UTEP ID _____

NOTE: Overall GPA ≥ 2.0 AND In-Major GPA ≥ 2.0 REQUIRED for graduation

A Core Curriculum (45 SCH) (minimum of "C" grade required)		Semester Completed	Final Grade	SCH	Sub #
1 Communication (6 credit hours required)					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
2 Mathematics (4)					
MATH 1411*	Calculus I				
3 Life and Physical Sciences (8)					
CHEM 1305*	General Chemistry				
CHEM 1105*	Laboratory for CHEM 1305				
PHYS 2320*	Introductory Mechanics				
PHYS 2120*	Lab for PHYS 2320				
4 Language, Philosophy, and Culture (3)					
Select and circle one:					
AFST 2300*, CHIC 2302*, ENGL 2311*, 2312*, 2313*, 2314*, 2318*, FREN 2322*, HIST 2301*, 2302*, PHIL 1301*, 2306*, RS 1301*, SPAN 2340*, WS 2300*, 2350*					
5 Creative Arts (3)					
Select and circle one:					
ART 1300*, ARTH 1305*, 1306*, CHIC 1311*, DANC 1304*, FILM 1390*, MUSL 1324*, 1327*, 2321*, THEA 1313*					
6 American History (6)					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
7 Government/Political Science (6) -- all 6 SCH must be completed at the same institution					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
8 Social and Behavioral Sciences (3)					
CE 2326*	Econ. For Engrs & Scientists				
9 Component Area Option (6)					
Take CS 1320 and choose one of the second option					
COMM 1302*	Business/Prof. Communication				
COMM 1301*, CS 1310*, CS 1302*, EL 1301*, LEAD 1300*, SCI 1301*, UNIV 1301*					
B Foundational Math & Science (9 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				

C Science Elective (4 SCH)		Semester Completed	Final Grade	SCH	Sub #
Select and circle one:					
BIOL 1305*+1107*, CHEM 1306*+1106*, PHYS 2321*+2121*					

D Math Elective (3 SCH)		Semester Completed	Final Grade	SCH	Sub #
Select and circle one:					
MATH 3323*, MATH 3335*, MATH 4326*, MATH 4329*, MATH 4336*, STAT 3320*					

SUBSTITUTIONS**				
Sub #	Course on degree plan to substitute	Institution where course was taken	Name of Course as it appears on UTEP Transcript	Course as it appears on UTEP Transcript
1				
2				
3				
4				

E Major: Required Lower Division Courses (23 SCH)		Semester Completed	Final Grade	SCH	Sub #
MECH 1305*	Graphic and Design Fundamentals				
MECH 1321*	Mechanics I-Statics or Statics				
MECH 2103*	Engineering Computations				
MECH 2311*	Introduction to Thermo-Fluid Science				
MECH 2322*	Mechanics of Materials				
MECH 2340*	Mechanics II-Dynamics				
MECH 2342*	Electro Mechanical Systems				
AERO 2131*	Aerospace Materials Lab				
AERO 2331*	Aerospace Materials				

F Major: Required Upper Division Courses (24 SCH)		Semester Completed	Final Grade	SCH	Sub #
AERO 3312	Aerodynamics				
AERO 3323	Aerospace Structures I				
AERO 3343	Aerospace Dynamics and Controls				
MECH 3352	Engineering Analysis II				
AERO 4312	Aircraft Design				
AERO 4322	Propulsion				
MECH 4326	Finite Element Analysis				
AERO 4366	Aerospace Senior Design				

G Laboratory Experience** (2 SCH)		Semester Completed	Final Grade	SCH	Sub #
Select and circle two:					
MECH 3103, 3113 or 3123					

H Math/Science Elective (3 SCH)		Semester Completed	Final Grade	SCH	Sub #
Select and circle one:					
MATH 3323*, MATH 3335*, MATH 4326*, MATH 4329*, MATH 4336*, STAT 3320*, PHYS 2325*, PHYS 3351*, PHYS 4348*					

I Aero Concentration (9 SCH)		Semester Completed	Final Grade	SCH	Sub #
Must take three courses from any single aerospace concentration:					

J Aero Free Elective (6 SCH)		Semester Completed	Final Grade	SCH	Sub #
Must be a course from a different concentration area:					

* -- C or better required
 ** -- From the department approved list of Laboratory Experience courses
 *** Official substitution form available <https://www.utep.edu/engineering/student-resources/student-resources-forms.html>

BSAEAE Total Hours	128
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APPROVALS:	
ADVISOR	DATE
CHAIR	DATE