Bachelor of Science – Mechanical Engineering
Degree Plan (checklist)

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)

Course	Title	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 2420*	Introductory Mechanics				
4 Language, Philosophy, and Culture (3) Select and circle one:					
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*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, 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)					
UNIV 1301* or CS 1310*	Foundations of Engineering or Intro-Computational Thinking				
COMM 1302*	Business/Prof. Communications				

B Foundational Math & Science (9 SCH)

Course	Title	Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				

C Science Elective (4 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
CHEM 1306*+1106*, BIOL 1305*+1107*, PHYS 2421*				

D Math/Science Elective (3 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
BIOL 1306*, PHYS 2325*, PHYS 3351*, MATH 3323*, MATH 3335*, 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 (22 SCH)

Course	Title	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 2331*	Mat'ls and Manufacturing Processes				
MECH 2340*	Mechanics II-Dynamics				
MECH 2342*	Electro Mechanical Systems				

F Design Studio (1 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
MECH 2131*, MECH 2132*, MECH 2133*, MECH 2134*				

G Major: Required Upper Division Courses (21 SCH)

Course	Title	Semester Completed	Final Grade	SCH	Sub #
MECH 3312	Thermodynamics				
MECH 3314	Fluid Mechanics				
MECH 3334	Mechanical Design				
MECH 3345	System Dynamics				
MECH 3352	Engineering Analysis II				
MECH 4315	Heat Transfer				
MECH 4366	Senior Design				

H Lab Experience** (2 SCH)
Select two of the following:

	Semester Completed	Final Grade	SCH	Sub #
MECH 3103, 3113 or 3123				

I Math Elective (3 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
MATH 3323*, MATH 3335*, MATH 4329*, STAT 3320*				

J Electro-Mechanical Design Elective (3 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
MECH 4332, MECH 4334, MECH 4345, MECH 4346, MECH 4393				

K Solid Mechanics Design Elective (3 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
MECH 4336, MECH 4395, MECH 4370				

L Thermal Fluid Design Elective (3 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
MECH 4316, MECH 4394				

M Computational Elective (3 SCH)
Select and circle one:

	Semester Completed	Final Grade	SCH	Sub #
MECH 4326, MECH 4328, MECH 4330, MECH 4392				

N Design Elective Any Area (6 SCH)
Select two from Electro-Mechanical, Solid Mechanics or Thermal Fluid Area

	Semester Completed	Final Grade	SCH	Sub #

* -- C or better required

** -- From the department approved list of Design and Project Experience I and II courses

*** Official substitution form available https://www.utep.edu/engineering/student-resources/student-resources-forms.html

BSME Total Hours	128

APPROVALS:

ADVISOR _____ DATE _____

CHAIR _____ DATE _____