

# Bachelor of Science – Mechanical Engineering Degree Plan (checklist)

2018

Catalog: 2017-2018  
Expires: 08/01/2024

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 #
<b>1 Communication (6 credit hours required)</b>					
RWS 1301*	Rhetoric and Composition I				
RWS 1302*	Rhetoric and Composition II				
<b>2 Mathematics (4)</b>					
MATH 1411*	Calculus I				
<b>3 Life and Physical Sciences (8)</b>					
CHEM 1305*	General Chemistry				
CHEM 1105*	Laboratory for CHEM 1305				
PHYS 2420*	Introductory Mechanics				
<b>4 Language, Philosophy, and Culture (3)</b> 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*					
<b>5 Creative Arts (3)</b> Select and circle one:					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*					
<b>6 American History (6)</b>					
HIST 1301*	History of the U.S. to 1865				
HIST 1302*	History of the U.S. since 1865				
<b>7 Government/Political Science (6) – all 6 SCH must be completed at the same institution</b>					
POLS 2310*	Introduction to Politics				
POLS 2311*	American Govt. & Politics				
<b>8 Social and Behavioral Sciences (3)</b>					
CE 2326*	Econ. For Engrs & Scientists				
<b>9 Component Area Option (6)</b>					
UNIV 1301*	Foundations of Engineering				
COMM 1302*	Business/Profession. Comm.				

B Foundational Math & Science (6 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				

C Science Elective (4 SCH) Select and circle one:		Semester Completed	Final Grade	SCH	Sub #
CHEM 1306*+1106*, BIOL 1305*+1107*, PHYS 2421*					

D Major: Required Lower Division Courses (25 SCH)		Semester Completed	Final Grade	SCH	Sub #
MECH 1305*	Graphic and Design Fundamentals				
MECH 1321*	Mechanics I-Statics				
MECH 2131*	Manufacturing Engineering Lab				
MECH 2311*	Introduction to Thermo-Fluid				
MECH 2322*	Mechanics of Materials				
MECH 2331*	Mat'ls and Manufacturing Processes				
MECH 2340*	Mechanics II-Dynamics				
MECH 2342*	Electro Mechanical Systems				
MECH 2351*	Engineering Analysis 1				

E Major: Required Upper Division Courses (39 SCH)		Semester Completed	Final Grade	SCH	Sub #
MECH 3312	Thermodynamics				
MECH 3313	Thermo-Fluids Lab				
MECH 3314	Fluid Mechanics				
MECH 3323	Solid Mechanics Lab				
MECH 3334	Mechanical Design				
MECH 3345	System Dynamics				
MECH 3352	Engineering Analysis II				
MECH 4315	Heat Transfer				
MECH 4316	Thermal System Design				
MECH 4326	Finite Element Analysis				
MECH 4336	Principles of Engineering Design				
MECH 4346	Mechatronics				
MECH 4366	Senior Design				

F Math/Science Elective (3) **** Select and circle one:		Semester Completed	Final Grade	SCH	Sub #
BIOL 1306*, MATH 2325*, MATH 2326*, MATH 3323*					
MATH 3325*, PHYS 3325*, PHYS 3351*, PHYS 4348*					

G Technical Elective (6 SCH) Select and circle two:		Semester Completed	Final Grade	SCH	Sub #
MECH 3363, 4355,4356, 4368, 4371, 4395					
MECH 3363, 4355,4356, 4368, 4371, 4395					

\* -- C or better required

\*\* -- official substitution form available at <http://engineering.utep.edu/plaza/AcademicForms/index.html>

\*\*\*\* Students must complete 2 courses in the same science (either PHYS, CHEM, or BIOL) to satisfy the Science Sequence. A C or better is required.

<b>BSME Total Hours</b>	<b>128</b>
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SUBSTITUTIONS**				
#	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				

APPROVALS:	
ADVISOR	DATE
CHAIR	DATE