

Bachelor of Science – Industrial and Systems Engineering Degree Plan (checklist)

2019

Catalog: 2018-19
Expires: 08/01/2025

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*	General Chemistry Lab				
PHYS 2420*	Introductory Mechanics				
4 Language, Philosophy, and Culture (3)					
PHIL 2306*	Ethics				
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) Select and circle one:					
CE 2326*	Econ. For Engrs & Scientists				
9 Component Area Option (6)					
UNIV 1301*	Foundations of Engineering				
COMM 1302	Business/Prof. Communications				

B Foundational Math & Science (15 SCH)		Completed	Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				
MATH 3323*	Matrix Algebra				
MATH 4329	Numerical Analysis				

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				

C Major: Required Lower Division Courses (13 SCH)		Semester Completed	Final Grade	SCH	Sub #
MECH 1305*	Graphic and Design Fundamentals				
MECH 2131*	Manufacturing Engineering Lab				
MME 2303* ^a	Introduction to Materials Science				
CE 2315* ^b	Statics				
IE 2377* ^c	Electro-Mechanical Systems				

D Major: Required Upper Division Courses (38 SCH)		Semester Completed	Final Grade	SCH	Sub #
IE 3331	Systems Engineering				
IE 3332	Safety Engineering				
IE 3352	Design of Experiments				
IE 3373*	Engineering Probability & Statistical Models				
IE 3390	Operations Research I				
IE 3477	Methods and Industrial Ergonomics				
IE 4353	Industrial Systems Simulation				
IE 4384	Industrial Layout				
IE 4385	Statistical Quality Control and Reliability				
IE 4390	Probabilistic Operations Research				
IE 4391	Production and Inventory Control				
IE 4466	Senior Design				

E Technical Elective*** (9 SCH) Select and circle the three you chose:		Semester Completed	Final Grade	SCH	Sub #
RWS 3359, IE 4312, 4333, 4371, 4395, 4396, 4397, or any other upper division course from the College of Engineering, College of Science, and College of Business Administration					

NOTES:

- a -- MECH 2331 may be substituted.
- b -- MECH 1321 may be substituted.
- c -- MECH 2342 may be substituted.

* -- C or better required

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

*** -- in addition to provided courses, any upper division course from the College of Engineering or College of Science may be substituted.

BSIE Total Hours	120
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APPROVALS:	
ADVISOR	DATE
CHAIR	DATE