

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

2019

Catalog: 2018-2019

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 #
<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>					
PHYS 2420*	Introductory Mechanics				
PHYS 2421*	Fields and Waves				
<b>4 Language, Philosophy, and Culture (3)</b>					
PHIL 2306*	Ethics				
<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/Prof. Communications				

B Foundational Math & Science (12 SCH)		Semester Completed	Final Grade	SCH	Sub #
MATH 1312*	Calculus II				
MATH 2313*	Calculus III				
MATH 2326*	Differential Equations				
CHEM 1305*	General Chemistry				

C Major: Required Lower Division Courses (24 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 1405*	Fundamentals of Eng. Leadership and Graphics				
EL 1302*	Intro to Eng. Design & Leadership				
EL 2301*	Modeling and Simulation				
MME 2303	Intro to Materials Sci & Engineering				
MME 2434	Mechanics of Materials				
CE 2338	Dynamics				
CE 2377	Electro Mechanical Systems				
MECH 2311	Intro to Thermal Fluid Science				

D Major: Required Upper Division Courses (20 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 3003	Professional Practice I				
EL 3005	Professional Practice II				
EL 3302*	Engineering Measurements				
EL 3304*	Engineering Entrepreneurship: Products to People				
EL 3331*	Engineering Design: People to Products				
EL 3373	Eng. Probability & Statistics Models				
EL 4395*	Capstone Design I: Definition & Exploration				
EL 4396*	Capstone Design II: Development & Evaluation				

E Major: Concentration Courses (12 SCH)		Semester Completed	Final Grade	SCH	Sub #
<b>See advisor for list of concentrations &amp; approved courses within concentration.</b>					

F Upper Division Engineering Technical Elective (9 SCH)		Semester Completed	Final Grade	SCH	Sub #
see advisor for approved courses					

H Upper Division Math/Science Elective (3 SCH)		Semester Completed	Final Grade	SCH	Sub #
See advisor for approved courses					

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				

\* -- C or better required

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

<b>BSEL Total Hours</b>	<b>125</b>
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APPROVALS:	
ADVISOR	DATE
CHAIR	DATE