



	YOUR CLASS SCHEDULE	ACADEMIC ADVISING	ENRICHING EXPERIENCES	LIFELONG SUCCESS
FRESHMAN	<ul style="list-style-type: none"> Register to take classes in this order: UNIV 1301, Foundations of Engineering; MATH 1411; PHYS 2420; then Engineering Leadership and core curriculum courses. 	<ul style="list-style-type: none"> Meet your PREE Advisor and attend the Intro Compliance session during orientation. Declare your Engineering Leadership major once you register for MATH 1411 (Calculus I) or higher. 	<ul style="list-style-type: none"> Explore student organizations at Gold Rush. Experience a new culture with a student exchange program. Network with peers and organize a study group at the Design Studio. Cultivate leadership and teamwork skills at TCM Day. 	<ul style="list-style-type: none"> Discover ACES tutoring resources. Explore internship opportunities at the Career Expo and the Engineering & Science Expo. Learn about UTEP's innovative E-Lead program.
SOPHOMORE	<ul style="list-style-type: none"> Take EL 2301, Engineering Leadership I; CE 2326, Economics for Engineers and Scientists; PHIL 2306, Ethics; and PHYS 2421, if not already completed. Examine the critical path flow chart. 	<ul style="list-style-type: none"> Meet with your PREE Advisor before registration. Discuss your degree plan with your PREE Advisor. Ask your PREE advisor about the Rising Junior Exam. 	<ul style="list-style-type: none"> Join LEAD. Explore professional engagement opportunities with SWE and MAES/SHPE. Discover community involvement opportunities in your field with the Center for Civic Engagement. Strive for high grades to be eligible for induction into Eta Kappa Nu, the Electrical Engineering Honor Society. 	<ul style="list-style-type: none"> Visit the Career Center Satellite to develop a resume and investigate employment opportunities. Cultivate healthy lifestyle habits by visiting the Student Recreation Center.
JUNIOR	<ul style="list-style-type: none"> Focus on your upper division Engineering Leadership classes. Examine the critical path flow chart. 	<ul style="list-style-type: none"> Meet with your Engineering Leadership advisor before registration. Discuss your degree plan with your advisor. Ask about internship opportunities and about preparing for the Fundamentals of Engineering Exam (FE). 	<ul style="list-style-type: none"> Explore unique faculty-led travel opportunities with Engineering Global Programs. Participate in a technical competition such as Steel Bridge, Concrete Canoe, or Mini Baja. Cultivate global awareness at events sponsored by the Office of International Programs. 	<ul style="list-style-type: none"> Ask a Peer Career Advisor about internship opportunities. Revisit the Career Expo and the Engineering & Science Expo. Explore graduate programs in Engineering.
SENIOR	<ul style="list-style-type: none"> Take EL 4395 (Senior Design I) in the Fall. Take EL 4396 (Senior Design II) in the Spring. Complete your major requirements and any remaining electives. 	<ul style="list-style-type: none"> Meet with your Engineering Leadership advisor before registration. Review your graduation audit with the Graduation Coordinator. 	<ul style="list-style-type: none"> Cultivate a leadership role with your student organization. Expand your community engagement efforts by joining the Ninjaneer Service Learning Program. Explore research opportunities with COURI. 	<ul style="list-style-type: none"> Take the Fundamentals of Engineering (FE) Exam. Visit the Career Center Satellite. Examine the MSN Program with a Graduate Advisor for mock interviews and resume review. Apply for graduate school or explore career opportunities.

UPDATED 06/29/18

EDGE ADVANTAGES:

- Leadership
- Problem-solving
- Communication
- Entrepreneurship
- Social Responsibility
- Confidence
- Global Awareness
- Teamwork
- Critical Thinking

CAREER POSSIBILITIES:

- Engineering and technology environments



Bachelor of Science in
ENGINEERING LEADERSHIP
MAJOR MAP CHECKLIST | 2019-2020



Last Name _____

First Name _____ M.I. _____

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

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)					
PHYS 2420*	Introductory Mechanics				
PHYS 2421*	Fields and Waves				
4 Language, Philosophy, and Culture (3)					
PHIL 2306*					
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*	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 #
See advisor for list of concentrations & approved courses within concentration.					

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					

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

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				

BSEL Total Hours 125

APPROVALS:	
ADVISOR	DATE
CHAIR	DATE

Rev. 06-26-2017