Check off all completed

Bachelor of Science – Engineering Innovation and Leadership Degree Plan 2021
Mechanical Engineering Concentration (checklist)

Catalog: 2021-2022

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			3	
RWS 1302*	Rhetoric and Composition II			3	
2 Mathematics (4)					
MATH 1411*	Calculus I			4	
3 Life and Physical Sciences (8)					
PHYS 2420*	Introductory Mechanics			4	
PHYS 2421*	Introductory Electromagnetism			4	
4 Language, Philosophy, and Culture (3)					
PHIL 2306*	Ethics*			3	
5 Creative Arts (3) Circle the one you chose:					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*				3	
6 American History (6)					
HIST 1301*	History of the U.S. to 1865			3	
HIST 1302*	History of the U.S. since 1865			3	
7 Government/Political Science (6)					
POLS 2310*	Introduction to Politics			3	
POLS 2311*	American Govt. & Politics			3	
8 Social and Behavioral Sciences (3)					
CE 2326*	Econ. For Engrs & Scientists			3	
9 Component Area Option (6)					
EL 1301*	Intro to Engr Innov & Lead			3	
CS 1320 *	Comp Programming for Sci/ Engr			3	

B Foundational Math & Science (12 SCH)		Semester Completed	Final Grade	SCH	Sub #
CHEM 1305*	General Chemistry			3	
MATH 1312*	Calculus II			3	
MATH 2313	Calculus III			3	
MATH 2326*	Differential Equations			3	

SUBSTITUTIONS** (add lines as necessary)			
Sub #	Course on degree plan to substitute	Institution where course was taken	Course as it appears on UTEP Transcript
example	EL 1402	other university	ENGR 13TR
1			
2			
3			
4			

C Engineering Leadership Coursework (25 SCH)		Semester Completed	Final Grade	SCH	Sub #
EL 1402	Fundamentals of Eng. Leadership and Graphics			4	
EL 3003	Professional Practice I			0	
EL 3005	Professional Practice II			0	
EL 2301*	Modeling and Simulation			3	
EL 3302*	Engineering Measurements			3	
EL 3331*	Engineering Design: People to Products			3	
EL 3332*	Engineering Design: Products to People			3	
EL 3373[a]	Engineering Probability & Stat. Models			3	
EL 4395*	Capstone Design I: Definition & Exploration			3	
EL 4396*	Capstone Design II: Development & Evaluation			3	

D Mechanical Concentration Required Courses (13 SCH)		Semester Completed	Final Grade	SCH	Sub #
MECH 1321	Mechanics I - Statics			3	
MECH 2311	Intro to Thermal-Fluid Science			3	
MECH 2322	Mechanics of Materials			3	
MECH 2340	Mechanics II - Dynamics			3	
MECH 2103	Engineering Computations			1	

E Major: Emphasis Courses (15 SCH) for Mechanical Concentration		Semester Completed	Final Grade	SCH	Sub #

F Mechanical Technical Electives(12 SCH) see advisor for approved courses		Semester Completed	Final Grade	SCH	Sub #
MECH					
MECH 3312	Thermodynamics				
MECH 3354	Fluid Mechanics				
MECH 4315	Heat Transfer				

H Upper Division Math/Science Elective (3 SCH) See advisor for approved courses		Semester Completed	Final Grade	SCH	Sub #
MATH 3323	Matrix Algebra			3	

Total Hours	125

NOTES:

* -- C or better required

** -- requires submission of official substitution form.

a -- IE 3373 may be substituted.

APPROVALS:	
ADVISOR	DATE
CHAIR	DATE

Fill in courses through graduation
You do not have to use all years; only those you need

See semester breakdown for guide

The University of Texas at El Paso
Department of Engineering Education and Leadership
Phone: (915) 747-8427 || eel.utep.edu

Semester Breakdown

Year	*subject number*		Fall Semester	Hrs.			Spring Semester	Hrs.			Summer Semester	Hrs.
ONE												
			Total Semester Hours				**Total Semester Hours**				**Total Semester Hours**	
TWO												
			Total Semester Hours				**Total Semester Hours**				**Total Semester Hours**	
THREE												
			Total Semester Hours				**Total Semester Hours**				**Total Semester Hours**	
FOUR												
			Total Semester Hours				**Total Semester Hours**				**Total Semester Hours**	
FIVE												
			Total Semester Hours				**Total Semester Hours**				**Total Semester Hours**	

Total 125 Credit Hrs.

Notes: _____

_____

_____

E-Lead Advising Form

Engineering Innovation and Leadership

(915) 747-8427 | eelfrontdesk@utep.edu | Engineering Building, Room E-230

Student Name:	
UTEP ID#	
UTEP email:	
Cell Phone #:	

Status:	Intended Concentration:	Priorities / Time Commitments:
☐ Freshman	☐ Engineering Innovation	_____ School Hours (in class)
☐ Sophomore	☐ Biomedical Engineering (BME)	_____ Study Hours (out of class)
☐ Junior	☐ Civil Engineering (CE)	_____ Work Hours
☐ Senior	☐ Computer Science (CS)	_____ Other
☐ Transfer Student, from EPCC	☐ Electrical Engineering (EE)	Explanation:
	■ Mechanical Engineering	
	☐ Metallurgical & Materials Engineering (MME)	

RECOMMENDED COURSES *(the courses you plan to take this semester)*

Notes	Subject	Course #	CRN	Course Title/ Description/ Notes	Term
EXAMPLE	*MATH*	*1508*	*12345*	*Calculus ---------- EXAMPLE*	*Fall 2019*
EXAMPLE	*UNIV*	*1301*	*54321*	*Foundation of Engineering ----- EXAMPLE*	*Fall 2019*
FOCUS OF MAJOR EMPHASIS COURSES					

Advisor Comments:

Trasnfer Credit = TC
AP Credit = AP

OFFICE USE ONLY

APPROVAL: Advisor: Date: Signature:	☐ LD Advising Hold Removed: _____ ☐ Other Hold Removed: Registered By _____

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