

# Bachelor of Science – Engineering Innovation and Leadership Degree Plan -Metallurgical and Materials Concentration (checklist)

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	Sub SCH	Sub #
<b>1 Communication (6 credit hours required)</b>					
RWS 1301*	Rhetoric and Composition I			3	
RWS 1302*	Rhetoric and Composition II			3	
<b>2 Mathematics (4)</b>					
MATH 1411*	Calculus I			4	
<b>3 Life and Physical Sciences (8)</b>					
PHYS 2420*	Introductory Mechanics			4	
PHYS 2421*	Introductory Electromagnetism			4	
<b>4 Language, Philosophy, and Culture (3)</b>					
PHIL 2306*	Ethics*			3	
<b>5 Creative Arts (3) Circle the one you chose:</b>					
ART 1300*, ARTH 1305*, 1306*, DANC 1304*, FILM 1390*, MUSL 1321*, 1324*, 1327*, THEA 1313*				3	
<b>6 American History (6)</b>					
HIST 1301*	History of the U.S. to 1865			3	
HIST 1302*	History of the U.S. since 1865			3	
<b>7 Government/Political Science (6)</b>					
POLS 2310*	Introduction to Politics			3	
POLS 2311*	American Govt. & Politics			3	
<b>8 Social and Behavioral Sciences (3)</b>					
CE 2326*	Econ. For Engrs & Scientists			3	
<b>9 Component Area Option (6)</b>					
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	Sub 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	Sub 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 <sup>a</sup>	Engineering Probability & Stat. Models			3	
EL 4395*	Capstone Design I: Definition & Exploration			3	
EL 4396*	Capstone Design II: Development & Evaluation			3	

D MME Concentration (13 SCH)		Semester Completed	Final Grade	Sub SCH	Sub #
CE 2377	Electro Mechanical Systems			3	
MME 2303	Intro to Materials Sci & Engrg			3	
MME 2434	Mechanics of Materials			4	
MME 4316	Failure Analysis			3	

E Emphasis Courses (15 SCH) for MME Concentration		Semester Completed	Final Grade	Sub SCH	Sub #

F MME Technical Electives(12 SCH) see advisor for approved courses		Semester Completed	Final Grade	Sub SCH	Sub #
				3	
				3	
				3	
				3	

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

<b>Total Hours</b>	<b>125</b>
--------------------	------------

**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			
TWO							
Total Semester Hours				Total Semester Hours			
THREE							
Total Semester Hours				Total Semester Hours			
FOUR							
Total Semester Hours				Total Semester Hours			
FIVE							
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 #:	

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

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

Notes	Subject	Course #	CRN	Course Title/ Description/ Notes	Term
<i>EXAMPLE</i>	<i>MATH</i>	<i>1508</i>	<i>12345</i>	<i>Calculus ----- EXAMPLE</i>	<i>Fall 2019</i>
<i>EXAMPLE</i>	<i>UNIV</i>	<i>1301</i>	<i>54321</i>	<i>Foundation of Engineering ----- EXAMPLE</i>	<i>Fall 2019</i>

**FOCUS OF MAJOR EMPHASIS COURSES**


Advisor Comments:

Transfer Credit = TC  
 AP Credit = AP

**OFFICE USE ONLY**

<u>APPROVAL:</u> Advisor: Date: Signature:	<input type="checkbox"/> LD Advising Hold Removed: _____ <input type="checkbox"/> Other Hold Removed: Registered By _____
---	---