## West Texas A&M University Advising Services Degree Checklist 2021-2022

(For assistance completing this form, contact Advising Services at 806-651-5300)

NAME:

WT ID:

DATE:\_\_\_\_

## Mechanical Engineering (see ℯ note below) College of Engineering ECS Building, Room 119, 651-5257

ECS Building, Room 119 651-5257				
CORE CURRICULUM COURSES: 42 HOURS +	HRS			
Communication (10)				
ENGL 1301 Introduction to Academic Writing and Argumentation	3			
COMM 1315, 1318, or 1321	3			
Mathematics (20)				
See University Core Requirements below	(3)			
Life and Physical Sciences (30) See University Core Requirements below	(6)			
Language, Philosophy and Culture (40)	(0)	<u> </u>		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIS 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311, 2312*/**, 2313, 2315*, or 2371 Choose	3			
Creative Arts (50)		r		
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (fo music majors), 1310; or THRE 1310 Choose				
American History (60)	-	<u> </u>		
HIST 1301, 1302, 2301, 2381, 2382 Choose	2 6			
Government/Political Science (70)				
POSC 2305 and 2306	6			
Social and Behavioral Sciences (80)				
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 Choose				
Component Area Option (90)				
See University Core Requirements below	(6)			
<ul> <li>A grade of "C" or better must be earned in all courses required for majo</li> <li>A grade of "C" or better is mandatory for all prerequisites listed for ECS required for MENG majors.</li> </ul>		s		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS +	-	1		
CORE 20 MATH 2413*[3] Calculus I PM	<b>E</b> 3			
CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II PM	6			
CORE 90 ENGL 2311* Introduction to Professional and Technical Communication	3			
<u>CORE 90</u> MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1]	3			
MECHANICAL ENGINEERING REQUIREMENTS: 80 HO	URS			
ENGR 1171* Engineering Ethics	1			
ENGR 1301*,1301L Fundamentals of Engineering PM	<b>E</b> 3			
ENGR 1304 (125), 1304L Engineering Graphics	3			
ENGR 1375*, 1375L Principles of DC and AC Circuits	3			
ENGR 2301* Engineering Statics PM	_			
ENGR 2302* Engineering Dynamics PM	_			
ENGR 2332* Mechanics of Materials I ENGR 3202* Fundamentals of Engineering Economics	3			
ENGR 3202 Fundamentals of Engineering Economics	3			
MENG 3320* Engineering Thermodynamics	3			
		I		

## Bachelor of Science Degree BS.MECH.ENGR (129) PRE.ENG.MECH (128)

MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	122	
CS, ENGR, ET, CENG, EVEG OR MENG ELECTIVE***	3	
Take two courses from: MATH 3311* Linear Algebra MATH 3343* Differential Equations II MATH 4340* Complex Variables I MATH 4341* Advanced Calculus MATH 4361* Statistics for the Sciences MATH 4362* Introduction to Numerical Analysis PHYS 3310* Modern Physics I PHYS 4310* Modern Physics II PHYS 4330* Optics	6	
MENG ELECTIVE	3	
MENG ELECTIVE	3	
MATH 3342* Differential Equations I	3	
MATH 3340* Calculus III	3	
MATH 2414* Calculus II PME	4	
ET 2371* 2371L Materials and Fabrication/Metals and Ceramics	3	
CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Prog. PME	3	
CHEM 1411*, 1411L Chemistry I	4	
MENG 4380* Mechanical Engineering Design	3	
MENG 4360* Heat Transfer	3	
MENG 4352* Thermal-Fluid System Design	3	
MENG 4350* Advanced Mechanics and Design	3	
MENG 4330* Mechanical Vibration & Control Theory	3	
MENG 4304* Fundamentals of Fluid Mechanics	3	

MINIMUM HOURS REQUIRED TO COMPLETE DEGREE 122

Ar Mechanical Engineering Program admission requirements (PME): overall GPA of at least 2.25; completion of the pre-engineering sequence (MATH 2413, 2414, PHYS 2425, 2426, ENGR 1301, 2301, 2302 and CS 1315 or 1337) with a GPA of at least 2.75; and successful completion of the entrance interview with a department adviser.

◆ The core curriculum must total **exactly 42 hours**; excess hours must be moved to the major as an elective or a major requirement and stay within the 120-hour requirement or approved total submitted to the Coordinating Board for degree requirements. Some majors specify particular courses to meet core curriculum requirements when options are available.

\* Indicates prerequisites—see catalog for more information.

\*\* Or an equivalent course (second year, second semester) in a foreign language. \*\*\* Cannot repeat course content required elsewhere.

NOTE: At least 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

NOTE: This is NOT a degree plan. All undergraduate students must request an

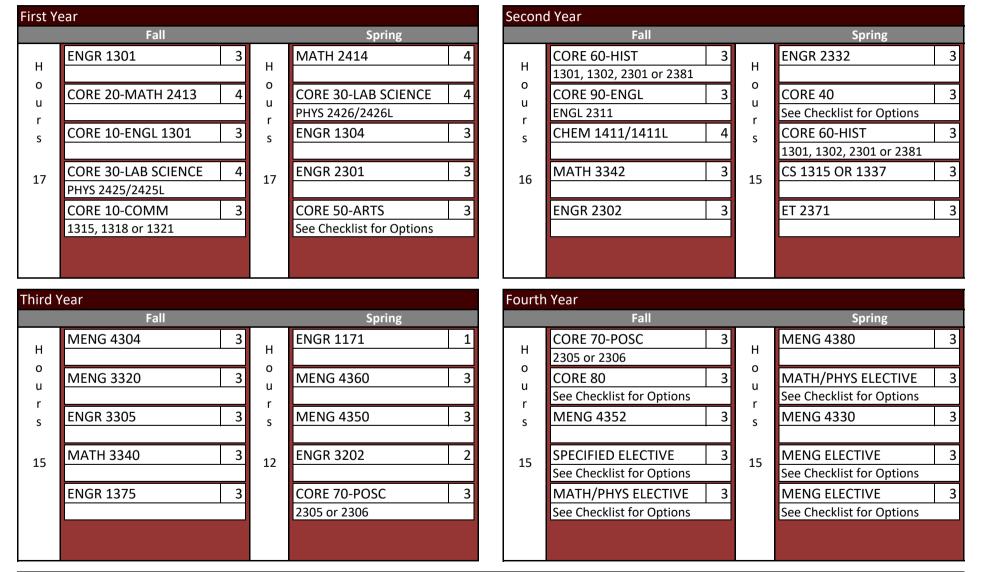
official degree plan from their academic dean's office by the time they have completed 30 credit hours.

Advising Services
Advising Services
Mechanical Engineering
Engineering and Computer Science
Bachelor of Science Degree
BS.MECH.ENGR

ECS 119 651-5257

Degree Plan Total Hours: 122

Major Code: 129



DISCLAIMER: This curriculum guide should be used in conjunction with the corresponding degree checklist for general planning purposes only. The degree checklist (later a student's official degree plan) should be referred to as the comprehensive list of all courses required for the degree. An official degree plan is required after completing 45 hours. Students should always seek the advice of their academic adviser before scheduling classes.