West Texas A&M University	
Advising Services	
Degree Checklist	
2019-2020	
was seven lating this forms, southast Advising Complete at 200	

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

NAME:

WT ID:_____ DATE:____

Mechanical Engineering (see & note below) School of Engineering, Computer Science and Mathematics

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)		(0)	ī		
See University Core Requirements below Language, Philosophy and Culture (40)		(6)			
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; H 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*, or 2371 Choo	N	3			
Creative Arts (50)			1		
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUS 1307, MUSI 1310; or THRE 1310 Choo		3			
American History (60)					
HIST 1301, 1302, 2301, 2381 Choo	se 2	6			
Government/Political Science (70)					
POSC 2305 and 2306		6			
Social and Behavioral Sciences (80)					
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 230 PSYC 2301; SOCI 1301 Choc		3			
Component Area Option (90)					
See University Core Requirements below		(6)			
A grade of "C" or better must be earned in all courses required for major. A grade of "C" or better is mandatory for all prerequisites listed for ECSM courses required for MENG majors.					
UNIVERSITY CORE REQUIREMENTS: 15 HOURS +					
<u>CORE 20</u>	PME	3			
CORE 20 MATH 2413*[3] Calculus I CORE 30 PHYS 2425*[3] Calculus Physics I AND	PME	3			
CORE 20 MATH 2413*[3] Calculus I CORE 30 PHYS 2425*[3] Calculus Physics I AND		-			
CORE 20 MATH 2413*[3] Calculus I CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II I CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90		6			
CORE 20 MATH 2413*[3] Calculus I I CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II I CORE 90 ENGL 2311* Introduction to Professional and Technical Communication Communication		6			
CORE 20 MATH 2413*[3] Calculus I CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II I CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 CORE 90	PME	6 3 3			
CORE 20 MATH 2413*[3] Calculus I CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II I CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1]	PME	6 3 3			
CORE 20 MATH 2413*[3] Calculus I MATH 2413*[3] Calculus Physics I AND PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1] MECHANICAL ENGINEERING REQUIREMENTS: 80 H ENGR 1171* Engineering Ethics	PME	6 3 3 S			
CORE 20 MATH 2413*[3] Calculus I MATH 2413*[3] Calculus Physics I AND PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1] MECHANICAL ENGINEERING REQUIREMENTS: 80 H ENGR 1171* Engineering Ethics	PME	6 3 3 S 1			
CORE 20 MATH 2413*[3] Calculus I CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1] MECHANICAL ENGINEERING REQUIREMENTS: 80 H ENGR 1171* Engineering Ethics ENGR 1301*,1301L Fundamentals of Engineering	PME	6 3 3 S 1 3			
CORE 20 MATH 2413*[3] Calculus I I CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II I CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1] MECHANICAL ENGINEERING REQUIREMENTS: 80 H ENGR 1171* Engineering Ethics ENGR 1301*,1301L Fundamentals of Engineering ENGR 1304 (125), 1304L Engineering Graphics ENGR 1375*, 1375L Principles of DC and AC Circuits	PME	6 3 3 S 1 3 3 3			
CORE 20 MATH 2413*[3] Calculus I I CORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II I CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1] MECHANICAL ENGINEERING REQUIREMENTS: 80 H ENGR 1171* Engineering Ethics ENGR 1301*,1301L Fundamentals of Engineering ENGR 1304 (125), 1304L Engineering Graphics I ENGR 1375*, 1375L Principles of DC and AC Circuits I ENGR 2301* Engineering Statics I	HOUR	6 3 3 S 1 3 3 3 3			
CORE 20 MATH 2413*[3] Calculus I MATH 2413*[3] Calculus Physics I AND PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics II CORE 30 PHYS 2426*[3] Calculus Physics II CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1] MECHANICAL ENGINEERING REQUIREMENTS: 80 H ENGR 1171* Engineering Ethics ENGR 1301*,1301L Fundamentals of Engineering ENGR 1304 (125), 1304L Engineering Graphics ENGR 1375*, 1375L Principles of DC and AC Circuits ENGR 2301* Engineering Statics	PME	6 3 3 5 5 7 3 3 3 3 3 3			
CORE 20 MATH 2413*[3] Calculus ICORE 30 PHYS 2425*[3] Calculus Physics I AND PHYS 2426*[3] Calculus Physics IICORE 90 ENGL 2311* Introduction to Professional and Technical CommunicationCORE 90 MATH 2413[1]; PHYS 2425L[1], PHYS 2426L[1]MECHANICAL ENGINEERING REQUIREMENTS: 80 HENGR 1171* Engineering EthicsENGR 1301*,1301L Fundamentals of Engineering ENGR 1304 (125), 1304L Engineering GraphicsENGR 1375*, 1375L Principles of DC and AC CircuitsENGR 2302* Engineering Dynamics	PME	6 3 3 3 5 5 7 3 3 3 3 3 3 3			

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

MENG 3320* Engineering Thermodynamics	3	
MENG 4304* Fundamentals of Fluid Mechanics	3	
MENG 4330* Mechanical Vibration & Control Theory	3	
MENG 4350* Advanced Mechanics and Design	3	
MENG 4352* Thermal-Fluid System Design	3	
MENG 4360* Heat Transfer	3	
MENG 4380* Mechanical Engineering Design	3	
CHEM 1411*, 1411L Chemistry I	4	
CS 1315* Programming Fundamentals OR CS 1337, 1337L Intro. to Object-Oriented Prog. PME	3	
ET 2371* 2371L Materials and Fabrication/Metals and Ceramics	3	
MATH 2414* Calculus II PME	4	
MATH 3340* Calculus III	3	
MATH 3342* Differential Equations I	3	
MENG ELECTIVE	3	
MENG ELECTIVE	3	
Take two courses from:MATH 3311* Linear AlgebraMATH 3343* Differential Equations IIMATH 4340* Complex Variables IMATH 4341* Advanced CalculusMATH 4361* Statistics for the SciencesMATH 4362* Introduction to Numerical AnalysisPHYS 3310* Modern Physics IPHYS 4310* Modern Physics IIPHYS 4330* Optics	6	
CS, ENGR, ET, CENG, EVEG OR MENG ELECTIVE***	3	
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE	122	
A Mechanical Engineering Program admission requirements (PM		arall

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 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU; 30 of the final 36 hours counted toward the degree must be earned at WTAMU. A maximum of six semester hours in religion (RELI) and a maximum of six semester hours in physical education (PHED) courses can count toward a baccalaureate degree.

NOTE: This is NOT a degree plan. After completing 30 hours, students are encouraged to request an official degree plan by using the online Degree Plan Request form. The dean's office of the School of Engineering, Computer Science and Mathematics, located in the Engineering and Computer Science Building, Room 119 (or call 806-651-5257), can answer questions about the degree plan. Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.

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.