West Texas A&M University Advising Services Degree Checklist 2017-2018

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

NAME:	WT ID:	DATE:
-------	--------	-------

Electrical Engineering (see & note below) School of Engineering, Computer Science & 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)					
See University Core Requirements below	(6)	·			
Language, Philosophy and Culture (40)					
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*, or 2371 Choose 1	3				
Creative Arts (50)					
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310 Choose 1	3				
American History (60)	_ 1	<u> </u>			
HIST 1301, 1302, 2301, 2381	6				
POSC 2305 and 2306	6				
Social and Behavioral Sciences (80)					
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302;					
PSYC 2301; SOCI 1301 Choose 1	3				
Component Area Option (90)	(5)	i -			
See University Core Requirements below	(6)				
ELECTRICAL ENGINEERING MAJOR REQUIREMENTS: 93 HOURS A grade of "C" or better must be earned in all courses required for major. A grade of "C" or better is required for all prerequisites listed for ECSM courses required for EENG majors.					
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆					
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦ CORE 20 MATH 2413*[3] Calculus I PEEN	3				
CORE 20	3				
CORE 20 MATH 2413*[3] Calculus I CORE 30					
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30	3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I CORE 90 ENGL 2311* Introduction to Professional and Technical	3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I PEEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90	3 3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1]	3 3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS	3 3 3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS ENGR 1171* Engineering Ethics	3 3 3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I PEEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS ENGR 1301*,1301L Fundamentals of Engineering PEEN	3 3 3 1 3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I ENGR 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS ENGR 1301*,1301L Fundamentals of Engineering PEEN ENGR 1375*, 1375L Principles of DC & AC Circuits PEEN	3 3 3 3 1 3 3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS ENGR 1171* Engineering Ethics ENGR 1301*,1301L Fundamentals of Engineering ENGR 1375*, 1375L Principles of DC & AC Circuits ENGR 2350* Intro. of Electronic Devices & Circuits PEEN	3 3 3 3 3 3 3				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I PEEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS ENGR 1301*,1301L Fundamentals of Engineering PEEN ENGR 1375*, 1375L Principles of DC & AC Circuits PEEN ENGR 3202* Fundamentals of Engineering Economics	3 3 3 3 1 3 3 3 2				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS ENGR 1171* Engineering Ethics ENGR 1301*,1301L Fundamentals of Engineering PEEN ENGR 1375*, 1375L Principles of DC & AC Circuits PEEN ENGR 3202* Fundamentals of Engineering Economics CS 1315* Programming Fundamentals PEEN	3 3 3 3 1 3 3 3 2				
CORE 20 MATH 2413*[3] Calculus I CORE 30 CHEM 1411*[3], Chemistry I CORE 30 PHYS 2425*[3] Calculus Physics I PEEN CORE 90 ENGL 2311* Introduction to Professional and Technical Communication CORE 90 MATH 2413[1]; CHEM 1411L[1]; PHYS 2425L[1] ENGINEERING CORE CURRICULUM: 15 HOURS ENGR 1301*,1301L Fundamentals of Engineering PEEN ENGR 1375*, 1375L Principles of DC & AC Circuits PEEN ENGR 3202* Fundamentals of Engineering Economics CS 1315* Programming Fundamentals MAJOR REQUIREMENTS: 40 HOURS	3 3 3 3 3 3 2 3				

Bachelor of Science Degree Engineering and Computer Science BS.EENG (840)

Pre-Engineering: PRE.ENGR (128) (see 🛩 belo	w)	
EENG 3334* Circuits II	3	
EENG 3340* Electronics I	3	
EENG 3355* Control Systems	3	
EENG 3360* Energy Systems and Power Electronics	3	
EENG 4370* Electrical Power Devices	3	
EENG 4371* Power System Analysis	3	
EENG 4372* Power Electronics and Power Management		
EENG 4373* Electrical Machinery		
EENG 4380* Senior Design I		
EENG 4381* Senior Design II		
MATH AND SCIENCE REQUIREMENTS: 20 HOURS		
PHYS 2426*, PHYS 2426L Calculus Physics II PEEN	4	
MATH 2414* Calculus II PEEN	4	
MATH 3340* Calculus III	3	
MATH 3342* Differential Equations I	3	
MATH 3311* Linear Algebra	3	
PHYS 3340* Electricity and Magnetism I	3	
ELECTRICAL ENGINEERING ELECTIVES: 6 HOURS		
Take six hours from: EENG 3341* Electromagnetic Fields and Waves EENG 3352* Properties of Electronic Materials EENG 3354* VLSI Design EENG 3375* Signals and Systems II EENG 4363* Electrical Power Plants	6	
GENERAL ELECTIVE: 3 HOURS		
Talana alastra a OO ENOD ET OFNO EFNO EVEO		
Take one elective in CS, ENGR, ET, CENG, EENG, EVEG or MENG.	3	

& Electrical Engineering Program admission requirements (PEEN): overall GPA of at least 2.25; completion of the pre-engineering sequence (MATH 2413, 2414, PHYS 2425, 2426, ENGR 1301, CS 1315, ENGR 1375, EENG 2350) with a GPA of at least 2.75; and successful completion of the entrance interview with a department

- ◆ 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.