## West Texas A&M University Advising Services Degree Checklist 2019-2020

This symbol indicates courses that apply towards degree programs at WT. All core classes are offered at CC. Please refer to the list regarding major specific courses. Course prefixes and numbers may vary at each institution. Please contact an adviser to ensure the course will apply towards chosen core area.

NAME:	WT ID:	DATE:	

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

ECS Building, Room 119 651-5257

CORE CURRICULUM COURSES: 42 HOURS ◆		HRS	C	C
Communication (10)				
ENGL 1301 Introduction to Academic Writing and Argumentation		3		
COMM 1315, 1318, or 1321		3		
Mathematics (20)		_		
See University Core Requirements below  Life and Physical Sciences (30)		(3)		
See University Core Requirements below		(6)		
Language, Philosophy and Culture (40)		(0)		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; H 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN		3		
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUS 1307, MUSI 1310; or THRE 1310 Choo		3		
American History (60)	T	_		
HIST 1301, 1302, 2301, 2381 Choo Government/Political Science (70)	se 2	6		
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 m     A grade of "C" or better must be earned in all courses required for m     A grade of "C" or better in sequence for all present productions in the product of the C".	najor.			
A grade of "C" or better is required for all prerequisites listed for EC for EENG majors.	SM cou	rses r	equir	ed
for EENG majors.  UNIVERSITY CORE REQUIREMENTS: 15 HOURS •	SM cou	rses re	equir	ed
for EENG majors.  UNIVERSITY CORE REQUIREMENTS: 15 HOURS   CORE 20 MATH 2413*[3] Calculus I		3	equir	ed
for EENG majors.  UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦			equir	red
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UNIVERSITY CORE REQUIREMENTS: 15 HOURS   CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  CORE 90 ENGL 2311* Introduction to Professional and Technical Communication  CORE 90  CORE 90	PEEN	3 3 3	equir	red
CORE 30 PHYS 2425*[3] Calculus Physics I  CORE 90 ENGL 2311* Introduction to Professional and Technical Communication  CORE 90 MATH 2413[1]; CHEM 1411L[1], PHYS 2425L[1]	PEEN	3 3 3	equir	red
UNIVERSITY CORE REQUIREMENTS: 15 HOURS +  CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  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 1171* Engineering Ethics	PEEN	3 3 3 3	equir	red
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆  CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  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 1171* Engineering Ethics  ENGR 1301*,1301L Fundamentals of Engineering	PEEN	3 3 3 3	equir	red
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆  CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  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 1171* Engineering Ethics  ENGR 1301*,1301L Fundamentals of Engineering	PEEN	3 3 3 3	equir	red
UNIVERSITY CORE REQUIREMENTS: 15 HOURS   CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  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 ENGR 1375*, 1375L Principles of DC & AC Circuits	PEEN	3 3 3 3 1 3 3	equir	red
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆  CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  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 1171* Engineering Ethics ENGR 1301*,1301L Fundamentals of Engineering ENGR 1375*, 1375L Principles of DC & AC Circuits F ENGR 2350* Intro. of Electronic Devices & Circuits F ENGR 3202* Fundamentals of Engineering Economics	PEEN	3 3 3 3 1 3 3 3	equir	red
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ◆  CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  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 1171* Engineering Ethics  ENGR 1301*,1301L Fundamentals of Engineering ENGR 1375*, 1375L Principles of DC & AC Circuits  ENGR 2350* Intro. of Electronic Devices & Circuits  ENGR 3202* Fundamentals of Engineering Economics	PEEN PEEN PEEN PEEN	3 3 3 3 3 3 3 3 2	equir	red
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UNIVERSITY CORE REQUIREMENTS: 15 HOURS +  CORE 20 MATH 2413*[3] Calculus I  CORE 30 CHEM 1411*, 1411L Chemistry I  CORE 30 PHYS 2425*[3] Calculus Physics I  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 1371* Engineering Ethics  ENGR 1375*, 1375L Principles of DC & AC Circuits ENGR 2350* Intro. of Electronic Devices & Circuits ENGR 3202* Fundamentals of Engineering Economics  CS 1315* Programming Fundamentals  MAJOR REQUIREMENTS: 39 HOURS	PEEN PEEN PEEN PEEN	3 3 3 3 1 3 3 3 2 3	equir	red

## Bachelor of Science Degree BS.EENG (840)

Pre-Engineering: PRE.ENGR (128) (see ← below)

EENG 3334* Circuits II							
EENG 3340* Electronics I							
EENG 3355* Control Systems							
EENG 3360* Electromechanical Systems							
EENG 4370* Electrical Power Devices							
EENG 4371* Power System Analysis							
EENG 4372* Power Electronics and Power Management							
EENG 4373* Electrical Machinery							
EENG 4374* Electrical and Electronics Circuits Design							
EENG 4380* Senior Design							
MATH AND SCIENCE REQUIREMENTS: 20 HOURS							
PHYS 2426*, PHYS 2426L Calculus Physics II CC PEEN	4						
MATH 2414* Calculus II CC PEEN	4						
MATH 3340* Calculus III	3						
MATH 3342* Differential Equations I	3						
MATH 3311* Linear Algebra	3						
PHYS 3340* Electricity and Magnetism I							
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							
Take one elective in CS, ENGR, ET, CENG, EENG, EVEG or MENG.			,				
MINIMUM HOURS REQUIRED TO COMPLETE DEGREE							
& Electrical Engineering Program admission requirements (PEEN	1. 0./0.	- اا C	DA				

← 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, ENGR 2350) 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 <u>Degree Plan Request</u> 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.

