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

CC 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:**_____

Physics
Chemistry and Physics
Chemistry and Physics Bldg. (301 26th St.) (806)651-2940

Bachelor of Science Degree
BS.PHYSICS.TPC (138)

CORE CURRICULUM COURSES: 42 HOURS ♦	HRS	CC
Communication (Code 10)		
ENGL 1301 Introduction to Academic Writing and Argumentation	3	
COMM 1315, 1318, or 1321	3	
Mathematics (Code 20)		
See **University Core Requirements** below	(3)	
Life and Physical Sciences (Code 30)		
See **University Core Requirements** below	(6)	
Language, Philosophy and Culture (Code 40)		
ANTH 2351, ENGL 2321*, 2326*, 2331*, 2341*, 2343*; HIST 2311, 2323, 2372; MCOM 1307; PHIL 1301, 2374; SPAN 2311*, 2312*/**, 2313*, 2315*, or 2371 **Choose 1**	3	
Creative Arts (Code 50)		
ARTS 1303, ARTS 1304; DANC 2303; MUSI 1306, MUSI 1307, MUSI 1310; or THRE 1310 **Choose 1**	3	
American History (Code 60)		
HIST 1301, 1302, 2301, 2381 **Choose 2**	6	
Government/Political Science (Code 70)		
POSC 2305 and 2306	6	
Social and Behavioral Sciences (Code 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; PSYC 2301; SOCI 1301 **Choose 1**	3	
Component Area Option (Code 90)		
See **University Core Requirements** below	(6)	
PHYSICS MAJOR REQUIREMENTS: 64-68 HOURS **A grade of "C" or better must be earned in all courses required for major.**		
UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦		
CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] CC	3	
CORE 30 PHYS 2425*[3] Calculus Physics I CC	3	
CORE 30 PHYS 2426*[3] Calculus Physics II CC	3	
CORE 90 ENGL 1302* Research and Rhetoric **OR** CC ENGL 2311* Introduction to Professional and Technical Communication	3	
CORE 90 PHYS 2425L[1], 2426L[1] **AND** IDS 1071[1], MATH 2412[1], or 2413[1] CC	3	
PHYSICS REQUIREMENTS: 49-53 HOURS		
PHYS 3310* Modern Physics I	3	
PHYS 3320* Thermodynamics	3	
PHYS 3330* Mechanics I	3	
PHYS 3340* Electricity and Magnetism I	3	
PHYS 3350* Advanced Physics Laboratory	3	
PHYS 4320* Quantum Mechanics I	3	
PHYS 4360* Nuclear Physics	3	
PHYS 4340* Mathematical Methods	3	
PHYS 4197* Research in Physics	1	
PHYS 4103* Seminar in Physics	1	
MATH 1316* Plane Trigonometry **OR** CC MATH 2412* Pre-Calculus **(if not taken to satisfy Core 20)**	0-4	
MATH 2413* Calculus I CC	4	
MATH 2414* Calculus II CC	4	
MATH 3340* Calculus III CC	3	
MATH 3342* Differential Equations I CC	3	
CS 1315* Programming Fundamentals **OR** CS 1337 Introduction to Object-Oriented Programming	3	
Take six hours from: PHYS 3323* Medical Imaging Physics PHYS 3380* Astrophysics PHYS 4310* Modern Physics II PHYS 4350* Computational Physics PHYS 4330* Optics PHYS 4390* Solid State Physics	6	
BACHELOR OF SCIENCE REQUIREMENTS **Covered by requirements for major.**	**OPTION**	
ELECTIVES **At least one hour must be advanced.**		
18 HOURS BY ADVISEMENT	18	
GENERAL ELECTIVES ELECTIVES should be in a support field. MATH 3311 and 3321,CHEM 1411, 1412 are recommended.	7-12	
MINIMUM HRS REQUIRED TO COMPLETE DEGREE	**120**	

♦ NOTE: 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.

NOTE: At least 39 hours of advanced work (3000- or 4000-level courses) for which tuition is paid must be earned at WTAMU, and 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 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 required to request an official degree plan by using the online Degree Plan Request form. Students who have questions about their degree plan should contact the office of the dean of the Paul Engler College of Agriculture and Natural Sciences, which is located in the Happy State Bank Academic & Research Building, Suite 262 (phone 806-651-3570). Students who have completed 30 hours will not be allowed to progress without requesting a degree plan.

Advising Services

Physics
Chemistry and Physics
Bachelor of Science Degree
BS.PHYSICS.TPC

2019 - 2020 Curriculum Guide

301 26th 651-2940

Degree Plan Total Hours: 120 Major Code: 138

First Year

Fall		Hours	Spring	
CORE 10-ENGL 1301	3	13	CORE 90-ENGL 1302 or 2311	3
CORE 20-MATH 1314	3		CORE 20-MATH 1316 or 2412**	3
CORE 40 See Checklist for Options	3		CORE 10-COMM 1315, 1318, or 1321	3
CORE 60-HIST 1301, 1302, 2301, or 2381	3		CORE 60-HIST 1301, 1302, 2301, or 2381	3
CORE 90-IDS 1071*	1		CORE 50-ARTS See Checklist for Options	3

Second Year

Fall		Hours	Spring	
CORE 20-MATH 2413	4	18	CORE 20-MATH 2414	4
PHYS 2425/2425L	4		PHYS 2426/2426L	4
CORE 70-POSC 2305 or 2306	3		CORE 70-POSC 2305 or 2306	3
CORE 80 See Checklist for Options	3		CS 1315 OR CS 1337	3
DIRECTED ELEC See Checklist for Options	4		DIRECTED ELECTIVE See Checklist for Options	4

Third Year

Fall		Hours	Spring	
MATH 3340	3	15	MATH 3342	3
PHYS 3330	3		PHYS 3310	3
PHYS 3320	3		PHYS 3350	3
ADVISED ELEC See Checklist for Options	6		ADVISED ELEC See Checklist for Options	6

Fourth Year

Fall		Hours	Spring	
PHYS 3340	3	13	PHYS 4340	3
PHYS 4320	3		PHYS 4360	3
PHYS 4197	1		PHYS 4103	1
PHYS ELECTIVE See Checklist for Options	3		PHYS ELECTIVE See Checklist for Options	3
ADVISED ELEC See Checklist for Options	3		ADVISED ELEC See Checklist for Options	3

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 30 hours. Students should always seek the advice of their academic adviser before scheduling classes.

Notes:
* MATH 2412 (1) or MATH 2413 (1) can be substitute for IDS 1071 (1) if these are used to satisfy CORE 20 requirements
** MATH 2412 is recommended over MATH 1316 for this degree plan
Eighteen hours of advisement based upon student career interests.

9/16/19