

**West Texas A&M University  
Advising Services  
Degree Checklist  
2018-2019**

NAME: \_\_\_\_\_ WT ID: \_\_\_\_\_ DATE: \_\_\_\_\_

**Physics**

**Chemistry and Physics**

**Chemistry and Physics Bldg. (301 26<sup>th</sup> St.) (806)651-2940**

CORE CURRICULUM COURSES: 42 HOURS ♦		HRS
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)	
<b>PHYSICS MAJOR REQUIREMENTS: 64-68 HOURS</b>		
A grade of "C" or better must be earned in all courses required for major.		
<b>UNIVERSITY CORE REQUIREMENTS: 15 HOURS ♦</b>		
<b>CORE 20</b>		
MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3]	3	
<b>CORE 30</b>		
PHYS 2425*[3] Calculus Physics I	3	
<b>CORE 30</b>		
PHYS 2426*[3] Calculus Physics II	3	
<b>CORE 90</b>		
ENGL 1302* Research and Rhetoric OR ENGL 2311* Introduction to Professional and Technical Communication	3	
<b>CORE 90</b>		
PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1]	3	
<b>PHYSICS REQUIREMENTS: 49-53 HOURS</b>		
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	

**Bachelor of Science Degree**

**BS.PHYSICS.TPC (138)**

PHYS 4197* Research in Physics	1	
PHYS 4103* Seminar in Physics	1	
MATH 1316* Plane Trigonometry OR MATH 2412* Pre-Calculus (if not taken to satisfy Core 20)	0-4	
MATH 2413* Calculus I	4	
MATH 2414* Calculus II	4	
MATH 3340* Calculus III	3	
MATH 3342* Differential Equations I	3	
CS 1315* Programming Fundamentals OR CS 1337 Introduction to Object-Oriented Programming	3	
<b>Take six hours from:</b> PHYS 3323* Medical Imaging Physics PHYS 3380* Astrophysics PHYS 4310* Modern Physics II PHYS 4350* Computational Physics PHYS 4370* Senior Investigations PHYS 4330* Optics PHYS 4390* (NEW) Solid State Physics <i>Three hours of PHYS 3095 or PHYS 4095 may also be applied toward this six-hour requirement.</i>	6	
<b>BACHELOR OF SCIENCE REQUIREMENTS</b>		
Covered by requirements for major.	<b>OPTION</b>	
<b>ELECTIVES</b>		
At least one hour must be advanced.		
18 HOURS BY ADVISEMENT	18	
<b>GENERAL ELECTIVES</b>		
ELECTIVES should be in a support field. MATH 3311 and 3321, CHEM 1411, 1412 are recommended.	7-12	
<b>MINIMUM HRS REQUIRED TO COMPLETE DEGREE</b>	<b>120</b>	

♦ 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 encouraged 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 Agriculture and Natural Sciences Building, Room 106 (phone 806-651-3570). Students who have completed 45 hours will not be allowed to progress without requesting a degree plan.**