West Texas A&M University Advising Services Degree Checklist 2022-2023

| NAME: | WT ID: | DATE: |
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Physics

Chemistry and Physics

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

| CORE CURRICULUM COURSES: 42 HOURS ◆ | HRS | |
|--|----------|-------|
| Communication (Code 10) | | |
| ENGL 1301 Intro. to Academic Writing & Argumentation | | |
| OR ENGL 1311 Writing About Ideas | 3 | |
| COMM 1315, 1318, or 1321 | 3 | |
| Mathematics (Code 20) | <u> </u> | |
| 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 | 3 | |
| Creative Arts (Code 50) ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 | 3 | |
| (for music majors), 1310; or THRE 1310 Choose 1 | J | |
| American History (Code 60) | | Т |
| HIST 1301 or 2381, 1302 or 2382, 2301 Choose 2 | 6 | |
| Government/Political Science (Code 70) | | Т |
| 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 Component Area Option (Code 90) | 3 | |
| 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 | l for ma | ijor. |
| UNIVERSITY CORE REQUIREMENTS: 15 HOURS • | | |
| CORE 20 MATH 1314*, 1316*, 1324*, 2412*[3], or 2413*[3] | 3 | |
| CORE 30 | 3 | |
| PHYS 2425*[3] Calculus Physics I | | |
| <u>core 30</u> PHYS 2426*[3] Calculus Physics II | 3 | |
| CORE 90 ENGL 1302* Research and Rhetoric OR ENGL 2311* Introduction to Professional and Technical Communication | 3 | |
| | | |
| CORE 90 PHYS 24251 [1] 24261 [1] | | |
| CORE 90 PHYS 2425L[1], 2426L[1] AND | 3 | |
| PHYS 2425L[1], 2426L[1] AND | 3 | |
| PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] | 3 | |
| PHYS 2425L[1], 2426L[1] | 3 | |
| PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] PHYSICS REQUIREMENTS: 49-53 HOURS | | |
| PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] PHYSICS REQUIREMENTS: 49-53 HOURS PHYS 3310* Modern Physics I | 3 | |
| PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] PHYSICS REQUIREMENTS: 49-53 HOURS PHYS 3310* Modern Physics I PHYS 3320* Thermodynamics PHYS 3330* Mechanics I | 3 | |
| PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] PHYSICS REQUIREMENTS: 49-53 HOURS PHYS 3310* Modern Physics I PHYS 3320* Thermodynamics PHYS 3330* Mechanics I | 3 3 | |
| PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] PHYSICS REQUIREMENTS: 49-53 HOURS PHYS 3310* Modern Physics I PHYS 3320* Thermodynamics PHYS 3330* Mechanics I PHYS 3340* Electricity and Magnetism I | 3 3 3 3 | |
| PHYS 2425L[1], 2426L[1] AND IDS 1071[1], MATH 2412[1], or 2413[1] PHYSICS REQUIREMENTS: 49-53 HOURS PHYS 3310* Modern Physics I PHYS 3320* Thermodynamics PHYS 3330* Mechanics I PHYS 3340* Electricity and Magnetism I PHYS 3350* Advanced Physics Laboratory | 3 3 3 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 | |
| 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. | OP. | TION |
| 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 120noved 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 36 hours of advanced work (3000- or 4000-level courses) for which tuition is paid 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. All undergraduate students must request an official degree plan from their academic dean's office by the time they have completed 30 credit hours.

WTAMU ADVISING SERVICES 2022-2023 Curriculum Guide

Major: Physics, B.S. Major Code: 138

| First Year | | Second Year | | | |
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| Semester Hours | Semester Hours | Semester Hours | Semester Hours | | |
| Third Year | | Fourth Year | | | |
| Fall | Spring | Fall | Spring | | |
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| Semester Hours | Semester Hours | Semester Hours | Semester Hours | | |
| Danie Tatalillaria 430 | | | | | |
| Degree Total Hours 120 | | | | | |
| DISCLAIMER: This curriculum guide s | hould be used in conjunction with the co | orresponding degree checklist for gen | eral planning purposes only. The degree | | |
| checklist (later a student's official de | gree plan) should be referred to as the c | omprehensive list of all courses requi | ired for the degree. An official degree plan | | |
| is required after completing 30 hours | s. Students should always seek the advic | e of their academic adviser before scl | heduling classes. | | |
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| identified ivia | Identified Marketable Skills: | | Top 3 Local Employers or Industries/Professional | | |
| | | Programs/Possil | ole Career Opportunities | | |
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| Prerequisites/Important So | equences/Other degree Note | s: | | | |
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