

West Texas A&M University

Advising Services

Degree Checklist

2024-2025

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

Name: _____ WT ID: _____ Date: _____

Physics B.S. (part of Consortium)	
Department of Chemistry and Physics (Chemistry & Physics Bldg. - 301 26th St.) (651-2940)	
Degree: Bachelor of Science (B.S.) See the "Requirements for Baccalaureate Degrees" section of the Catalog.	
Major: Physics	BS.PHYSICS.TPC
Major Code: 138	
University Core Curriculum Requirements (42 hours)	Semester Credit Hours
Core 10 - Communication (3 hours from ENGL options) • ENGL 1301 or ENGL 1311	3
Core 10 - Communication (3 hours from COMM options) • COMM 1315; COMM 1318; or COMM 1321	3
Core 20 - Mathematics (3 hours) • See Major-Specific University Core Requirements below	
Core 30 - Life and Physical Sciences (6 hours) • See Major-Specific University Core Requirements below	
Core 40 - Language, Philosophy and Culture (3 hours) • ANTH 2351; ENGL 2321; ENGL 2326; ENGL 2331; ENGL 2341; ENGL 2343; HIST 2311; HIST 2323; HIST 2372; MCOM 1307; PHIL 1301; PHIL 2374; SPAN 2311; SPAN 2312 [or an equivalent course (second year or intermediate level) in a foreign language]; SPAN 2313; SPAN 2315; or SPAN 2371	3
Core 50 - Creative Arts (3 hours) • ARTS 1301; ARTS 1303; ARTS 1304; DANC 2303; MUSI 1306; MUSI 1307; MUSI 1310; or THRE 1310	3
Core 60 - American History (6 hours) • HIST 1301; HIST 1302; HIST 2301; HIST 2381; or HIST 2382	3
Core 70 - Government / Political Science (6 hours) • POSC 2305 and POSC 2306	3
Core 80 - Social and Behavioral Sciences (3 hours) • AGBE 2317; COMM 2377; CRIJ 1301; ECON 2301; ECON 2302; GEOG 1302; PSYC 2301; or SOCI 1301	3
Core 90 - Component Area Option (6 hours or fewer; may depend on major requirements) • See Major-Specific University Core Requirements below	

Physics Major Requirements (64-68 hours)			
***** C or better required in all courses in the Major Requirements *****			
Major-Specific University Core Requirements (15 hours)			
The following courses are required for their specific Core areas <u>instead of</u> the courses listed above in the general University Core Curriculum.			
Core 20 - Mathematics (3 hours)			
<ul style="list-style-type: none"> MATH 1314 - College Algebra or MATH 1316 - Plane Trigonometry or MATH 1324 - Mathematics for Business and Economics I or MATH 2412 - Pre-Calculus Math or MATH 2413 - Calculus I (Fourth hour of MATH 2412 or MATH 2413, if taken, will count towards Core 90.)	3		
Core 30 - Life and Physical Sciences (6 hours)			
<ul style="list-style-type: none"> PHYS 2425, 2425L - Calculus Physics I PHYS 2426, 2426L - Calculus Physics II (Lab hours will count towards Core 90.)	3	3	
Core 90 - Component Area Option (6 hours)			
<ul style="list-style-type: none"> ENGL 1302 - Academic Writing and Research or ENGL 2311 - Introduction to Professional and Technical Communication Lab hours from PHYS 2425L/2426L and fourth hour from MATH 2412 or MATH 2413 (if taken) or from IDS 1071 	3		
	1	1	1
Physics Requirements (52-53 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 4103 - Seminar in Physics	1		
PHYS 4197 - Research in Physics	1		
PHYS 4320 - Quantum Mechanics I	3		
PHYS 4340 - Mathematical Methods	3		
PHYS 4360 - Nuclear Physics	3		
MATH 1316 - Plane Trigonometry or MATH 2412 - Pre-Calculus Math (if not taken to satisfy University core mathematics requirement)	3-4		
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 - Programming Principles I	3		

<p>Six hours from:</p> <p>PHYS 3323 - Physics of Medical Imaging PHYS 3380 - Introduction to Astrophysics PHYS 4310 - Modern Physics II PHYS 4350 - Computational Physics PHYS 4330 - Optics PHYS 4390 - Solid State Physics</p>	<p>3 3</p>
<p>B.S. Requirements (0 hours) Satisfied by Major Requirements</p>	
<p>Electives (25-29) **** C or better required in all courses in the Major Subject ****</p>	
<p>Electives by advisement NOTE: As needed to provide a total of 120 hours, of which at least 36 must be advanced.</p> <p>RECOMMENDED COURSES: CHEM 1411 - Chemistry I CHEM 1412 - Chemistry II MATH 3311 - Linear Algebra MATH 3321 - Probability</p>	<p>25-29</p>
<p>Total hours required to complete degree: 120 hours Depending on transfer credits and other substitutions/waivers, student may need to take additional electives as needed to total a minimum of 120 hours or the minimum total hours required for this degree, of which at least 36 must be advanced (3000/4000 level) and earned at WTAMU.</p>	
<p>Prerequisites Some courses may require prerequisites. See the University Catalog for more information.</p>	
<p>Advising Notes</p>	
<p>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. In addition, this document is used as an advising resource. For official information, please refer to the University Catalog.</p>	