West Texas A&M University **Advising Services Degree Checklist** 2023-2024

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

NAME. VIID. DAIE	NAME:	WT ID:	DATE:
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Physical Science (Grades 6-12) Certification **Chemistry and Physics**

CORE CURRICULUM COURSES: 42 HOURS ◆	HRS	
Communication (Code 10)		
ENGL 1301 Intro. to Academic Writing & Argumentation		
OR	3	
ENGL 1311 Writing About Ideas		
COMM 1315, 1318, or 1321	3	
Mathematics (Code 20) See University Core Requirements below	(2)	
Life and Physical Sciences (Code 30)	(3)	
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	
ARTS 1301, 1303, 1304; DANC 2303; MUSI 1306, 1307 (for music majors), 1310; or THRE 1310 Choose 1 American History (Code 60)	3	
HIST 1301, 1302, 2301, 2381, or 2382	6	T
Government/Political Science (Code 70)		
POSC 2305 and 2306	6	T
Social and Behavioral Sciences (Code 80)		
AGBE 2317*; COMM 2377; CRIJ 1301; ECON 2301, 2302; GEOG 1302; PSYC 2301; SOCI 1301 Choose 1 Component Area Option (Code 90)	3	
See University Core Requirements below	(6)	
REQUIREMENTS: 73-79 HOURS A grade of "C" or better and a 2.75 GPA is required.^		
PHYSICAL SCIENCE (GRADES 6-12) CERTIFICATION REQUIREMENTS: 73-79 HOURS A grade of "C" or better and a 2.75 GPA is required.^ UNIVERSITY CORE REQUIREMENTS: 15 HOURS CORE 20	2	
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Bachelor of Science Degree

Major: Chemistry BS.8-12.PHYS.SCI.EDS (499) – TEXES Exams: 160, 237

BS.8-12.PHYS.SCI.EDS (499) – TExES Exams	s: 16	50, 23
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	
PHYS 1411, 1411L Introduction to Astronomy I	4	
PHYS 2425*, 2425L Calculus Physics I	4	
PHYS 2426*, 2426L Calculus Physics II	4	
PHYS 3310* Modern Physics	3	
PHYS 3330* Mechanics I	3	
PHYS 4321* Principles of Physical Science	3	
EDUCATION REQUIREMENTS: 27 HOURS (A grade of "C" or better and a 2.75 GPA is required.^)		
EPSY 4341* Educator Readiness and Performance	3	
EDPD 4340* Classroom Management	3	
EDRD 4386* Secondary Reading in Content Area	3	
EDPD 4330* Educational Methodology and Diverse Learners	3	
EDPD 4348* Data-Informed Instruction and Assessment	3	
EDPD 4398* Clinical Teaching – All Certificate Areas	3	
EDSE 4341* Clinical Teaching—Secondary	3	
EPSY 3341* Educational Psychology	3	
EPSY 3350 Children with Special Needs	3	
TOTAL HOURS REQUIRED TO COMPLETE DEGREE	127	-133

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.

^{*} Indicates prerequisites—see catalog for more information.
** Or an equivalent course (second year, second semester) in a foreign language.

[^]Transfer & WT GPA combined must be 2.75.

WTAMU ADVISING SERVICES - 2023-2024 Curriculum Guide

Major: Physical Science (6-12) Cert. – Chemistry, B.S. Major Code: 499

Major: Physical Science (6-12) Cert. – Chemistry	y, B.S.	Major Code: 499	
Year 1: Fall		Year 1: Spring	
CORE 10 (Communication) – ENGL 1301 or 1311	3	CORE 30 (Life & Phys. Sci.) – CHEM 1412 Chemistry II	3
CORE 20 (Mathematics) – MATH 1314 College Algebra	3	CORE 90 (Component Area Option) – CHEM 1412L	1
CORE 30 (Life & Phys. Sci.) CHEM 1411 Chemistry I	3	CORE 90 (Component Area Option) - ENGL 1302, 1312 or 2311	3
CORE 90 (Component Area Option) – CHEM 1411L	1	MATH 2412 Pre-Calculus Math	4
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
PHYS 1411/1411L Introduction to Astronomy I	4	CORE – See checklist for options ¹	3
CORE 90 (Component Area Option) – See checklist or ² below	1		
Total:	18	Total:	17
Year 2: Fall		Year 2: Spring	
MATH 2413 Calculus I	4	MATH 2414 Calculus II	4
PHYS 2425/2425L Calculus Physics I	4	PHYS 2426/2426L Calculus Physics II	4
CHEM 2423/2423L Organic Chemistry I	4	CHEM 2425/2425L Organic Chemistry II	4
CORE – See checklist for options ¹	3	CORE – See checklist for options ¹	3
Total:	15	Total:	15
Year 3: Fall		Year 3: Spring	
CHEM 3511/3511L Analytical Chemistry	5	PHYS 3310 Modern Physics I	3
Chemistry Elective(1) – See checklist for options	4	Chemistry Elective(2) – See checklist for options	4
GEOG/GESC 3313 Meteorology	3	PHYS 3330 Mechanics I	3
EPSY 4341 Educator Readiness and Performance	3	EPSY 3341 Educational Psychology	3
		CORE – See checklist for options ¹	3
Total:	15	Total:	16
Year 4: Fall		Year 4: Spring	
Chemistry Elective(3) – See checklist for options	4	PHYS 4321 Principles of Physical Science	3
EDPD 4330 Educational Methodology & Diverse Learners	3	EDPD 4348 Data-Informed Instruction and Assessment	3
EDPD 4398 Clinical Teaching – All Certificate Areas	3	EDSE 4341 Clinical Teaching - Secondary	3
CORE – See checklist for options ¹	3	EPSY 3350 Children with Special Needs	3
CORE – See checklist for options ¹	3	EDRD 4386 Secondary Reading in the Content Area	3
'		EDPD 4340 Classroom Management	3
Total:	16	Total:	18

¹ **CORE:** Physical Science 6-12 Cert. (Chemistry) majors are required to take specific courses for Core 20, Core 30, and Core 90. For all other categories, they may select from any available options (see degree checklist). Apart from the major-specific core requirements, there is no set order in which core courses must be taken.

² CORE 90: One of the six hours required for Core 90 may be satisfied by IDS 1071 (if taken) or the fourth hour from MATH 2412 or 2413.

Identified Marketable Skills	Top Three Local Employers or Industries/Professional Programs/Possible Career
Procedure development	Opportunities
Chemical analysis	Bell Helicopter
Data analysis	Pantex
	Servitech

Additional notes:

- 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.
- 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.

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.