

**West Texas A&M University**  
**Advising Services**  
**Degree Checklist**  
**2025-2026**

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

Name: \_\_\_\_\_ WT ID: \_\_\_\_\_ Date: \_\_\_\_\_

<b>Physical Science (Grades 6-12) Certification (Chemistry B.S.)</b>		
<b>Department of Chemistry and Physics (NSB-106) (651-2940)</b>		
<b>Degree:</b> Bachelor of Science (B.S.)		
See the "Requirements for Baccalaureate Degrees" section of the Catalog.		
<b>Major:</b> Chemistry		<b>BS.6-12.PHYS.SCI.EDS</b>
<b>Major Code:</b> 499		
***** A grade of "C" or better and a 2.75 overall GPA (WT and transfer) is required. *****		
<b>University Core Curriculum Requirements (42 hours)</b>		<b>Semester Credit Hours</b>
<b>Core 10 - Communication (3 hours from ENGL options)</b> • ENGL 1301 or ENGL 1311		<b>3</b>
<b>Core 10 - Communication (3 hours from COMM options)</b> • COMM 1315; COMM 1318; or COMM 1321		<b>3</b>
<b>Core 20 - Mathematics (3 hours)</b> • See Major-Specific University Core Requirements below		
<b>Core 30 - Life and Physical Sciences (6 hours)</b> • See Major-Specific University Core Requirements below		
<b>Core 40 - Language, Philosophy and Culture (3 hours)</b> • 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		<b>3</b>
<b>Core 50 - Creative Arts (3 hours)</b> • ARTS 1301; ARTS 1303; ARTS 1304; DANC 2303; MUSI 1306; MUSI 1307; MUSI 1310; or THRE 1310		<b>3</b>
<b>Core 60 - American History (6 hours)</b> • HIST 1301; HIST 1302; HIST 2301; HIST 2381; or HIST 2382		<b>3</b>
<b>Core 70 - Government / Political Science (6 hours)</b> • POSC 2305 and POSC 2306		<b>3</b>
<b>Core 80 - Social and Behavioral Sciences (3 hours)</b> • AGBE 2317; COMM 2377; CRIJ 1301; ECON 2301; ECON 2302; GEOG 1302; PSYC 2301; or SOCI 1301		<b>3</b>
<b>Core 90 - Component Area Option (6 hours or fewer; may depend on major requirements)</b> • See Major-Specific University Core Requirements below		

<b>Chemistry Major Requirements (98-104 hours)</b>			
***** C or better required in all courses in the Major Requirements *****			
<b>Major-Specific University Core Requirements (15 hours)</b>			
The following courses are required for their specific Core areas <u>instead of</u> the courses listed above in the general University Core Curriculum.			
<b>Core 20 - Mathematics (3 hours)</b> <ul style="list-style-type: none"> <li>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</li> </ul> (Fourth hour of MATH 2412 or MATH 2413, if taken, will count towards Core 90.)	3		
<b>Core 30 - Life and Physical Sciences (6 hours)</b> <ul style="list-style-type: none"> <li>CHEM 1411, 1411L - Chemistry I</li> <li>CHEM 1412, 1412L - Chemistry II</li> </ul> (Lab hours will count towards Core 90.)	3	3	
<b>Core 90 - Component Area Option (6 hours)</b> <ul style="list-style-type: none"> <li>ENGL 1302 - Academic Writing and Research or ENGL 2311 - Introduction to Professional and Technical Communication</li> <li>Lab hours from CHEM 1411L/1412L and fourth hour from MATH 2412 or MATH 2413 (if taken) or from IDS 1071</li> </ul>	3		
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<b>Physical Science Requirements (56-62 hours)</b>			
***** C or better and 2.75 GPA is required. *****			
CHEM 2423 - Organic Chemistry I	4		
CHEM 2425 - Organic Chemistry II	4		
CHEM 3511 - Analytical Chemistry	5		
<b>Three courses from:</b> CHEM 3421 - Physical Chemistry I CHEM 3422 - Physical Chemistry II CHEM 4411 - Instrumental Analysis CHEM 4323 - Biochemistry I <b>and</b> CHEM 4223L - Biochemistry I Laboratory CHEM 4324 - Biochemistry II <b>and</b> CHEM 4224L - Biochemistry II Laboratory CHEM 4431 - Inorganic Chemistry	12-14		
GEOG 3313 - Meteorology or GESC 3313 - Meteorology	3		
MATH 1316 - Plane Trigonometry or MATH 2412 - Pre-Calculus Math (if not taken to satisfy University core mathematics requirement)	0-4		
MATH 2413 - Calculus I	4		
MATH 2414 - Calculus II	4		
PHYS 1311 - Planetary Astronomy	3		
PHYS 2425 - Calculus Physics I	4		
PHYS 2426 - Calculus Physics II	4		
PHYS 3310 - Modern Physics I	3		
PHYS 3330 - Mechanics I	3		
PHYS 4321 - Principles of Physical Science	3		

