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

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

Name:	ne: WT ID: Date:			
Chemistry B.A., Department of Chem	<b>/B.S.</b> istry and Physics (NSB 106) (651-2940)			
-	f Arts (B.A.) <b>or</b> Bachelor of Science (B.S.) g on option selected; see the "Requirements for Baccalaureate Degrees" s	section of th	e Catalog	
Major: Chemistry Major Code: 104				
-	ofessional Chemistry eneral Chemistry	BA/B	S.CHEM S.CHEM S.BIOCH	I
University Core Cur	riculum Requirements (42 hours)	Semeste	er Credi	t Hours
Core 10 - Communica • ENGL 1301 o	<b>tion (3 hours from ENGL options)</b> r ENGL 1311		3	
	<b>tion (3 hours from COMM options)</b> ; COMM 1318; or COMM 1321		3	
Core 20 - Mathematic • See Major-Sp	c <b>s (3 hours)</b> pecific University Core Requirements below			
-	<b>/sical Sciences (6 hours)</b> pecific University Core Requirements below			
• ANTH 2351; 2323; HIST 23	hilosophy and Culture (3 hours) ENGL 2321; ENGL 2326; ENGL 2331; ENGL 2341; ENGL 2343; HIST 2 372; MCOM 1307; PHIL 1301; PHIL 2374; SPAN 2311; SPAN 2312 [or urse (second year or intermediate level) in a foreign language]; SPAN 231 N 2371	r an	3	
Core 50 - Creative Art	t <b>s (3 hours)</b> ARTS 1303; ARTS 1304; DANC 2303; MUSI 1306; MUSI 1307; MUSI 1	1310; or	3	
Core 60 - American H • HIST 1301; H	<b>istory (6 hours)</b> IST 1302; HIST 2301; HIST 2381; or HIST 2382		3	3
Core 70 - Governmen	<b>t / Political Science (6 hours)</b> nd POSC 2306		3	3
	<b>Behavioral Sciences (3 hours)</b> COMM 2377; CRIJ 1301; ECON 2301; ECON 2302; GEOG 1302; PSYC	2301; or	3	
	Area Option (6 hours or fewer; may depend on major requireme becific University Core Requirements below	nts)		

Chamister Maior Daminerrate (F4 C2 have)				
Chemistry Major Requirements (51-63 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 instead of the courses listed above in the gene	eral L	Jnive	rsity	
Core Curriculum.	<u> </u>			
Core 20 - Mathematics (3 hours)				
MATH 1314 - College Algebra				
or MATH 1316 - Plane Trigonometry	3			
or MATH 1324 - Mathematics for Business and Economics I 3 or MATH 2412 - Pre-Calculus Math				
or MATH 2412 - Pre-Calculus Math				
(Fourth hour of MATH 2412 or MATH 2413, if taken, will count towards Core 90.)				
Core 30 - Life and Physical Sciences (6 hours)				
CHEM 1411, 1411L - Chemistry I				
<ul> <li>CHEM 1412, 1412L - Chemistry II</li> </ul>	3		3	
(Lab hours will count towards Core 90.)				
Core 90 - Component Area Option (6 hours)		3		
<ul> <li>ENGL 1302 - Academic Writing and Research</li> <li>or ENGL 2311 - Introduction to Professional and Technical Communication</li> </ul>			<u>г т т</u>	
	1	1	1	
<ul> <li>Lab hours from CHEM 1411L/1412L and fourth hour from MATH 2412 or MATH 2413 (if taken) or from IDS 1071</li> </ul>	1	1	1	
Dequired Courses for Ontion				
Required Courses for Option				
Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry				
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Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry Option I: Professional Chemistry This option follows course recommendations of the American Chemical Society and prepares students for po government and education. It is recommended for students planning to do graduate study in chemistry or se as chemists in industry. CHEM 2423 - Organic Chemistry I CHEM 2425 - Organic Chemistry II CHEM 3201 - Chemical Literature CHEM 3421 - Physical Chemistry I	eking 4 4 2 4		-	
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Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry Option I: Professional Chemistry This option follows course recommendations of the American Chemical Society and prepares students for po government and education. It is recommended for students planning to do graduate study in chemistry or se as chemists in industry. CHEM 2423 - Organic Chemistry I CHEM 2425 - Organic Chemistry II CHEM 3201 - Chemical Literature CHEM 3421 - Physical Chemistry I CHEM 3422 - Physical Chemistry II CHEM 3511 - Analytical Chemistry CHEM 4103 - Seminar in Chemistry CHEM 4323 - Biochemistry I	eking 4 4 2 4 4 5 1 3			
Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry Option I: Professional Chemistry This option follows course recommendations of the American Chemical Society and prepares students for po government and education. It is recommended for students planning to do graduate study in chemistry or se as chemists in industry. CHEM 2423 - Organic Chemistry I CHEM 2425 - Organic Chemistry II CHEM 3201 - Chemical Literature CHEM 3421 - Physical Chemistry I CHEM 3422 - Physical Chemistry II CHEM 3422 - Physical Chemistry II CHEM 3511 - Analytical Chemistry CHEM 4103 - Seminar in Chemistry CHEM 4323 - Biochemistry I CHEM 4223L - Biochemistry I Laboratory	eking 4 2 4 4 5 1 3 2		-	
Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry Option I: Professional Chemistry This option follows course recommendations of the American Chemical Society and prepares students for po government and education. It is recommended for students planning to do graduate study in chemistry or se as chemists in industry. CHEM 2423 - Organic Chemistry I CHEM 2425 - Organic Chemistry II CHEM 3201 - Chemical Literature CHEM 3421 - Physical Chemistry II CHEM 3422 - Physical Chemistry II CHEM 3511 - Analytical Chemistry CHEM 4103 - Seminar in Chemistry CHEM 4323 - Biochemistry I CHEM 4323 - Biochemistry I CHEM 423L - Biochemistry I Laboratory CHEM 4397 - Undergraduate Research	eking 4 4 2 4 4 4 5 1 3 2 2 3		-	
Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry Option I: Professional Chemistry This option follows course recommendations of the American Chemical Society and prepares students for po government and education. It is recommended for students planning to do graduate study in chemistry or se as chemists in industry. CHEM 2423 - Organic Chemistry I CHEM 2425 - Organic Chemistry II CHEM 3201 - Chemical Literature CHEM 3421 - Physical Chemistry I CHEM 3422 - Physical Chemistry I CHEM 3511 - Analytical Chemistry CHEM 4103 - Seminar in Chemistry CHEM 4323 - Biochemistry I CHEM 4323 - Biochemistry I Laboratory CHEM 4397 - Undergraduate Research CHEM 4411 - Instrumental Analysis	eking 4 4 2 4 4 4 5 1 3 3 2 3 4		-	
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Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry Option I: Professional Chemistry This option follows course recommendations of the American Chemical Society and prepares students for po government and education. It is recommended for students planning to do graduate study in chemistry or se as chemists in industry. CHEM 2423 - Organic Chemistry I CHEM 2425 - Organic Chemistry II CHEM 3201 - Chemical Literature CHEM 3421 - Physical Chemistry I CHEM 3511 - Analytical Chemistry II CHEM 4103 - Seminar in Chemistry CHEM 4103 - Seminar in Chemistry CHEM 4323 - Biochemistry I Laboratory CHEM 4327 - Undergraduate Research CHEM 4311 - Instrumental Analysis CHEM 4431 - Inorganic Chemistry Advanced Elective in Chemistry (3 hours) MATH 1316 - Plane Trigonometry	eking 4 4 4 4 4 4 5 1 3 3 4 4 4 3 3	: emp		
Complete one option: (I) Professional Chemistry, (II) General Chemistry, or (III) Biochemistry Option I: Professional Chemistry This option follows course recommendations of the American Chemical Society and prepares students for po government and education. It is recommended for students planning to do graduate study in chemistry or se as chemists in industry. CHEM 2423 - Organic Chemistry I CHEM 2425 - Organic Chemistry II CHEM 3201 - Chemical Literature CHEM 3421 - Physical Chemistry II CHEM 3511 - Analytical Chemistry II CHEM 4103 - Seminar in Chemistry CHEM 4103 - Seminar in Chemistry CHEM 4223 - Biochemistry I Laboratory CHEM 4327 - Undergraduate Research CHEM 4311 - Instrumental Analysis CHEM 4431 - Inorganic Chemistry Advanced Elective in Chemistry (3 hours) MATH 1316 - Plane Trigonometry or MATH 2412 - Pre-Calculus Math	eking 4 4 2 4 4 4 5 1 1 3 2 3 4 4 4 4	: emp		
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PHYS 2426 - Calculus Physics II	4
CHEM 4370 - Senior Investigations	
or MPS 4393 - Math/Physical Science/Engineering Honors	3
Additional advanced hours to provide a minimum of 36 hours selected from:	
Chemistry, physics or mathematics.	est. 0
Option II: General Chemistry	
This option provides a background for students whose career goals are to enter education or chemistry-related	ed fields.
CHEM 2423 - Organic Chemistry I	4
CHEM 2425 - Organic Chemistry II	4
CHEM 3201 - Chemical Literature	2
CHEM 3511 - Analytical Chemistry	5
CHEM 4103 - Seminar in Chemistry	1
MATH 1316 - Plane Trigonometry	+
or MATH 2412 - Pre-Calculus Math	3-4
MATH 2412 - Pre-Calculus Math	4
	4
MATH 2414 - Calculus II	4
PHYS 1401 - General Physics I or PHYS 2425 - Calculus Physics I	4
PHYS 1402 - General Physics II or PHYS 2426 - Calculus Physics II	4
	-
CHEM 4370 - Senior Investigations or MPS 4393 - Math/Physical Science/Engineering Honors	3
Three courses from:	
CHEM 3421 - Physical Chemistry I	
CHEM 3422 - Physical Chemistry II	
CHEM 4323 - Biochemistry I and CHEM 4223L Biochemistry I Laboratory	12-14
CHEM 4324 - Biochemistry II and CHEM 4224L - Biochemistry II Laboratory	12-14
CHEM 4411 - Instrumental Analysis	
CHEM 4431 - Inorganic Chemistry	
Additional advanced hours to provide a minimum of 36 hours selected from:	-
Chemistry, mathematics, biology, computer science, physics, environmental science or geology.	
	est. 11-13
Option III: Biochemistry	
This option is for students planning careers using chemistry applied to medical science, including pre-medical	students and
other pre-professional students.	
CHEM 2423 - Organic Chemistry I	4
CHEM 2425 - Organic Chemistry II	4
CHEM 3201 - Chemical Literature	2
CHEM 3511 - Analytical Chemistry	5
CHEM 4103 - Seminar in Chemistry	1
CHEM 4323 - Biochemistry I	3
CHEM 4223L - Biochemistry I Laboratory	2
	3
CHEM 4324 - Biochemistry II	<u>ى</u>

	2
	2
BIOL 1406 - Basic and Contemporary Biology I	4
or BIOL 1413 - Zoology	
BIOL 1407 - Basic and Contemporary Biology II	4
or BIOL 1411 - Botany	-
BIOL 2572 - Microbiology	5
BIOL 3301 - Genetics	3
BIOL 3402 - Cell Biology	4
3-4 Hours Advanced Biology Elective or CHEM 3421.	
	3-4
(Taking both BIOL 2401 and 2402 may also be used to satisfy this requirement.)	
MATH 1316 - Plane Trigonometry	
or MATH 2412 - Pre-Calculus Math	3-4
MATH 2413 - Calculus I	4
PHYS 1401 - General Physics I	
or PHYS 2425 - Calculus Physics I	4
PHYS 1402 - General Physics II	
or PHYS 2426 - Calculus Physics II	4
CHEM 4370 - Senior Investigations	
	3
(MATH 2414 - Calculus II is recommended)	5
P.A. /P.S. Poquiroments (0.12 hours)	
B.A./B.S. Requirements (0-12 hours) Complete the requirements for your specific degree.	
<b>B.A. Degree</b> In addition to the core curriculum, a minimum of 12 hours as follows:	
<ul> <li>At least six hours of foreign language, and</li> </ul>	c
• Six hours chosen from art communication studies dance English history modia	6
communications, modern languages, music, philosophy, religion, and theatre.	6
or	or
B.S. Degree	
B.S. Degree	0
B.S. Degree	0
<b>B.S. Degree</b> Requirements are satisfied by the Major Requirements.	0
B.S. Degree Requirements are satisfied by the Major Requirements. Electives (See NOTE)	0

## 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.

## Prerequisites

Some courses may require prerequisites. See the University Catalog for more information.

Advising Notes

**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.