



## Undergraduate Degree Map for Completion in Four Years

<b>College:</b>	College of Science, Engineering & Technology <input type="button" value="v"/>
<b>Department:</b>	Chemistry & Geology <input type="button" value="v"/>
<b>Name of Program:</b>	CHEMISTRY <input type="button" value="v"/>
<b>Degree Designation:</b>	BA <input type="button" value="v"/>
<b>Emphasis/Concentration:</b>	<input type="text"/> <input type="button" value="v"/>
<b>Option:</b>	<input type="text"/>
<b>Version:</b>	<input type="text"/> <input type="button" value="v"/>
<b>Version Explanation:</b>	<input type="text"/>
<b>Type of Program:</b>	Standard Major <input type="button" value="v"/>
<b>Minor Required:</b>	Yes <input type="button" value="v"/>
<b>Specific Minor (if required):</b>	<input type="text"/>

### Program Description:

The department is recognized by the American Chemical Society (ACS) and offers a BS major that is approved by that organization. Anyone considering a chemistry major or chemistry minor should choose a departmental faculty member as an advisor and consult that advisor often throughout the course of study.

### Admission Requirements:

Admission to a program is necessary before enrolling in 300- and 400-level courses. Admission is granted by the department. To be eligible for admission to the chemistry program, a student must have declared Chemistry or Chemistry Teaching as a first major, completed 32 credits including CHEM 201 and CHEM 202 and achieved a minimum GPA of 2.0. Students should also have an assigned chemistry advisor with whom they have discussed the program. Applications for admission to the chemistry program are available in the College Student Advising Center, 125 Trafton Center.

### Advising:

You are expected to meet with your advisor on a regular basis to ensure courses are taken in an order that will lead to successful completion of the degree.

College of Science, Engineering & Technology Advising Center  
 Ken Adams, Student Relations Coordinator  
 Trafton C-125  
 507-389-1521

A complete listing of program faculty, policies, and course descriptions is available in the undergraduate bulletin.

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67% Completion of $\geq$ 15 credit hours
CHEM	201	GENERAL CHEMISTRY I	5	C OR BETTER
ENG	101	COMPOSTION	4	
		GENERAL EDUCATION COURSE	2-4	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	

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**Term 1 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 6

### TERM 2 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67% Completion of $\geq$ 30 credit hours Advance to Sophomore status
CHEM	202	GENERAL CHEMISTRY II	5	C OR BETTER
MATH	12I	CALCULUS I	4	C OR BETTER
		GENERAL EDUCATION COURSE 1B	3	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		GENERAL EDUCATION COURSE	1-3	
		GENERAL EDUCATION COURSE	1-3	
		GENERAL EDUCATION COURSE	1-3	

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**Term 2 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 3

### TERM 3 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67%
CHEM	322	ORGANIC CHEMISTRY I	4	C OR BETTER
CHEM	305	ANALYTICAL CHEMISTRY	4	C OR BETTER
PHYS OR PHYS	211 OR 221	PRINCIPLES OF PHYSICS I OR GENERAL PHYSICS I	4 4	C OR BETTER
		GENERAL EDUCATION COURSE	2-4	APPLY FOR ADMISSION TO COLLEGE
		GENERAL EDUCATION COURSE	2-4	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2

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**Term 3 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 4

## TERM 4 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67% Completion of $\geq$ 60 credit hours Advance to Junior status
CHEM	324	ORGANIC CHEMISTRY II	3	
CHEM	325	ORGANIC CHEMISTRY II LABORATORY	1	
PHYS OR PHYS AND PHYS	212 OR 223 AND 233	PRINCIPLES OF PHYSICS II OR GENERAL PHYSICS III AND GENERAL PHYSICS III LABORATORY	4 3 1	
		GENERAL EDUCATION COURSE	2-4	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		GENERAL EDUCATION COURSE	2-4	
		COURSE IN MINOR	3	

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**Term 4 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 4

## TERM 5 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67% Apply for Graduation
CHEM	381W	INTRODUCTION TO RESEARCH	2	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		LANGUAGE COURSE	4	
		COURSE IN MINOR	4	
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	

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**Term 5 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 6

## TERM 6 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67% Completion of $\geq$ 90 credit hours Advance to Senior status
CHEM	340	QUANTITATIVE SKILLS FOR CHEMISTS AND BIOCHEMISTS I	1	C OR BETTER

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67% Completion of $\geq$ 90 credit hours Advance to Senior status
CHEM	341	QUANTITATIVE SKILLS FOR CHEMISTS AND BIOCHEMISTS II	1	C OR BETTER
		LANGUAGE COURSE	4	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		GENERAL EDUCATION COURSE	2-4	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2

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**Term 6 Notes:**

UNRESTRICTED ELECTIVE COURSE IN CHEM MINIMUM CREDITS 4

### TERM 7 - FALL

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67%
CHEM	440	PHYSICAL CHEMISTRY I	3	
CHEM OR CHEM	316 OR 317	DESCRIPTIVE INORGANIC MAIN GROUP CHEMISTRY OR TRANSITION METAL CHEMISTRY	3	
		COURSE IN MINOR	3	
		GENERAL EDUCATION COURSE	2-4	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	

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**Term 7 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 6

### TERM 8 - SPRING

<i>Designator:</i>	<i>Course:</i>	<i>Course Name:</i>	<i>Credits:</i>	<i>Milestones:</i>
				Overall GPA $\geq$ 2.0 Course Completion Rate $\geq$ 67%
CHEM	495	SENIOR SEMINAR	1	
CHEM	360	PRINCIPALS OF BIOCHEMISTRY	4	
		COURSE IN MINOR	3	
		COURSE IN MINOR	3	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	

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**Term 8 Notes:**

UNRESTRICTED ELECTIVE COURSE IN CHEM MINIMUM CREDITS 4

**PROGRAM NOTES**

1. MUST TAKE ONE OF 316 OR 317 AND ONE OF 360 OR 460 TO COMPLETE FOUNDATION COURSES.
2. FOR THE UNRESTRICTED ELECTIVES IN CHEM AT LEAST 6 CREDITS AND AT LEAST 2 DIFFERENT COURSES FROM 300-400 LEVEL CHEMISTRY COURSES OTHER THAN CHEM 323, 479, AND 482. CHEM COURSES LISTED IN THE MAP CANNOT COUNT AS ELECTIVES.
3. TO USE THIS MAP, STUDENTS MUST HAVE A CURRENT ACT MATH SUBSCORE OF 24, OR A MINIMUM ACCUPLACER COLLEGE LEVEL MATH SCORE 103 OR A MINIMUM ACCUPLACER CALCULUS READINESS SCORE OF 22 OR A MINIMUM SCORE OF C OR BETTER IN MATH 115 OR BOTH MATH 112 AND MATH 113. NOTE THAT 'C-' IS NOT 'C'.

**DEGREE MAP CHECKLIST: GRADUATION REQUIREMENTS**

<input type="checkbox"/>	1. Minimum of 15 credits per semester
<input type="checkbox"/>	2. General Education = 44 credits
<input type="checkbox"/>	3. Diverse Cultures = 2 course (6 credits minimum) from two disciplines
<input type="checkbox"/>	4. Writing Intensive = 2 courses (6 credits minimum)
<input type="checkbox"/>	5. Major = <input type="text"/> credits
<input type="checkbox"/>	6. Upper-Division Requirements = 40 credits minimum
<input type="checkbox"/>	7. Professional Education (if required) = 30 credits
<input type="checkbox"/>	8. Language Requirements (if BA) = 8 credits minimum
<input type="checkbox"/>	9. Minor = <input type="text"/> credits
<input type="checkbox"/>	10. Total credits required for degree <input type="text"/>

**DEGREE MAP COMPLETE**

<input checked="" type="checkbox"/>	<p>Map is complete and ready for review</p> <ol style="list-style-type: none"> <li>1. Faculty please send an email to your Department Chair when map is ready to review.</li> <li>2. Department Chair please send an email to your Dean when map is ready to review.</li> <li>3. Dean please send an email to the Assistant Vice President for Undergraduate Studies when map is ready to review.</li> </ol>
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**DEAN APPROVAL**

<input checked="" type="checkbox"/>	Map reviewed and approved by Dean
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Save and Close