



## 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>	BS <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>	2 <input type="button" value="v"/>
<b>Version Explanation:</b>	Physical Chemistry is taken in senior year
<b>Type of Program:</b>	Broad Major <input type="button" value="v"/>
<b>Minor Required:</b>	No <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
MATH	121	CALCULUS I	4	C OR BETTER
ENG	101	COMPOSTION	4	
		GENERAL EDUCATION COURSE	3	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2

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**Term 1 Notes:**

### 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	122	CALCULUS II	4	
		GENERAL EDUCATION COURSE 1B	3	
		GENERAL EDUCATION COURSE	3	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2

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**Term 2 Notes:**

### 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	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		GENERAL EDUCATION COURSE	2-4	APPLY FOR ADMISSION TO COLLEGE

Insert item

**Term 3 Notes:**

### 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	C OR BETTER
CHEM	325	ORGANIC CHEMISTRY II LABORATORY	1	
PHYS OR 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	
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2

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**Term 4 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 6

### 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
CHEM OR CHEM	316 OR 317	DESCRIPTIVE INORGANIC MAIN GROUP CHEMISTRY OR TRANSITION METAL CHEMISTRY	3 3	
		RESTRICTED ELECTIVE COURSE IN MATH	4	
		GENERAL EDUCATION COURSES	2-4	
		GENERAL EDUCATION COURSES	2-4	
		GENERAL EDUCATION COURSES	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/PHYSICAL CHEMISTRY II	1	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
CHEM	341	QUANTITATIVE SKILLS FOR CHEMISTS AND BIOCHEMISTS II	1	

<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 360		PRINCIPLES OF BIOCHEMISTRY I	4	
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	

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**Term 6 Notes:**

GENERAL EDUCATION COURSES MINIMUM CREDITS 6

### 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	450	PHYSICAL CHEMISTRY I LABORATORY	1	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	
		GENERAL EDUCATION COURSE	2-4	

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**Term 7 Notes:**

UNRESTRICTED ELECTIVE IN CHEM MINIMUM CREDITS 4  
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	441	PHYSICAL CHEMISTRY II	3	
CHEM	451	PHYSICAL CHEMISTRY II LABORATORY	1	
CHEM	495	SENIOR SEMINAR	1	OVERALL GPA IN REQUIRED COURSES $\geq$ 2.2
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	2-4	
		UNRESTRICTED ELECTIVE COURSE IN CHEM	3	

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**Term 8 Notes:**

UNRESTRICTED ELECTIVE IN CHEM MINIMUM 8 CREDITS

**PROGRAM NOTES**

1. MATH MINOR IS COMPLETED IF STUDENT TAKES MATH 247 AS MATH ELECTIVE.
2. MUST TAKE ONE OF 316 OR 317 AND ONE OF 360 OR 460 TO COMPLETE FOUNDATION COURSES.
3. FOR UNRESTRICTED ELECTIVE IN CHEM, CHOOSE 12 CREDITS AND AT LEAST 3 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.
4. 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"/>	Map is complete and ready for review <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