

# Chemistry

## Bachelor of Science—Three-Year Plan



### Semester 1 (Fall)

Course	Credits	Grade		✓
ENGL 101: Composition & Rhetoric I	3	C*		<input type="checkbox"/>
CHEM 101/111: General Chemistry I with Lab	4	C		<input type="checkbox"/>
MATH 103: College Algebra	3	C		<input type="checkbox"/>
General Education Course	3			<input type="checkbox"/>
General Education Course	2-3			<input type="checkbox"/>
UNIV 100: CU Foundations	1			<input type="checkbox"/>

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### Semester 2 (Spring)

Course	Credits	Grade		✓
ENGL 102: Composition & Rhetoric II	3	C*		<input type="checkbox"/>
CHEM 102/112: General Chemistry II with Lab	4	C		<input type="checkbox"/>
MATH 104: College Trigonometry	3	C		<input type="checkbox"/>
General Education Course	3			<input type="checkbox"/>
General Education Course	4			<input type="checkbox"/>

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### Semester 3 (Summer I)

Course	Credits	Grade		✓
PHYS 101/L: Introductory Physics with Lab or elec-	4			<input type="checkbox"/>
General Education Course	3			<input type="checkbox"/>

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### Semester 4 (Summer II)

Course	Credits	Grade		✓
PHYS 102/L: Intermediate Physics with Lab or elective	4			<input type="checkbox"/>
General Education Course	3			<input type="checkbox"/>

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### Semester 5 (Fall)

Course	Credits	Grade		✓
CHEM 210: Chemical Laboratory Safety	1			<input type="checkbox"/>
PHSC 219: Laboratory Research Methods	1			<input type="checkbox"/>
CHEM 331: Organic Chemistry I	4	C		<input type="checkbox"/>
MATH 253: Calculus with Analytic Geometry I	4	C		<input type="checkbox"/>
General Education Course	4			<input type="checkbox"/>

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### The Bachelor of Science in Chemistry degree can lead

to a wide range of career opportunities, including health-related sciences, industry, and teaching. Selection of flexible, advanced coursework in chemistry or other sciences allows our graduates to become multi-disciplinary specialists by completing one or more elective concentrations.

### AVAILABLE CONCENTRATIONS:

Biochemistry (Pre-Medicine)  
Geochemistry  
Professional Chemistry



### MILESTONE COURSES

Courses marked as *Milestone Courses* are crucial for staying on track to complete your degree in three years. Take them in the recommended semester to stay on track! Sections with a recommended minimum grade is the grade you need to earn to have the best chance for success in this degree! Grades marked with an asterisk (\*) are required to pass.

### Helpful Hints

- Use this plan in consultation with your Academic Advisor and CU Rise director.
- All Chemistry majors must choose an emphasis: discuss with your advisors. Each concentration is 12-16 hours. See the [catalog](#) for specifics.
- Semester 1—it is recommended that you take the remaining Natural Sciences General Education Course at this point.
- Students who take PHYS 201 & 202 instead of PHYS 101 & 102 may have one 4 hour course within the chosen emphasis waived.

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### Semester 6 (Spring)

Course	Credits	Grade	✓
PHYS 201/L: University Physics with Calculus, Part 1 with Lab or Elective	4		<input type="checkbox"/>
CHEM 341: Biochemistry	3		<input type="checkbox"/>
CHEM 347: Biochemistry Lab	1		<input type="checkbox"/>
Chemistry Major In-Depth Elective Concentration Course	4		<input type="checkbox"/>
MATH or CS Elective	3-4		<input type="checkbox"/>

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### Semester 7 (Summer I)

Course	Credits	Grade	✓
CHEM 470: Independent Lab Research I or Elective	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>

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### Semester 8 (SummerII)

Course	Credits	Grade	✓
CHEM 471: Independent Lab Research II or Elective	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>

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### Semester 9 (Fall)

Course	Credits	Grade	✓
CHEM 351/357: Analytical Chemistry with Lab	5		<input type="checkbox"/>
PHYS 202/L: University Physics with Calculus, Part	4		<input type="checkbox"/>
Chemistry Major In-Depth Elective Concentration	4		<input type="checkbox"/>
Elective	4		<input type="checkbox"/>

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### Semester 10 (Spring)

Course	Credits	Grade	✓
CHEM 352/358: Instrumental Analysis with Lab or CHEM 402:	3-4		<input type="checkbox"/>
Chemistry Major In-Depth Elective Concentration Course	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Elective	4		<input type="checkbox"/>

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**You're FINISHED!!**

### ADVISING

When you choose to pursue this degree, you will be assigned an advisor with expertise in the field of Chemistry. This advisor and the CU Rise director will help you with course selection, career planning, resume building, and help you with tracking your path to degree completion.

### CAREERS

Depending on your emphasis, a degree in Chemistry will prepare you for careers such as: Medical Doctor; Chemist; Biochemist; Laboratory Technician; Research Scientist; Drug Research; Pharmacist; Applications Support Engineer.

### STUDENT ORGANIZATIONS

American Chemical Society (student chapter)

PATH (Pre-Med)

### COMPLEMENTARY MINORS

Chemistry pairs well with many of the minors offered at CU. There are several elective hours in this degree—consult with your advisor to see what minor fits your goals.

### Helpful Hints

- Some things to consider and discuss with your advisor:
- Off campus summer experiences
- Internships after Semester 4 and 6.
- Research with CU faculty after Semester 4.
- Taking the GRE (for grad school) after Semester 6.
- Applying to grad schools December of Semester 7.