

Semester 1

Course	Credits	Grade		✓
ENGL 101: Composition & Rhetoric I	3	C*		<input type="checkbox"/>
CHEM 101/111: Principles of Chemistry I with Lab	4	C		<input type="checkbox"/>
MATH 103: College Algebra or MATH 107: Precalculus	3-4	C		<input type="checkbox"/>
General Education Course	3-4			<input type="checkbox"/>
UNIV 100: CU Foundations	1			<input type="checkbox"/>
14-16				

Semester 2

Course	Credits	Grade		✓
ENGL 102: Composition & Rhetoric II	3	C*		<input type="checkbox"/>
CHEM 102/112: Principles of Chemistry II with Lab	4	C		<input type="checkbox"/>
MATH 104: College Trigonometry (If you took MATH 107, take an Elective)	3	C		<input type="checkbox"/>
General Education Course	3			<input type="checkbox"/>
General Education Course	2-3			<input type="checkbox"/>
15-16				

Semester 3

Course	Credits	Grade		✓
CHEM 210: Chemical Health & 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	3			<input type="checkbox"/>
General Education Course	3			<input type="checkbox"/>
16				

Semester 4

Course	Credits	Grade		✓
PHYS 201: University Physics with Calculus, Part 1	4			<input type="checkbox"/>
Concentration Elective	4			<input type="checkbox"/>
General Education Course	4			<input type="checkbox"/>
Elective/Minor	3			<input type="checkbox"/>
15				



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 four years. Take them in the recommended semester to stay on track! If you see a recommended minimum grade, this 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.
- All Chemistry majors must choose an emphasis: discuss with your advisor. 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.

Semester 5

Course	Credits	Grade	✓
CHEM 351/357: Analytical Chemistry with Lab	5		<input type="checkbox"/>
PHYS 202: University Physics with Calculus, Part 2	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>
15			

Semester 6

Course	Credits	Grade	✓
Chemistry Foundational Elective	3-4		<input type="checkbox"/>
CHEM 341/347: Biochemistry with Lab	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
MATH or CS Elective	3		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>
16-17			

Semester 7

Course	Credits	Grade	✓
MATH or CS Elective	3		<input type="checkbox"/>
Concentration Elective	4		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>
16			

Semester 8

Course	Credits	Grade	✓
Concentration Elective	4		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>
Elective/Minor	3		<input type="checkbox"/>
13			

**ADVISING**

When you choose to pursue this degree, you will be assigned an advisor who is an expert in the field of Chemistry. This advisor can 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.

Consult with your advisor to ensure your chosen emphasis is in line with your career goals.

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.