

FOUR-YEAR PLAN

Chemistry—3+1 Health Sciences, B.S.

15% Finish



Semester 1

Course	Credits	Grade	✓
ENGL 101: Composition & Rhetoric I	3	C*	<input type="checkbox"/>
BIOL 121/L: Foundations of Biology I with Lab	4		<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"/>
UNIV 100: CU Foundations	1		<input type="checkbox"/>
	15		

Semester 2

Course	Credits	Grade	✓
ENGL 102: Composition & Rhetoric II	3	C*	<input type="checkbox"/>
General Education Course	2-3		<input type="checkbox"/>
BIOL 122/L: Foundations of Biology II with Lab	4		<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"/>
	16-17		

Semester 3

Course	Credits	Grade	✓
COMM 101: Fundamentals of Speech	3		<input type="checkbox"/>
BIOL 335/L: Anatomy & Physiology I with Lab	4		<input type="checkbox"/>
CHEM 210: Chemical Laboratory Safety	1		<input type="checkbox"/>
CHEM 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"/>
	17		

Semester 4

Course	Credits	Grade	✓
General Education Course	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
BIOL 336/L: Anatomy & Physiology II with Lab	4		<input type="checkbox"/>
PHYS 201: University Physics with Calculus, Part 1	4		<input type="checkbox"/>
Concentration Elective	4		
	18		



The **Bachelor of Science in Chemistry—3+1 Health Sciences** degree provides complete foundational coursework introducing each of the five major branches of chemistry: Analytical Chemistry, organic chemistry, biochemistry, physical chemistry, and inorganic chemistry. This program integrates a senior-year, off-campus residency at a School of Pharmacy or School of Medical Technology.



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.
- Students may take PHYS 101 and 102 instead of PHYS 201 and 202.

Semester 5

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

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Semester 6

Course	Credits	Grade	✓
General Education Course	3		<input type="checkbox"/>
General Education Course	3		<input type="checkbox"/>
BIOL 329: Microbiology	4		<input type="checkbox"/>
CHEM 341/347: Biochemistry with Lab	4		<input type="checkbox"/>
MATH or CS Elective	3		<input type="checkbox"/>
MATH or CS Elective	3		<input type="checkbox"/>

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Semester 7

Course	Credits	Grade	✓
CHEM 460: Pharmacy Practicum	15		<input type="checkbox"/>

15

Semester 8

Course	Credits	Grade	✓
Concentration Elective	15		<input type="checkbox"/>

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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

A degree in Chemistry—3+1 Health Sciences will prepare you for careers such as: Pharmacist, Clinical Laboratory Scientist, Medical Technologist.

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)

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.
 - GRE (for grad school) after Semester 6.
 - Apply to grad schools December of Semester 7.
- Students who do not obtain admission to an approved school of pharmacy or medical technology will have to take CHEM 335 and pursue a different Chemistry elective concentration during their senior year.

