

Chemistry—3+1 Health Sciences

Bachelor of Science



Semester 1

Course	Credits	Grade	✓
ENGL 101: Composition & Rhetoric I	3	C*	 ☐
BIOL 121/L: Foundations of Biology I with Lab	4		☐
CHEM 101/111: Principles of Chemistry I with Lab	4	C	 ☐
MATH 103: College Algebra or MATH 107: Precalculus	3-4	C	 ☐
UNIV 100: CU Foundations	1		☐

15-16

Semester 2

Course	Credits	Grade	✓
ENGL 102: Composition & Rhetoric II	3	C*	 ☐
BIOL 122/L: Foundations of Biology II with Lab	4		☐
CHEM 102/112: Principles of Chemistry II with Lab	4	C	 ☐
MATH 104: College Trigonometry (If you took MATH 107, take an Elective)	3	C	 ☐
General Education Course	2-3		☐

16-17

Semester 3

Course	Credits	Grade	✓
BIOL 335/L: Anatomy & Physiology I with Lab	4		☐
CHEM 210: Chemical Health & Safety	1		☐
PHSC 219: Laboratory Research Methods	1		☐
CHEM 331: Organic Chemistry I	4	C	 ☐
MATH 253: Calculus with Analytic Geometry I	4	C	 ☐
General Education Course	3		☐

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Semester 4

Course	Credits	Grade	✓
BIOL 336/L: Anatomy & Physiology II with Lab	4		☐
PHYS 201: University Physics with Calculus, Part 1	4		☐
CHEM 332/L: Organic Chemistry II with Lab	4		☐
General Education Course	3		☐

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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 instead of PHYS 201.

Semester 5

Course	Credits	Grade	✓
CHEM 351/357: Analytical Chemistry with Lab	5		☐
General Education Course	3		☐
General Education Course	3		☐
General Education Course	3		☐

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Semester 6

Course	Credits	Grade	✓
BIOL 329: Microbiology	4		☐
CHEM 341/347: Biochemistry with Lab	4		☐
MATH 105: Elementary Statistics	3		☐
General Education Course	3		☐
General Education Course	3		☐

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Semester 7

Course	Credits	Grade	✓
CHEM 460: Chemistry Practicum	15		☐

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Semester 8

Course	Credits	Grade	✓
CHEM 460: Chemistry Practicum	15		☐

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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
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 pursue a different Chemistry elective concentration during their senior year.

