



University of Montana - Four-Year Academic Plan 2024-2025

College of Humanities and Sciences

Bachelor of Science in Computational Biochemistry

This is an example of a four-year graduation plan for a degree in Computational Biochemistry.

This is a sample academic plan. Students should meet with an academic advisor prior to registration to formulate their own plan.

		Year 2		Year 3		Year 4	
		Fall	Spring	Fall	Spring	Fall	Spring
CHMY 141N/142N - College Chemistry I/Lab	5	CHMY 221 - Organic Chemistry I	3	BCH 480 - Advanced Biochemistry I	3	CHMY 311 - Analytical Chem-Quant Analysis	4
M171 - Calculus I	4	CHMY 222 - Organic Chemistry I Lab	2	CHMY 373 - Phys Chem-Kntcs & Thermodynamics	4	Upper Division Biochemistry Electives	6
BIOB 160/161N - Principles Living Systems/Lab	4	PHSX 215/216 - Fund of Physics w/ Calculus I & Physics Lab I w/ Calculus	5	BIOB 486 - Genomics	3	General Education Requirement	3
CSCI150 - Fund of Computer Science	3	CSCI 152 Fund of Comp Sci II	3	CSCI 232 - Data Structures & Algorithms	4	CSCI 451 - Computational Biology	3
		Intermediate Writing Course ¹	3	CSCI 315E - Computers, Ethics & Society	3		
Credits	16	Credits	16	Credits	17	Credit	16
Spring		Spring		Spring		Spring	
CHMY 143N/144N - College Chemistry II/Lab	5	CHMY 223 - Organic Chemistry II	3	BCH 482 - Advanced Biochemistry II	3	CHMY 421 - Advanced Instrument Analysis	4
M172 - Calculus II	4	CHMY 224 - Organic Chemistry II Lab	2	BCH 486 - Biochemistry Research Lab	3	Upper Division Biochemistry Electives	3
CSCI 151 - Fund of Computer Science 1	3	PHSX 217N/218N - Fund of Physics w/ Calculus II & Physics Lab II w/ Calculus II	5	General Education Requirements	9	General Education Requirement	6
WRIT 101 - College Writing	3	BIOB 272 - Genetics & Evolution	4				
		BCH 294 - Seminar/Workshop	1				
Credits	15	Credits	15	Credits	15	Credits	13
Summer		Summer		Summer		Summer	
Credits	0	Credits	0	Credits	0	Credits	0
Total Credits	31	Total Credits	62	Total Credits	94	Total Credits	123

Notes:

¹See approved courses at <http://catalog.umd.edu/academics/general-education-requirements/> under the Group I: Writing tab. This course may fulfill a Gen Ed requirement, too, in which case a student can take 3 more credits of upper division elective in place of 3 credits of Gen Ed in Year 4.

ElevateU Career Readiness Plan

GRADUATE CAREER-READY BY GETTING INVOLVED IN THE BELOW ACTIVITIES WHILE AT UM.

Discover how your strengths, values, and interests relate to career and education pathways.

- Take the Strong Interest Inventory or other career assessments to see what careers may be a good fit for you.*
- Download the Handshake app and activate your account to explore jobs*
- Attend "careers and opportunities" fairs and join a First Time at the Fair tour*
- Join student groups that align with your interests*
- Explore career options at What Can I Do With This Major? (click on "Major Exploration")*
- Learn about specific occupations on O*Net Online
- Schedule an appointment for Career Planning and Major Exploration

EXPLORE Pathways for you

- Meet employers at career fairs and events*
- Develop a stellar resume and cover letter*
- Practice interview skills
- Learn how to negotiate your salary and benefits package
- Fine-tune your LinkedIn profile
- Apply for jobs, graduate/professional school, or national service
- Schedule an appointment for Resume, Cover letter, Interview Prep, Personal Statement, LinkedIn, Graduate School Planning

Refine your personal brand and develop stand-out application materials to achieve your goals

- Students in the following Schools and Colleges have additional access to the following career services:**
- College of Business Career Development Center
 - Career Trailhead professional readiness program
 - College of Humanities and Sciences Career Planning Center

Participate in experiential (hands-on) learning to refine your interests and goals.

- Seek and apply for internships or part-time jobs on Handshake*
- Participate in Volunteer Programs*
- Consider studying abroad or at another US university for a semester or year*
- Consider an internship abroad*
- Conduct undergraduate research at UM*
 - Secure a paid micro-internship
 - Participate in the Griz Career Skills Program
 - Schedule an appointment for Internship Search, International Internship Search, National Student Exchange, Job Search Strategies, and Handshake How-To

EXPERIENCE and Grow

- Strengthen relationships with faculty and supervisors who can guide and recommend you*
- Connect with alumni in fields or companies of interest through the Griz Career Network
- Expand your network to gain insights and support through LinkedIn
- Conduct career conversations with professionals in fields of interest
- Gain industry and company-specific skills through free Forage job simulations
- Schedule an appointment to discuss Networking Strategies, LinkedIn, Graduate School Planning

EMBRACE Your Goals

Develop skills and network to help you pursue your goals

YOUR CAREER SUPPORT OFFICES AT UM

Experiential Learning & Career Success (ELCS) is for all UM students!

- Davidson Honors College Career Development Program
- School of Law Career Development Office
- Missoula College Career Services

