



UNIVERSITY OF

**MONTANA**

**University of Montana - Four-Year Academic Plan 2023-2024**

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 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
CHMY 141/142 - 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 & Thrmodynms	4	Upper Division Biochemistry Electives	6
BIOB 160/161 - 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 <sup>1</sup>	3	CSCI 315E - Computers, Ethics & Society	3		
Credits	16	Credits	16	Credits	17	Credit	16
Spring		Spring		Spring		Spring	
CHMY 143/144 - 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 217/218 - 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
<b>Total Credits</b>	<b>31</b>	<b>Total Credits</b>	<b>62</b>	<b>Total Credits</b>	<b>94</b>	<b>Total Credits</b>	<b>123</b>

**Notes:**

<sup>1</sup>See approved courses at <http://catalog.umt.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*

**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*

- 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

**ELEVATE**  
*to Your Career*

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

**EMBRACE**  
*Your Goals*

- 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
- 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!**

**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](#)
- [Davidson Honors College Career Development Program](#)
- [School of Law Career Development Office](#)
- [Missoula College Career Services](#)

