



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

College of Humanities and Sciences

Bachelor of Arts in Physics, Computational Physics Concentration

This is an example of a four year graduation plan for a degree in Physics with a Concentration in Computational Physics.
 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	
PHSX 215N/216N - Fund of Physics w/calc I /Lab	5	PHSX 311 - Oscillation & Wave	3			PHSX 423 - Electricity & Magnetism I	3
M 171 Calculus I	4	M 273 - Multivariable Calculus	4	PHSX 343 - Modern Physics	3	PHSX 499 - Senior Capstone	1
PHSX 101 - Freshman Physics Experience	1	M 225 - Introduction to Discrete Mathematics	3	Elective	5	CSCI 323 - Data Structures & Algorithms	3
CSC 150 - Fund of Computer Science	3	General Education Requirement	3	General Ed Requirement	6	Physics Major Elective	3
HUSC 194 - H&S Freshman Seminar	1	CSCI 152 Fund of Comp Sci II	3			Elective	2
Elective	2						
Credits	16	Credits	16	Credits	14	Credit	12
Spring		Spring		Spring		Spring	
PHSX 217N/218N - Fund of Physics w/calc II /Lab	5	PHSX 301 - Intro Theoretical Physics	3	PHSX 320 - Classical Mechanics	3	PHSX 333 - Computational Physics	3
M 172 - Calculus II	4	M 221 - Introduction to Linear Algebra	4	PHSX 330 - Communicating Physics	3	CSCI 340 - Database Design	3
CSCI 151 - Fund of Computer Science 1	3	CSCI 361 - Computer Architecture	3	CSCI 332 - Design/Analysis of Algorithms	3	Physics Major Elective	3
WRIT 101 - College Writing	3	General Education Requirement	3	Elective	6	General Education Requirements	6
		CSCI 232 Data Structures and Algo	4				
Credits	15	Credits	17	Credits	15	Credits	15
Summer		Summer		Summer		Summer	
Credits	0	Credits	0	Credits	0	Credits	0
Total Credits	31	Total Credits	64	Total Credits	93	Total Credits	120
Notes:							
See catalog or Advising Office for more details.							

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](#)

