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

Name of College: College of Humanities and Sciences

Name of Degree: Computer Science- Algorithm Design

This is an example of a four year graduation plan for a degree in Computer Science

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**		
CSCI 150	Introduction to Programming	3	CSCI 152	Interdisciplinary Computer Science II	3	CSCI 332	Design/Analysis of	3		Gen Ed. Elective	3
CSCI 106	Careers in Comupter Science	1	M 171	Calculus	4		Science Elective (3-5 cr.)	3		CS Core Elective	3
COMM 111	Public Speaking	3	CSCI 258	Web Application Dev (Coreq 152)	3		Intermediate Wrting Course	3		CS Core Elective	3
	Gen Ed Elective	3		Lab Science seq I (4-5 cr.)	5	CSCI 340	Database Design	3		CS Core Elective	3
	Gen Ed Elective	3				M 172	Calculus II	3	STAT 341	Intro to Prob and Stats	3
Credits		13	Credits		15	Credits		15	Credit		15
Spring			**Spring**			**Spring**			**Spring**		
CSCI 151	Interdisciplinary Computer Science	3	CSCI 232	Interm DSA	3	CSCI 315E	Computers, Ethics &	3		Gen Ed. Elective	3
WRIT 101	College Writing	3	M 225	Discrete Math (*Coreq for CSCI 232*)	3		Science Elective (3-5 cr.)	3		CS Core Elective	3
	Gen Ed Elective	3	CSCI 361	Computer Architecture	3		Gen Ed. Elective	3		CS Core Elective	3
	Gen Ed Elective	3		Lab Science seq (4-5 cr.)	5	CSCI 432	Advanced Alg Design	3		CS Core Elective	3
Math	M 121, 122 or 151 if needed[1]	4		Gen ed elective	3	M 221	Linear Algebra	3		UD Math Elective	3
Credits		16	Credits		17	Credits		15	Credits		15
Summer			**Summer**			**Summer**			**Summer**		
Credits		0	Credits		0	Credits		0	Credits		0
Total Credits		29	**Total Credits**		61	**Total Credits**		91	**Total Credits**		121

Notes:

See catalog or DBS Advising Office for more details.

[1] Prepratory course - no credit towards degree, must be taken at this time to assure progression through degree

[2] Math 162 will not be accepted for this concentration

CS Core Elective is any 300 or higher level CS course

Advanced Software Elective	CSCI 400: Digital Entrepreneurship; CSCI 443: User Interface Design; CSCI 444 Data Visualization; CSCI 398 (or CSCI 498) Internship
Upper Division Math Elective	M361 Discrete Optimization, M362 Linear Optimization, M414 Deterministic Models, M440 Numerical Analysis, M485 Graph Theory, STAT421 Probability The

ElevateU Career Readiness Plan
GRADUATE CAREER-READY BY GETTING INVOLVED IN THE BELOW ACTIVITIES WHILE AT UM.

EXPLORE
Pathways for you

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

EXPERIENCE
and Grow

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

ELEVATE
to Your Career

- 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

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

*The elements of ElevateU can be done in any order. For the best outcomes, we recommend getting started with items marked with a * in your first two years, though most of them can be done at any time.*