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

**Name of College:** College of Humanities and Sciences  
**Name of Degree:** Computer Science - Software Engineering

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

<table>
<thead>
<tr>
<th>Fall</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 150</td>
<td>Introduction to Programming</td>
<td>3</td>
<td>CSCI 152</td>
<td>Interdisciplinary Computer Science II</td>
</tr>
<tr>
<td>CSCI 106</td>
<td>Careers in Computer Science</td>
<td>4</td>
<td>M 171</td>
<td>Calculus</td>
</tr>
<tr>
<td>COMM 111</td>
<td>Public Speaking</td>
<td>3</td>
<td>CSCI 258</td>
<td>Web Application Dev (Coreq 152)</td>
</tr>
<tr>
<td>Gen Ed Elective</td>
<td>Lab Science seq I (4-5 cr.)</td>
<td>5</td>
<td>CSCI 1340</td>
<td>Database Design</td>
</tr>
<tr>
<td>Gen Ed Elective</td>
<td></td>
<td>3</td>
<td></td>
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</tbody>
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### Credits

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

### Spring

<table>
<thead>
<tr>
<th>Fall</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 151</td>
<td>Interdisciplinary Computer Science I</td>
<td>3</td>
<td>CSCI 232</td>
<td>Interim DSA</td>
</tr>
<tr>
<td>WRIT 101</td>
<td>College Writing</td>
<td>3</td>
<td>M 225</td>
<td>Discrete Math (Coreq for CSCI 232)</td>
</tr>
<tr>
<td>Gen Ed Elective</td>
<td></td>
<td>3</td>
<td>Gen Ed Elective</td>
<td></td>
</tr>
<tr>
<td>CSCI 181</td>
<td>Web Design and Programming</td>
<td>3</td>
<td>Lab Science seq II (4-5 cr.)</td>
<td>5</td>
</tr>
<tr>
<td>Math</td>
<td>M 121, 122 or 151 if needed¹</td>
<td>4</td>
<td>CSCI 322</td>
<td>Adv Web App Dev</td>
</tr>
</tbody>
</table>

### Credits

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
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<tr>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

### Summer

<table>
<thead>
<tr>
<th>Fall</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Fall</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 400/443</td>
<td></td>
<td></td>
<td></td>
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</table>

### Credits

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
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<td>0</td>
<td></td>
</tr>
</tbody>
</table>

### Total Credits

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Total Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:

- See catalog or DBS Advising Office for more details.
- ¹ Preparatory course - no credit towards degree, must be taken at this time to assure progression through degree.
- 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.

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### 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

### Experience
and Grow

- 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

- 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

### Embrace
Your Goals

- 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  

**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  
- Davidson Honors College Career Development Program  
- Career Trailhead professional readiness program  
- School of Law Career Development Office  
- College of Humanities and Sciences Career Planning Center  
- 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.