# Computer Science Bachelor of Arts

## Freshman Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 107 - Joy and Beauty of Computing</td>
<td>Fall 3</td>
</tr>
<tr>
<td>STAT 216Q - Introduction to Statistics</td>
<td>Fall 3</td>
</tr>
<tr>
<td>WRIT 101W - College Writing I</td>
<td>Fall 3</td>
</tr>
<tr>
<td>University CORE</td>
<td>Fall 3</td>
</tr>
<tr>
<td>Broadening Coursework</td>
<td>Fall 3</td>
</tr>
<tr>
<td>CSCI 127 - Joy and Beauty of Data</td>
<td>Spring 4</td>
</tr>
<tr>
<td>STAT 217Q - Intermediate Statistical Concepts</td>
<td>Spring 3</td>
</tr>
<tr>
<td>University Seminar CORE</td>
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</tr>
<tr>
<td>University CORE</td>
<td>Spring 3</td>
</tr>
<tr>
<td>Broadening Coursework</td>
<td>Spring 3</td>
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**Year Total:**

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Credits</td>
<td>15</td>
<td>16</td>
</tr>
</tbody>
</table>

## Sophomore Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 132 - Basic Data Structures and Algorithms</td>
<td>Fall 4</td>
</tr>
<tr>
<td>M 165Q - Calculus for Technology I</td>
<td>Fall 3</td>
</tr>
<tr>
<td>University CORE</td>
<td>Fall 3</td>
</tr>
<tr>
<td>Broadening Coursework</td>
<td>Fall 6</td>
</tr>
<tr>
<td>CSCI 232 - Data Structures and Algorithms</td>
<td>Spring 4</td>
</tr>
<tr>
<td>CSCI 246 - Discrete Structures</td>
<td>Spring 3</td>
</tr>
<tr>
<td>WRIT 221 - Intermediate Tech Writing</td>
<td>Spring 3</td>
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<tr>
<td>Broadening Coursework</td>
<td>Spring 6</td>
</tr>
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</table>

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<tr>
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## Junior Year

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ESOF 322 - Software Engineering</td>
<td>Fall 3</td>
</tr>
<tr>
<td>CS Elective</td>
<td>Fall 3</td>
</tr>
<tr>
<td>University CORE</td>
<td>Fall 3</td>
</tr>
<tr>
<td>Broadening Coursework</td>
<td>Fall 6</td>
</tr>
<tr>
<td>CS Electives</td>
<td>Spring 6</td>
</tr>
<tr>
<td>University CORE</td>
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</tr>
<tr>
<td>Broadening Coursework</td>
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**Year Total:**

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## Senior Year

<table>
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<tr>
<th>Course</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CS Electives</td>
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</tr>
<tr>
<td>Broadening Coursework</td>
<td>Fall 5</td>
</tr>
<tr>
<td>Elective</td>
<td>Fall 3</td>
</tr>
<tr>
<td>ESOF 423 - Software Engineering Application</td>
<td>Fall 3</td>
</tr>
<tr>
<td>CSCI 481 - Program Assessment</td>
<td>Fall 0</td>
</tr>
<tr>
<td>CS Electives</td>
<td>Fall 4</td>
</tr>
<tr>
<td>Broadening Coursework</td>
<td>Fall 6</td>
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**Year Total:**

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<th>Spring</th>
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<tbody>
<tr>
<td>Credits</td>
<td>14</td>
<td>13</td>
</tr>
</tbody>
</table>

**Total Program Credits:** 120

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**Broadening Coursework:**
The Computer Science B.A must be paired with one of following tracks:

- Track 1: completion of an approved complimentary major,
- Track 2: completion of an approved complimentary minor AND the first year of a modern language. (101 & 102D in ARAB, CHIN, FRCH, GRMN, JPNS or SPNS), or
- Track 3: completion of a faculty-approved Plan which must include the first year of a modern language. (101 & 102D in ARAB, CHIN, FRCH, GRMN, JPNS or SPNS)

### Track One: Approved Complimentary Majors

- College of Arts and Architecture ([http://catalog.montana.edu/undergraduate/artsarchitecture/](http://catalog.montana.edu/undergraduate/artsarchitecture/))
  - Art (B.A. and B.F.A.)
  - Environmental Design
  - Film and Photography
  - Music
  - Music Technology
  - Music Education

- College of Education, Health ([http://catalog.montana.edu/undergraduate/education-human-development](http://catalog.montana.edu/undergraduate/education-human-development))
  - Elementary Education K-8
  - Secondary Education
  - Technology Education
  - Community Health
  - Early Childhood Education and Child Services
  - Food and Nutrition
  - Health and Human Performance
  - Health Enhancement (Health and Physical Education)
  - Hospitality Management
  - Human Development and Family Science
  - Sustainable Food & Bioenergy Systems

- Jake Jabs College of Business and Entrepreneurship ([http://catalog.montana.edu/undergraduate/business/](http://catalog.montana.edu/undergraduate/business/))
  - Accounting
  - Finance
  - Management
  - Marketing

- College of Letters and Science ([http://catalog.montana.edu/undergraduate/letters-science/](http://catalog.montana.edu/undergraduate/letters-science/))
  - American Studies
  - Asian Studies
  - Anthropology
  - Economics
  - English
  - History
  - Liberal Studies
  - Modern Languages and Literature
  - Philosophy
  - Political Science
  - Psychology
  - Sociology
College of Nursing (http://catalog.montana.edu/undergraduate/nursing/
#undergraduate text)

- Nursing

**Track Two: Approved Complimentary Minors**
In addition to any of the minors listed below the first year of a modern language (101 & 102D in ARAB, CHIN, FRCH, GRMN, JPNS or SPNS) must be completed.

**College of Arts and Architecture**
- Art History Minor (http://catalog.montana.edu/undergraduate/artsarchitecture/art/art-history-minor-nonteaching/): 27 credits
- Music Minor (http://catalog.montana.edu/undergraduate/artsarchitecture/music/music-minor-nonteaching/): 28 credits
- Photography Minor (http://catalog.montana.edu/undergraduate/artsarchitecture/film-photography/photography-minor-nonteaching/): 28 credits

**College of Education, Health and Human Development**
- Coaching Minor (http://catalog.montana.edu/undergraduate/education-health-human-development/health-human-development/coaching_minor/): 28-30 credits
- Gerontology Certificate (http://catalog.montana.edu/undergraduate/education-health-human-development/health-human-development/gerontology/): all listed courses for 21 credits plus advisor-approved coursework to reach 27 credits.
- Human Development Minor (http://catalog.montana.edu/undergraduate/education-health-human-development/health-human-development/human_development_minor/): 24 credits plus 3 more credits from the minor to reach 27 credits.

**College of Letters and Science**
- Anthropology Minor (http://catalog.montana.edu/undergraduate/letters-science/anthropology/anthropology-minor-nonteaching/): 21 credits plus advisor-approved Anthropology coursework to reach 27 credits.
- Asian Studies Minor (http://catalog.montana.edu/undergraduate/letters-science/asian-studies-minor/): 21 credits plus advisor-approved BA coursework to reach 27 credits.
- China Studies Minor (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/china-studies-minor-nonteaching/): 28 credits
- English Literature Minor (http://catalog.montana.edu/undergraduate/letters-science/english/english-minor-literature-nonteaching/): 21 credits plus advisor-approved BA coursework to reach 27 credits.
- English Writing Minor (http://catalog.montana.edu/undergraduate/letters-science/english/english-minor-writing-nonteaching/): 21 credits plus advisor-approved BA coursework to reach 27 credits.
- French Minor (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/french-minor-nonteaching/): 27 credits
- German Minor (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/german-minor-nonteaching/): 27 credits
- Hispanic Studies Minor (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/hispanic-studies-minor-nonteaching/): 27 credits
- History Minor (http://catalog.montana.edu/undergraduate/letters-science/history/history-minor-nonteaching/): 22-25 credits plus advisor-approved BA coursework to reach 27 credits
- Japan Studies Minor (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/japan-studies-minor-nonteaching/): 23-26 credits plus advisor-approved BA coursework to reach 27 credits.
- Latin American and Latino Studies Minor (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/latin-american-latino-studies-minor-nonteaching/): 28 credits
- Native American Studies Minor (http://catalog.montana.edu/undergraduate/letters-science/native-american-studies/native-american-studies-minor-nonteaching/): 21 credits plus advisor-approved BA coursework to reach 27 credits.
- Philosophy Minor (http://catalog.montana.edu/undergraduate/letters-science/philosophy/philosophy-minor-nonteaching/): 21 credits plus advisor-approved BA coursework to reach 27 credits.
- Psychology Minor (http://catalog.montana.edu/undergraduate/letters-science/psychology/psychology-minor-nonteaching/): 23 credits plus (PSYX 490 or PSYX 495, 3 credits) plus (PSYX 499, 3 credits): 29 credits

**Jake Jabs College of Business and Entrepreneurship**
- Accounting Minor (http://catalog.montana.edu/undergraduate/business-business-minors/accounting-minor/): 24 credits plus a fourth 3-credit accounting elective to reach 27 credits
- Business Administration Minor (http://catalog.montana.edu/undergraduate/business-business-minors/business-administration-minor/): 30 credits
- Finance Minor (http://catalog.montana.edu/undergraduate/business-business-minors/finance-minor/): 30 credits
- International Business Minor (http://catalog.montana.edu/undergraduate/business-business-minors/international-business-minor/): 30 credits

**Track Three: Faculty Approved Plan**

### College of Agriculture

**Agricultural Business Plan: 33 credits**

<table>
<thead>
<tr>
<th>Course List</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses (24 Credits)</strong></td>
<td></td>
</tr>
<tr>
<td>ECNS 101IS</td>
<td>Economic Way of Thinking</td>
</tr>
<tr>
<td>ECNS 202</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ECNS 204IS</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>ECNS 301</td>
<td>Intermediate Micro with Calc</td>
</tr>
<tr>
<td>ACTG 201</td>
<td>Principles of Financial Acct</td>
</tr>
<tr>
<td>AGBE 321</td>
<td>Economics of Ag Marketing</td>
</tr>
<tr>
<td>AGBE 341</td>
<td>Farm and Ranch Management</td>
</tr>
<tr>
<td>AGBE 345</td>
<td>Ag Finance and Credit Analysis</td>
</tr>
<tr>
<td><strong>Targeted Economics Elective Courses - Choose Two (6 credits)</strong></td>
<td></td>
</tr>
</tbody>
</table>
AGBE 421  Advanced Ag Marketing  3  
AGBE 445  Agribusiness Management  3  
AGBE 451RS  Economics of Ag Policy  3  
ECNS 309  Managerial Economics  3  
ECNS 312  Labor Economics  3  
ECNS 313  Money and Banking  3  
ECNS 314  International Economics  3  
ECNS 317  Economic Development  3  
ECNS 320  Public Finance  3  
ECNS 332  Econ of Natural Resources  3  

Targeted Data Analysis Elective Courses - Choose One (3 Credits)
ECNS 403R  Intro to Econometrics  3  
GPHY 284  Intro to GIS Science & Cartog  3  

Total Credits  33

Notes: Supporting courses include STAT 216Q and M 161Q or M 171Q. Students in the Computer Science B.A. program will be allowed to substitute M 165Q for the M 161Q/M 171Q calculus requirements. ECNS 251ISHonors Economics (4 credits) may be substituted for the Three-course sequence: ECNS 251IS ECNS 202, and ECNS 204IS. Students completing this plan would also receive credits required for the minor.

Course List
Political Science Plan: 27 credits

Required Courses: By completing this plan, you will also earn a Political Science Non-Teaching Minor
PSCI 201  Scope and Methods of Political Science  3  
PSCI 210IS  Introduction to American Government  3  
PSCI 230D  Introduction to International Relations  3  
PSCI 240  Introduction to Public Administration  3  
PSCI 250  Introduction to Political Theory  3  
Upper Division Elective Courses (12 credits)
  Earn 12 credits form any upper-level PSCI courses

Total Credits  27

Applied Economics Plan: 27 Credits

Required Courses (18 Credits)
ECNS 101IS  Economic Way of Thinking  3  
ECNS 202  Principles of Macroeconomics  3  
ECNS 204IS  Microeconomics  3  
ECNS 301  Intermediate Micro with Calc  3  
ECNS 303  Intermediate Macro with Calc  3  
ECNS 403R  Intro to Econometrics  3  
ECNS 320  Public Finance  3  
ECNS 332  Econ of Natural Resources  3  
ECNS 345  Econ Org, Finance & Credit  3  
ECNS 432R  Benefit-Cost Analysis  3  

Notes: Supporting courses include STAT 216Q and M 161Q or M 171Q. Students in the Computer Science B.A. program will be allowed to substitute M 165Q for the M 161Q/M 171Q calculus requirements. ECNS 251ISHonors Economics (4 credits) may be substituted for the Three-course sequence: ECNS 251IS ECNS 202, and ECNS 204IS. Students completing this plan would also receive credits required for the minor.

Honors College Plan 27 Credits.
  • 27 credits that include 8 upper division credits as follows:
    • HONR 123, or HONR 124- 1 credit
    • HONR 131(for transfer students) - 4 credits
    • Text and Critics (Select one option)
      • HONR 201USand HONR 202IH- 8 credits
      • HONR 301US (for transfer students) - 4 credits
      • HONR 450(Student Fellow) - 4 credits
    • Additional non-STEM honors courses to bring the credit total to 27. These courses include 400- level Honors Seminars, Honors Tutorials or Honors Independent Studies, Honors Special Topic Courses, Honors Sociology, Economics, Psychology, Music and Society, Mentoring Gifted Students, Great Expeditions, etc.

Custom Plan.
  • 27 Credits. If you are interested in using a plan other than the ones listed above, you may work with appropriate faculty to develop a custom plan. The plan must be approved by the appropriate parties. Meet with John Paxton to learn more.

HONR 123, or HONR 124- 1 credit
HONR 131(for transfer students) - 4 credits
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Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.