

# Computer Science Bachelor of Arts

Freshman Year	Credits	
	Fall	Spring
CSCI 107 - Joy and Beauty of Computing	3	
STAT 216Q - Introduction to Statistics	3	
WRIT 101W - College Writing I	3	
University CORE	3	
Broadening Coursework	3	
CSCI 127 - Joy and Beauty of Data		4
STAT 217 - Intermediate Statistical Concepts or STAT 337 - Intermediate Statistics with Introduction to Statistical Computing		3
University Seminar CORE		3
University CORE		3
Broadening Coursework		3
Year Total:	15	16
Sophomore Year	Credits	
	Fall	Spring
CSCI 132 - Basic Data Structures and Algorithms	4	
M 165Q - Calculus for Technology I	3	
University CORE	3	
Broadening Coursework	6	
CSCI 232 - Data Structures and Algorithms		4
CSCI 246 - Discrete Structures		3
WRIT 221 - Intermediate Tech Writing		3
Broadening Coursework		6
Year Total:	16	16
Junior Year	Credits	
	Fall	Spring
ESOF 322 - Software Engineering	3	
CS Elective	3	
University CORE	3	
Broadening Coursework	6	
CS Electives		6
University CORE		3
Broadening Coursework		6
Year Total:	15	15
Senior Year	Credits	
	Fall	Spring
CS Electives	6	
Broadening Coursework	5	
Elective	3	
ESOF 423 - Software Engineering Applications		3
CSCI 481 - Program Assessment		0
CS Electives		4
Broadening Coursework		6
Year Total:	14	13
<b>Total Program Credits:</b>	<b>120</b>	

## 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/>)

- 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-health-human-development/>) and Human Development (<http://catalog.montana.edu/undergraduate/education-health-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/#undergraduatetext>)

- Accounting
- Finance
- Management
- Marketing

College of Letters and 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/#undergraduatetext>)

- 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

### College of Education, Health and Human Development

- Coaching Minor ([http://catalog.montana.edu/undergraduate/education-health-human-development/health-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/](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.
- Personal and Consumer Finance Minor (<http://catalog.montana.edu/undergraduate/education-health-human-development/personal-finance/>): 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/>): 21-24 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.s
- 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 Jobs 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
- Entrepreneurship and Small Business Management Minor (<http://catalog.montana.edu/undergraduate/business/business-minors/entrepreneurship-and-small-business-management-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

##### Course List

##### Required Courses (24 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
ACTG 201	Principles of Financial Accounting	3
AGBE 321	Economics of Agricultural Marketing	3
AGBE 341	Farm and Ranch Management	3
AGBE 345	Agriculture Finance and Credit Analysis	3
Targeted Economics Elective Courses - Choose Two (6 credits)		
AGBE 421	Advanced Agricultural 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
<b>Total Credits</b>		<b>33</b>

**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 251IS Honors 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 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 (15 credits)		
Earn 15 credits from any upper-level PSCI courses		
<b>Total Credits</b>		<b>27</b>

#### 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
Targeted Elective Courses- Choose Three (9 Credits)		
AGBE 321	Economics of Agricultural Marketing	3
AGBE 345	Agriculture Finance and Credit Analysis	3
AGBE 421	Advanced Agricultural 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
ECNS 345	Econ Org, Finance & Credit	3
ECNS 432R	Economic Policy Evaluation	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 251IS Honors 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 201US and 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.