**Undergraduate Programs**

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*MSU-Bozeman offers a wide range of programs through its nine academic colleges. Specific degrees, majors, and options are listed under each college. By their junior year, earlier if possible, students will need to select a major; the choice should be based on interests and on plans for the future. Careful consideration should also be given to the courses offered in the major and the requirements for completing the program of study.*

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**College of Agriculture (http://catalog.montana.edu/undergraduate/agriculture/)**

- Bachelor of Science in Agricultural Business (http://catalog.montana.edu/undergraduate/agriculture/agricultural-business/)
  - Agribusiness Management Concentration
  - Farm and Ranch Management Concentration
- Bachelor of Science in Agricultural and Technology Education (http://catalog.montana.edu/undergraduate/agriculture/agricultural-education/)
  - Agricultural Education Broadfield Teaching Option
  - Agricultural Communication, Leadership, and Extension Option
  - Technology Education Broadfield (5-12)
  - Industrial Technology
- Bachelor of Science in Animal Science (http://catalog.montana.edu/undergraduate/agriculture/animal-science/)
  - Equine Science Option
  - Livestock Management and Industry Option
  - Science Option
- Bachelor of Science in Environmental Horticulture (http://catalog.montana.edu/undergraduate/agriculture/environmental-horticulture/)
  - Environmental Horticulture Science Option
  - Landscape Design Option
- Bachelor of Science in Environmental Sciences (http://catalog.montana.edu/undergraduate/agriculture/environmental-sciences/)
  - Environmental Biology Option
  - Environmental Science Option
  - Geospatial and Environmental Analysis Option
  - Land Rehabilitation Option
  - Soil and Water Sciences Option
- Bachelor of Science in Financial Engineering (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/financial-engineering/)
  - Bachelor of Science in Microbiology (http://catalog.montana.edu/undergraduate/agriculture/microbiology/)
    - Microbiology Pre-Veterinary Track
  - Bachelor of Science in Natural Resources and Rangeland Ecology (http://catalog.montana.edu/undergraduate/agriculture/natural-resources-rangeland-ecology/)
    - Rangeland Ecology and Management Option
  - Bachelor of Science in Plant Science (http://catalog.montana.edu/undergraduate/agriculture/plant-science/)
    - Crop Science Option
    - Plant Biology Option
    - Plant Biotechnology
  - Bachelor of Science in Ranching Systems (http://catalog.montana.edu/undergraduate/agriculture/ranching-systems/)
  - Bachelor of Science in Sustainable Food & Bioenergy Systems (http://catalog.montana.edu/undergraduate/agriculture/sustainable-food-bioenergy-systems/)
    - Agroecology Option
    - Sustainable Crop Production Option
    - Sustainable Livestock Production Option
  - Pre-veterinary Medicine Program (http://catalog.montana.edu/undergraduate/agriculture/pre-veterinary-program/)
  - Non-degree program

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**College of Arts and Architecture (http://catalog.montana.edu/undergraduate/artsarchitecture/)**

- Bachelor of Arts in Art (http://catalog.montana.edu/undergraduate/artsarchitecture/art/)
  - Art Education K-12 Broadfield Option
  - Art History Option
  - Liberal Arts Studio Option
- Bachelor of Fine Arts in Art (http://catalog.montana.edu/undergraduate/artsarchitecture/art/)
  - Graphic Design Option
  - Studio Arts Option
- Bachelor of Arts in Environmental Design (http://catalog.montana.edu/undergraduate/artsarchitecture/environmental-design/)
- Bachelor of Arts in Film and Photography (http://catalog.montana.edu/undergraduate/artsarchitecture/film-photography/)
  - Film Option
  - Photography Option
- Bachelor of Fine Arts in Film and Photography (http://catalog.montana.edu/undergraduate/artsarchitecture/film-photography/integrated-lens-based-media/)
  - Integrated Lens-Based Media
- Bachelor of Arts in Music (http://catalog.montana.edu/undergraduate/artsarchitecture/music/)
- Bachelor of Music Education (http://catalog.montana.edu/undergraduate/artsarchitecture/music/ba-music-education/)
- Bachelor of Arts in Music Technology (http://catalog.montana.edu/undergraduate/artsarchitecture/music/ba-music-technology/)
Jake Jabs College of Business & Entrepreneurship (http://catalog.montana.edu/undergraduate/business/)
- Bachelor of Science in Business (http://catalog.montana.edu/undergraduate/business/)
  - Accounting Option
  - Finance Option
  - Management Option
  - Marketing Option

College of Education, Health and Human Development (http://catalog.montana.edu/undergraduate/education-health-human-development/)
- Bachelor of Science in Community Health (http://catalog.montana.edu/undergraduate/education-health-human-development/community-health-major/)
- Bachelor of Science in Early Childhood Education Preschool-Age Three (P-3) (http://catalog.montana.edu/undergraduate/education-health-human-development/early-childhood-education-child-services-major/)
- Bachelor of Science in Elementary Education K-8 (http://catalog.montana.edu/undergraduate/education-health-human-development/elementary-education/)
  - Early Childhood Education Option
  - Mathematics Option
  - Science Education Option
  - Special Education Option
- Bachelor of Science in Food and Nutrition (http://catalog.montana.edu/undergraduate/education-health-human-development/food-nutrition-major/)
  - Dietetics Option
  - Nutrition Science Option
- Bachelor of Science in Secondary Education (http://catalog.montana.edu/undergraduate/education-health-human-development/secondary-education/)
  - General Science Broadfield Option
  - Social Studies Broadfield Option
  - (Departmental Teaching Options)
- Bachelor of Science in Health Enhancement K-12 (Health and Physical Education) (http://catalog.montana.edu/undergraduate/education-health-human-development/health-physical-education-teaching-k12-broadfield-major/)
- Bachelor of Science in Hospitality Management (http://catalog.montana.edu/undergraduate/education-health-human-development/hospitality-management/)
  - Food Enterprise
  - Lodging and Facilities
  - Restaurant Management: Farm to Table
- Bachelor of Science in Human Development and Family Science (http://catalog.montana.edu/undergraduate/education-health-human-development/human-development-family-science-major/)
  - Child Development
  - Family and Consumer Sciences Education Option
  - Human Development and Family Science Option
- Bachelor of Science in Kinesiology (http://catalog.montana.edu/undergraduate/education-health-human-development/kinesiology-exercisescience/)
  - Exercise Science Option
  - Health and Fitness Option
- Bachelor of Science in Sustainable Food & Bioenergy Systems (http://catalog.montana.edu/undergraduate/education-health-human-development/sustainable-food-bioenergy-systems/)
  - Sustainable Food Systems Option
- Certificate of Gerontology (http://catalog.montana.edu/undergraduate/education-health-human-development/gerontology/)

Norm Asbjornson College of Engineering
- Bachelor of Science in Biological Engineering (http://catalog.montana.edu/undergraduate/engineering/chemical-biological-engineering/)
- Bachelor of Science in Biomedical Engineering (http://catalog.montana.edu/undergraduate/engineering/biomedical-engineering/)
- Bachelor of Science in Chemical Engineering (http://catalog.montana.edu/undergraduate/engineering/chemical-biological-engineering/)
- Bachelor of Science in Civil Engineering (http://catalog.montana.edu/undergraduate/engineering/civil-engineering/)
- Bachelor of Science in Computer Engineering (http://catalog.montana.edu/undergraduate/engineering/computer-engineering/)
- Bachelor Degrees in Computer Science (http://catalog.montana.edu/undergraduate/engineering/computer-science/)
  - Bachelor of Science Interdisciplinary Option
  - Bachelor of Science Professional Option
  - Bachelor of Arts in Computer Science
  - Accelerated BS/MS in Computer Science
- Bachelor of Science in Construction Engineering Technology (http://catalog.montana.edu/undergraduate/engineering/civil-engineering/)
- Bachelor of Science in Electrical Engineering (http://catalog.montana.edu/undergraduate/engineering/electrical-computer-engineering/)
- Bachelor of Science in Environmental Engineering (http://catalog.montana.edu/undergraduate/engineering/environmental-engineering/)
- Bachelor of Science in Financial Engineering (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/)
- Bachelor of Science in Industrial and Management Systems Engineering (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/)
- Bachelor of Science in Mechanical Engineering (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/)
- Bachelor of Science in Mechanical Engineering Technology (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/)
- Non-degree programs
  - Military Air and Space Studies (http://catalog.montana.edu/undergraduate/engineering/military-science-airforce-rotc/) - Air Force ROTC
• Military Science (http://catalog.montana.edu/undergraduate/engineering/military-science-army-rotc/) - Army ROTC

College of Letters and Science (http://catalog.montana.edu/undergraduate/letters-science/)
- Bachelor of Arts in American Studies (http://catalog.montana.edu/undergraduate/letters-science/american-studies/)
- Bachelor of Arts in Asian Studies (http://catalog.montana.edu/undergraduate/letters-science/asian_studies/)
- Bachelor of Science in Anthropology (http://catalog.montana.edu/undergraduate/letters-science/anthropology/)
- Bachelor of Science in Biological Sciences (http://catalog.montana.edu/undergraduate/letters-science/biology/)
  - Biology Teaching Option
  - Conservation Biology and Ecology Option
  - Fish and Wildlife Ecology and Management Option
  - Organismal Biology Option
- Bachelor of Science in Chemistry and Biochemistry (http://catalog.montana.edu/undergraduate/letters-science/chemistry-biochemistry/)
  - Biochemistry Option
  - Biochemistry Option: Pre-Med Track
  - Chemistry (Professional) Option
  - Teaching Option
- Bachelor of Science in Earth Sciences (http://catalog.montana.edu/undergraduate/letters-science/earth-sciences/)
  - Geography Option
  - Geology Option
  - GIS/Planning Option
  - Paleontology Option
  - Snow Science Option
- Bachelor of Science in Economics (http://catalog.montana.edu/undergraduate/letters-science/economics/)
- Bachelor of Arts in English (http://catalog.montana.edu/undergraduate/letters-science/english/)
  - Writing Option
  - Teaching Option
  - Literature Option
- Bachelor of Arts in History (http://catalog.montana.edu/undergraduate/letters-science/history/)
  - History Option
  - History Teaching Option
  - Science, Environment, Technology and Society Option (SETS)
- Bachelor of Arts in Liberal Studies (http://catalog.montana.edu/undergraduate/letters-science/liberal-studies/)
  - Environmental Studies Option
  - Global and Multicultural Option
  - Quaternary Option
  - Global Studies Minor
  - Global Studies Health Minor
  - Sustainability Minor
- Bachelor of Science in Mathematics (http://catalog.montana.edu/undergraduate/letters-science/mathematical-sciences/)
  - Applied Mathematics Option
  - Mathematics Option
- Mathematics Teaching Option
- Statistics Option
- Bachelor of Arts in Modern Languages and Literatures (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/)
  - French K-12 Teaching Option
  - French and Francophone Studies Option
  - German K-12 Teaching Option
  - German Studies Option
  - Hispanic Studies Option
  - Latin American and Latino/Latina Studies
  - Spanish K-12 Teaching Option
- Bachelor of Arts in Philosophy (http://catalog.montana.edu/undergraduate/letters-science/philosophy/)
- Bachelor of Science in Physics (http://catalog.montana.edu/undergraduate/letters-science/physics/)
  - Astronomy and Astrophysics Option
  - Physics Professional Option
  - Physics Teaching Option
  - Physics Interdisciplinary Option
- Bachelor of Arts in Political Science (http://catalog.montana.edu/undergraduate/letters-science/political-science/)
- Bachelor of Science in Psychology (http://catalog.montana.edu/undergraduate/letters-science/psychology/)
  - Psychological Science
- Bachelor of Science in Sociology (http://catalog.montana.edu/undergraduate/letters-science/sociology/)
  - General Sociology Option
  - Criminology Option
- Non-degree program
  - Pre-Medical/Pre-Health Professions (http://catalog.montana.edu/undergraduate/letters-science/pre-med-pre-health-professional-programs/)

College of Nursing (http://catalog.montana.edu/undergraduate/nursing/)
- Bachelor of Science in Nursing (http://catalog.montana.edu/undergraduate/nursing/)

Gallatin College (http://catalog.montana.edu/undergraduate/gallatin-college/)
- Associate of Applied Science in Aviation (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/aviation/)
- Associate of Applied Science in Aviation Electronics Technology (http://catalog.montana.edu/aviation-electronics-technology/)
- Associate of Applied Science in Culinary Arts (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/culinaryarts/)
- Associate of Applied Science in Design Drafting Technology (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/design-drafting/)
- Associate of Applied Science in Heating, Ventilation, Air Conditioning, and Refrigeration (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/hvac-associate-applied-science-degree/)
- Associate of Applied Science in Information Technology Cybersecurity (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/information-technology-cybersecurity/)
• Associate of Applied Science in Interior Design ([http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/interior-design/](http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/interior-design/))
• Associate of Applied Science in Photonics and Laser Technology ([http://catalog.montana.edu/undergraduate/gallatin-college/photonics-laser-technology/](http://catalog.montana.edu/undergraduate/gallatin-college/photonics-laser-technology/))
• Associate of Arts ([http://catalog.montana.edu/undergraduate/gallatin-college/general-education/associate-arts-degree/](http://catalog.montana.edu/undergraduate/gallatin-college/general-education/associate-arts-degree/))
• Associate of Science ([http://catalog.montana.edu/undergraduate/gallatin-college/general-education/associate-science-degree/](http://catalog.montana.edu/undergraduate/gallatin-college/general-education/associate-science-degree/))
• Certificate of Applied Science in Bookkeeping ([http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/bookkeeping-certificate-applied-science-degree/](http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/bookkeeping-certificate-applied-science-degree/))
• Certificate of Applied Science in Carpentry ([http://catalog.montana.edu/carpentry/](http://catalog.montana.edu/carpentry/))
• Certificate of Technical Skills in Phlebotomy ([http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/phlebotomy/](http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/phlebotomy/))

**University Programs (http://catalog.montana.edu/undergraduate/university-college/)**

- University Programs offers several important academic programs to students including the Undergraduate Scholars Program and Leadership Fellows. University Programs also includes the MSU Advising Center and the National Student Exchange.

**Undergraduate Minors**

**Teaching Minors (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/)**

A number of teaching minors are available for students majoring in Secondary Education or Elementary Education.

- Art Education (K-12) ([http://catalog.montana.edu/undergraduate/artsarchitecture/art/art-education-k12-minor/](http://catalog.montana.edu/undergraduate/artsarchitecture/art/art-education-k12-minor/))
- Computer Science ([http://catalog.montana.edu/undergraduate/engineering/computer-science/computer-science-minor-teaching/](http://catalog.montana.edu/undergraduate/engineering/computer-science/computer-science-minor-teaching/)) (5-12)
- French (K-12) ([http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/french-k12-minor/](http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/french-k12-minor/))
- German (K-12) ([http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/german-k12-minor/](http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/german-k12-minor/))

**Honors College (http://catalog.montana.edu/undergraduate/honors-college/)**

- Honors College provides academically motivated students with unique opportunities to undertake interdisciplinary coursework and undergraduate research leading to an Honors baccalaureate degree.
- Directed Interdisciplinary Studies ([http://catalog.montana.edu/undergraduate/honors-college/dis/](http://catalog.montana.edu/undergraduate/honors-college/dis/))
Some students use minors to expand their career opportunities, while others in addition to a major field of study, many students are now declaring a Non-teaching Minors

In addition to a major field of study, many students are now declaring a Non-teaching Minor. This is a secondary area of academic specialization. Some students use minors to expand their career opportunities, while others pursue minors in education. Students must submit an Application for a Minor to the Registrar’s Office two semesters prior to graduation. Below is a list of non-teaching minors currently available.

- Accounting (http://catalog.montana.edu/undergraduate/business/business-minors/accounting-minor/)
- Aerospace (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/aerospace-minor/)
- Agricultural Business (http://catalog.montana.edu/undergraduate/agriculture/agricultural-business/minor-agricultural-business-nonteaching/)
- Animal Science (http://catalog.montana.edu/undergraduate/agriculture/animal-science/animal-science-minor-nonteaching/)
- Anthropology (http://catalog.montana.edu/undergraduate/letters-science/anthropology/anthropology-minor-nonteaching/)
- Art History (http://catalog.montana.edu/undergraduate/artsarchitecture/art/history-minor-nonteaching/)
- Asian Studies (http://catalog.montana.edu/undergraduate/letters-science/asian-studies-minor/)
- Astrobiology (http://catalog.montana.edu/undergraduate/agriculture/microbiology/microbiology-minor-astrobiology/)
- Biochemistry (http://catalog.montana.edu/undergraduate/letters-science/chemistry-biochemistry/biochemistry-minor-nonteaching/)
- Biomedical Engineering Minor (http://catalog.montana.edu/undergraduate/engineering/chemical-biological-engineering/biomedical-engineering-minor/)
- Building Energy Systems (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/building-energy-systems-minor/)
- Business Administration (http://catalog.montana.edu/undergraduate/business/business-minors/business-administration-minor/)
- China Studies (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/china-studies-minor-nonteaching/)
- Chemistry (http://catalog.montana.edu/undergraduate/letters-science/chemistry-biochemistry/chemistry-minor-non-teaching/)
- Coaching (http://catalog.montana.edu/undergraduate/education-health-human-development/education-health-human-development/coaching-minor/)
- Computer Engineering (http://catalog.montana.edu/undergraduate/engineering/electrical-computer-engineering/computer-engineering-nonteaching-minor/)
- Computer Science (http://catalog.montana.edu/undergraduate/engineering/computer-science/computer-science-minor-nonteaching/)
- Data Science (http://catalog.montana.edu/undergraduate/engineering/computer-science/data-science/minor-nonteaching/)
- Economics (http://catalog.montana.edu/undergraduate/letters-science/economics/economics-minor-nonteaching/)
- Electrical Engineering (http://catalog.montana.edu/undergraduate/engineering/electrical-computer-engineering/electrical-engineering/electrical-engineering-nonteaching-minor/)
- English Literature (http://catalog.montana.edu/undergraduate/letters-science/english/english-minor-literature-nonteaching/)
- English Writing (http://catalog.montana.edu/undergraduate/letters-science/english/english-minor-writing-nonteaching/)
- Engineering Management (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/eims-minor/)
- Entomology (http://catalog.montana.edu/undergraduate/agriculture/entomology-minor/)
- Environmental Horticulture (http://catalog.montana.edu/undergraduate/agriculture/environmental-horticulture/environmental-horticulture-minor-nonteaching/)
- Finance (http://catalog.montana.edu/undergraduate/business/business-minors/finance-minor/)
- Financial Engineering (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/financial-engineering-minor/)
- French (http://catalog.montana.edu/undergraduate/letters-science/foreign-languages-literatures/french-minor-nonteaching/)
- Genetics (http://catalog.montana.edu/undergraduate/agriculture/genetics-minor/)
- Geographic Information Science (GIS) (http://catalog.montana.edu/undergraduate/letters-science/gis/undergraduate/letters-science/earth-sciences/geographic-information-science-gis-minor-nonteaching/)
- German (http://catalog.montana.edu/undergraduate/letters-science/foreign-languages-literatures/german-minor-nonteaching/)
- Global Studies (http://catalog.montana.edu/undergraduate/letters-science/liberal-studies/global-minor/)
- Global Health (http://catalog.montana.edu/undergraduate/letters-science/liberal-studies/global-health/)
- Hispanic Studies (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/hispanic-studies-minor-nonteaching/)
- History (http://catalog.montana.edu/undergraduate/letters-science/history/history-minor-nonteaching/)
- Human Development (http://catalog.montana.edu/undergraduate/education-health-human-development/human-development-minor/)
- International Business (http://catalog.montana.edu/undergraduate/business/business-minors/international-business-minor/)
- Japan Studies (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/japan-studies-minor-nonteaching/)
- Land Surveying (http://catalog.montana.edu/undergraduate/engineering/civil-engineering/land-surveying-minor/)
- Latin American and Latino Studies (http://catalog.montana.edu/undergraduate/letters-science/foreign-languages-literatures/latin-american-latino-studies-minor-nonteaching/)
- Materials (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/materials-minor/)
- Mathematics (http://catalog.montana.edu/undergraduate/letters-science/mathematical-sciences/mathematics-minor-nonteaching/)
MSU-Bozeman reserves the right to add or withdraw programs at any time subject to the concurrence of the Board of Regents of Higher Education.

**College of Agriculture**
- Pre-Veterinary Certificate

**Jake Jabs College of Business & Entrepreneurship**
- Business Certificate
- Entrepreneurship Certificate

**College of Education, Health and Human Development**
- Certificate of Gerontology

**College of Letters and Science**
- Certificate of Arabic

**Gallatin College**
- Certificate of Applied Science in Bookkeeping
- Certificate of Applied Science in CNC Machine Technology
- Certificate of Applied Science in Health Information Coding
- Certificate of Applied Science in Medical Assistant
- Certificate of Applied Science in Network Technology
- Certificate of Applied Science in Welding Technology
- Professional Certificate in Business Management