Undergraduate Programs

- College of Agriculture
- College of Arts and Architecture
- Jake Jabs College of Business & Entrepreneurship
- College of Education, Health and Human Development
- College of Engineering
- College of Letters and Science
- College of Nursing
- Gallatin College
- Honors College
- University Programs

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.

### College of Agriculture (http://catalog.montana.edu/undergraduate/agriculture)
- Bachelor of Science in Agricultural Business
  - Agribusiness Management Concentration
  - Farm and Ranch Management Concentration
- Bachelor of Science in Agricultural Education
  - Agricultural Education Broadfield Teaching Option
  - Agricultural Communication, Leadership, and Extension Option
- Bachelor of Science in Animal Science
  - Equine Science Option
  - Livestock Management and Industry Option
  - Science Option
- Bachelor of Science in Environmental Horticulture
  - Environmental Horticulture Science Option
  - Landscape Design Option
- Bachelor of Science in 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
- Bachelor of Science in Microbiology
  - Microbiology Pre-Veterinary Track

### College of Arts and Architecture (http://catalog.montana.edu/undergraduate/artsarchitecture)
- Bachelor of Arts in Art
  - Art Education K-12 Broadfield Option
  - Art History Option
  - Liberal Arts Studio Option
- Bachelor of Fine Arts in Art
- Bachelor of Music Education
- Bachelor of Science in Art
  - Film Option
  - Photography Option
- Bachelor of Science in Art
  - Graphic Design Option
  - Studio Arts Option
- Bachelor of Science in 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 and Child Services (http://catalog.montana.edu/undergraduate/education-health-human-development/early-childhood-education-child-services-major)
  - Child Development Option
  - Preschool-Age Three (P-3) Option
- 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 Food and Nutrition (http://catalog.montana.edu/undergraduate/education-health-human-development/food-nutrition-major)
- Bachelor of Science in Health Enhancement K-12 (http://catalog.montana.edu/undergraduate/education-health-human-development/health-enhancement-k12-broadfield-major)
- Bachelor of Science in Health and Human Performance (http://catalog.montana.edu/undergraduate/education-health-human-development/health-human-performance-major)
  - Exercise Science Option
  - Kinesiology Option
- Bachelor of Science in Hospitality Mangement (http://catalog.montana.edu/undergraduate/education-health-human-development/hospitality-management)
  - Food Enterprise
  - Lodging and Facilities
  - Restaurnt Mangement: Farm to Table
- Bachelor of Science in Human Development and Family Science (http://catalog.montana.edu/undergraduate/education-health-human-development/family-science-major)
  - Family and Consumer Sciences Education Option
  - Human Development and Family Science 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

College of Engineering (http://catalog.montana.edu/undergraduate/engineering)

- Bachelor of Science in Biological Engineering (http://catalog.montana.edu/undergraduate/engineering/chemical-biological-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/electrical-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
  - Seamless BS/MS in Computer Science
- Bachelor of Science in Construction Engineering Technology (http://catalog.montana.edu/undergraduate/engineering/construction-engineering-technology)
- Bachelor of Science in Electrical Engineering (http://catalog.montana.edu/undergraduate/engineering/electrical-computer-engineering)
- Bachelor of Science in 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 Aerospace 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/americans-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)(Department of Ecology)
  - Biology Teaching Option
  - Conservation Biology and Ecology Option
  - Fish and Wildlife Ecology and Management Option
  - Organismal Biology Option
- Bachelor of Science in Cell Biology and Neuroscience (http://catalog.montana.edu/undergraduate/letters-science/cell-biology-neuroscience)
  - Biomedical Sciences Option (includes Pre-medicine, Pre-dentistry, Pre-optometry)
  - Neuroscience
- 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 Science in Microbiology (http://catalog.montana.edu/undergraduate/letters-science/microbiology)
  - Microbiology Option: Microbiology Track
  - Microbiology Option: Pre-Medical Track
  - Microbiology Option: Pre-Veterinary Track
  - Microbiology Option: Environmental Microbiology Track
  - Microbiology Option: Environmental Health Option
  - Medical Laboratory Science 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)
  - 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)
  - Applied Psychology Option
  - Psychological Science Option
- 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 Culinary Arts (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/culinaryarts)
• Associate of Applied Science in Cyber Security & Information Assurance (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/cybersecurity)
• Associate of Applied Science in Design Drafting Technology (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/design-drafting)
• Associate of Applied Science in 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/photronics-laser-technology)
• Associate of Arts (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)
• Certificate of Applied Science in Bookkeeping (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/bookkeeping-certificate-applied-science-degree)
• Certificate of Applied Science in CNC Machine Technology (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/CNC-machine-technology)
• Certificate of Applied Science in Health Information Coding (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/health-information-coding)
• Certificate of Applied Science in Medical Assistant (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/medical-assistant-certif-applied-science-degree-cas)
• Certificate of Applied Science in Network Technology (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/computer-network-technology)
• Certificate of Applied Science in Welding Technology (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/welding-technology)
• Professional Certificate in Business Management (http://catalog.montana.edu/undergraduate/gallatin-college/workforce-programs/business-management)

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)

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

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

• Art (K-12) (http://catalog.montana.edu/undergraduate/artsarchitecture/art-education-k12-minor)
• Biology (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/biology-minor)
• Chemistry (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/chemistry-minor)
• Earth Science (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/earth-science-minor)
• Economics (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/economics-minor)
• Family and Consumer Sciences (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/family-consumer-sciences-minor)
• French (K-12) (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)
• Government (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/government-minor)
• History (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/history-minor)
• Mathematics (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/mathematics-minor)
• Physics (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/physics-minor)
• Reading (K-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/reading-k12-minor)
• Spanish (K-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/spanish-k12-minor)
• Technology Education (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/technology-education-minor)

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.
• Personal and Consumer Finance [link]
• Philosophy [link]
• Photography [link]
• Physics [link]
• Political Science [link]
• Psychology [link]
• Sociology [link]
• Soil Science [link]
• Hispanic Studies [link]
• Spatial Analysis/GIS [link]
• Statistics [link]
• Water Resources [link]
• Women’s, Gender and Sexuality Studies [link]

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** [link]

- Preveterinary Certificate [link]

**College of Education, Health and Human Development** [link]

- Certificate of Gerontology [link]

**Gallatin College** [link]

- Certificate of Applied Science in Bookkeeping [link]
- Certificate of Applied Science in CNC Machine Technology [link]
- Certificate of Applied Science in Health Information Coding [link]
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.