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.

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 Education (http://catalog.montana.edu/undergraduate/agriculture/agricultural-education)
  - Agricultural Education Broadfield Teaching Option
  - Agricultural Communication, Leadership, and Extension Option
- 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/letters-science/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
  - Wildlife Habitat Ecology and Management Option
- Bachelor of Science in Plant Science (http://catalog.montana.edu/undergraduate/agriculture/plant-science)
  - Crop Science Option
  - Plant Biology Option
- 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
- Non-degree program
  - Pre-veterinary Medicine Program (http://catalog.montana.edu/undergraduate/agriculture/pre-veterinary-program)

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 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
Undergraduate Programs

• 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 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 (http://catalog.montana.edu/undergraduate/education-health-human-development/health-enhancement-health-physical-education-teaching-k12-broadfield-major) (Health and Physical Education)
• 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 Management (http://catalog.montana.edu/undergraduate/education-health-human-development/hospitalitymanagement)
  • 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)
  • 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
• Bachelor of Science in Technology Education (http://catalog.montana.edu/undergraduate/education-health-human-development/technology-education)
  • Industrial Technology Option
  • Technology Education Broadfield Teaching Option
• Certificate of Gerontology (http://catalog.montana.edu/undergraduate/education-health-human-development/gerontology)

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)
  • Bio-Resources Option
• Bachelor of Science in Computer Engineering (http://catalog.montana.edu/undergraduate/engineering/computer-science)
• Bachelor of Science in Computer Science (http://catalog.montana.edu/undergraduate/engineering/computer-science)
  • Interdisciplinary Option
  • Professional Option
  • Bachelor of Arts 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 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 Industrial 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/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) (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
  • Palaeontology 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
• 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)
Undergraduate 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/education-health-human-development/department-education/teaching-minors/art-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)

Teaching Minors

- Spanish (K-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/spanish-k12-minor)
- Chemistry (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/chemistry-minor)
- Physics (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/physics-minor)
- Math (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/math-minor)
- Biology (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/biology-minor)
- Economics (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/economics-minor)
- English (5-12) (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/english-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)
- 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/math-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)
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/art-history-minor-nonteaching)
- Asian Studies (http://catalog.montana.edu/undergraduate/letters-science/asian-studies-minor)
- Astrobiology (http://catalog.montana.edu/undergraduate/letters-science/ecology/astrobiology-minor)
- Biochemistry (http://catalog.montana.edu/undergraduate/letters-science/chemistry-biochemistry/biochemistry-minor-nonteaching)
- 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/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)
- 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-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)
- 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/modern-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/earth-sciences/geographic-information-science-gis-minor-nonteaching)
- German (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/german-minor-nonteaching)
- Global Studies (http://catalog.montana.edu/undergraduate/letters-science/liberal-studies/global-minor)
- Global Studies 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)
- Industrial and Management Systems Engineering (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/eims-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/modern-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)
- Mechatronics (http://catalog.montana.edu/undergraduate/engineering/mechanical-industrial-engineering/mechatronics-minor)
- Microbiology (http://catalog.montana.edu/undergraduate/letters-science/microbiology/microbiology-minor-nonteaching)
- Military Studies (http://catalog.montana.edu/undergraduate/engineering/military-science-army-rotc)
- Museum Studies (http://catalog.montana.edu/undergraduate/letters-science/history/museum-studies-minor-nonteaching)
- Music (http://catalog.montana.edu/undergraduate/artsarchitecture/music/music-minor-nonteaching)
• Native American Studies (http://catalog.montana.edu/undergraduate/letters-science/native-american-studies/native-american-studies-minor-nonteaching)
• Natural Resources and Rangeland Ecology (http://catalog.montana.edu/undergraduate/agriculture/natural-resources-rangeland-ecology/natural-resources-rangeland-ecology-minor-nonteaching)
• Optics and Photonics (http://catalog.montana.edu/undergraduate/engineering/electrical-computer-engineering/electrical-engineering/optics-minor-nonteaching)
• Personal and Consumer Finance (http://catalog.montana.edu/undergraduate/education-health-human-development/personal-finance)
• Philosophy (http://catalog.montana.edu/undergraduate/letters-science/philosophy/philosophy-minor-nonteaching)
• Photography (http://catalog.montana.edu/undergraduate/artsarchitecture/film-photography/photography-minor-nonteaching)
• Physics (http://catalog.montana.edu/undergraduate/letters-science/physics/physics-minor-nonteaching)
• Political Science (http://catalog.montana.edu/undergraduate/letters-science/political-science)
• Psychology (http://catalog.montana.edu/undergraduate/letters-science/psychology/psychology-minor-nonteaching)
• Sociology (http://catalog.montana.edu/undergraduate/letters-science/sociology/sociology-minor-nonteaching)
• Soil Science (http://catalog.montana.edu/undergraduate/agriculture/environmental-sciences/soil-science-minor-nonteaching)
• Hispanic Studies (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/hispanic-studies-minor-nonteaching)
• Spatial Analysis/GIS (http://catalog.montana.edu/undergraduate/letters-science/earth-sciences/geographic-information-science-gis-minor-nonteaching)
• Statistics (http://catalog.montana.edu/undergraduate/letters-science/mathematical-sciences/statistics-minor-nonteaching)
• Water Resources (http://catalog.montana.edu/undergraduate/letters-science/earth-sciences/water-resources-minor-nonteaching)
• Women’s, Gender and Sexuality Studies (http://catalog.montana.edu/undergraduate/letters-science/womens-gender-studies)

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.