Montana State University

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 Relations 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 Biotechnology (http://catalog.montana.edu/undergraduate/agriculture/biotechnology)
  - Animal Systems Option
  - Plant Systems Option
  - Microbial Systems 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
  - 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 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
  - 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)
- Bachelor of Science in Early Childhood Education and Child Services (http://catalog.montana.edu/undergraduate/education-health-human-development)
- Bachelor of Science in Elementary Education K-8 (http://catalog.montana.edu/undergraduate/education-health-human-development)
  - Early Childhood Education Option
  - Mathematics Option
  - Science Education Option
  - Special Education Option
- Bachelor of Science in Family and Consumer Sciences (http://catalog.montana.edu/undergraduate/education-health-human-development)
  - Non-teaching Option
  - Teaching Option
- Bachelor of Science in Food and Nutrition (http://catalog.montana.edu/undergraduate/education-health-human-development)
  - Dietetics Option
  - Nutrition Science Option
- Bachelor of Science in Secondary Education (http://catalog.montana.edu/undergraduate/education-health-human-development)
  - 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 and Physical Education)
- Bachelor of Science in Health and Human Performance (http://catalog.montana.edu/undergraduate/education-health-human-development)
  - Exercise Science Option
  - Kinesiology Option
- Bachelor of Science in Sustainable Food & Bioenergy Systems (http://catalog.montana.edu/undergraduate/education-health-human-development)
  - Sustainable Food Systems Option
- Bachelor of Science in Technology Education (http://catalog.montana.edu/undergraduate/education-health-human-development)
  - Industrial Technology Option
  - Technology Education Broadfield Teaching Option

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

- Bachelor of Science in Bioengineering (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/electrical-computer-engineering)
- Bachelor of Science in Computer Science (http://catalog.montana.edu/undergraduate/engineering/computer-science)
  - Interdisciplinary Option
  - Professional Option
- 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 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/american-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/ecology) (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)
• Bachelor of Science in Chemistry and Biochemistry (http://catalog.montana.edu/undergraduate/letters-science/chemistry-biochemistry)
  • Biochemistry Option
  • Chemistry Option
  • Chemistry 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
  • Japan Studies 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
  • Quaternity Option
• 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)
  • Environmental Health Option
  • Medical Laboratory Science Option
  • Microbiology Option
  • Environmental Microbiology Track
  • Microbiology Track
  • Pre-Medical Track
• Bachelor of Arts in Modern Languages and Literatures (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures)
  • French Teaching K-12 Option
  • French and Francophone Studies Option
  • German Teaching K-12 Option
• German Studies Option
• Hispanic Studies Option
• Latin American and Latino/Latina Studies
• Spanish Teaching K-12 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)
  • International Relations Option
  • Analysis and Policy Option
  • Political Institutions Option
  • Political Theory Option
• Bachelor of Science in Psychology (http://catalog.montana.edu/undergraduate/letters-science/psychology)
  • Applied Psychology Option
  • Psychological Science Option
• Bachelor of Arts in Religious Studies (http://catalog.montana.edu/undergraduate/letters-science/religious-studies)
• 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 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 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)
Secondary Education or Elementary Education.

A number of teaching minors are available for students majoring in

Teaching Minors

- Art K-12 (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/art-k12-minor)
- Biology (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/biology-minor)
- Chemistry (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/chemistry-minor)
- Economics (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/economics-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 (http://catalog.montana.edu/undergraduate/education-health-human-development/department-education/teaching-minors/history-minor)
- Physics (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)

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/minor-animal-science-nonteaching)
- Anthropology (http://catalog.montana.edu/undergraduate/letters-science/anthropology/minor-antropology-nonteaching)
- Art History (http://catalog.montana.edu/undergraduate/arts-architectural/art-minor-art-history-nonteaching)
- Astrobiology (http://catalog.montana.edu/undergraduate/letters-science/astrobiology/astrobiology-minor)
- Biochemistry (http://catalog.montana.edu/undergraduate/letters-science/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-nonteaching)
- Coaching (http://catalog.montana.edu/undergraduate/education-health-human-development/health-human-development/coaching-minor)

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.
• Computer Engineering (http://catalog.montana.edu/undergraduate/engineering/electrical-computer-engineering/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/electrical-engineering-nonteaching-minor)
• English Literature (http://catalog.montana.edu/undergraduate/letters-science/english/english-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/special-academic-opportunities/#learningtext)
• 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/health-human-development/human_development_minor)
• 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)
• 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)
• Religious Studies (http://catalog.montana.edu/undergraduate/letters-science/religious-studies/religious-studies-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)
• Spanish (http://catalog.montana.edu/undergraduate/letters-science/modern-languages-literatures/spanish-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.