The department offers graduate study leading to Master of Science degrees in Civil Engineering, Environmental Engineering, and an interdisciplinary Master of Science degree in Land Rehabilitation. The department also participates in the Doctor of Philosophy in Engineering degree program through the College of Engineering, specifically in the Civil Engineering, Applied Mechanics and Environmental Engineering options.

The M.S. program is also available following a concurrent schedule of undergraduate and graduate classes starting the senior year, allowing a Bachelor of Science degree and a Master of Science degree to be obtained in a total of ten semesters of study. This program is intended for qualified students interested in an advanced degree for practitioners, for which the civil engineering work place is currently seeing an increased demand. Contact the department for further information on this program.

In addition, a Professional Master of Science and Engineering Management (http://catalog.montana.edu/graduate/interdisciplinary-other-programs/prof-ms-engineering-mgmt-pmsem) (PMSEM) degree is available online. This 30-credit interdisciplinary graduate program is designed to help working professionals bridge the gap between science, engineering and business management in the work place.

For the M.S. and Ph.D. degrees, major study is offered in various combinations of the subject areas of transportation engineering, geotechnical engineering, fluid mechanics, hydraulic and hydrologic engineering, structural engineering, engineering mechanics, and environmental engineering.

Admission
A bachelor’s degree in a similar engineering field is normally required for admission to the graduate programs in the department, although graduates in the physical and life sciences may be accepted. In certain cases, students may be required to make up subject area deficiencies before being admitted to the graduate program.

For more detailed information, interested students are referred to the Admission Policies and Application Requirements sections of the departmental website. Successful applicants are accepted into both the department and The Graduate School.

Interdisciplinary M.S. Degree in Land Rehabilitation
The Department of Civil Engineering participates in the interdisciplinary M.S. degree in Land Rehabilitation. This program offers advanced study in disturbed land rehabilitation, site revegetation, soil remediation, riparian zone restoration, stream channel restoration, investigation of impacted geologic resources, and remediation of contaminated sites. Students wishing to obtain an M.S. in Land Rehabilitation through the Department of Civil Engineering are referred to the Interdisciplinary M.S. Degree in Land Rehabilitation description in the College of Agriculture section.

Research Facilities
The research facilities of the department include well-equipped laboratories for bituminous materials, concrete, hydraulics and irrigation, fluid mechanics, structures, stress analysis, computer analysis, photogrammetry, geotechnical engineering, and environmental engineering. Civil Engineering students also frequently utilize the research facilities of the Center for Biofilm Engineering (CBE), the Western Transportation Institute (WTI) and the Subzero Science and Engineering Laboratory (SSEL).

Financial Assistance
Teaching and research assistantships are available in the department. Teaching assistantships involve assisting professors with the conduct of classes including preparation and grading. Research assistantships provide the opportunity for work on a research project under the direction of a faculty member. Results of the research done on an assistantship may form the basis for the graduate student’s professional paper, thesis or dissertation. For more information on appointment criteria for assistantships, see the Graduate Assistantships sections of the departmental website.

Graduate Programs
- M.S. in Civil Engineering (http://catalog.montana.edu/graduate/engineering/civil-engineering/ms-civil-engineering)
- M.S. in Environmental Engineering (http://catalog.montana.edu/graduate/engineering/environmental-engineering)
- M.S. in Land Rehabilitation (http://catalog.montana.edu/graduate/agriculture/land-resources-environmental-sciences/ms-land-rehabilitation)
- Professional Master of Science and Engineering Management (http://catalog.montana.edu/graduate/interdisciplinary-other-programs/prof-ms-engineering-mgmt-pmsem) (PMSEM)
- Ph.D. in Engineering (http://catalog.montana.edu/graduate/engineering/engineering-phd) (Options: Applied Mechanics, Environmental Engineering, Civil Engineering)