

MONTANA BOARD OF PROFESSIONAL ENGINEERS & PROFESSIONAL LAND SURVEYORS
Land Surveying Curriculum approved by the Full Board on February 1, 2012

Basic Courses: Minimum 33 semester credits

English: 6 credits
English composition
English writing
Public speaking

Math: 7 credits
Algebra
Trigonometry

Drafting: 6 credits
A minimum of 3 credits must be in survey drafting

Basic Science: 9 credits
Computer hardware
Computer software
Introduction to GPS
Introduction to GIS
Physical science

Humanities, Social Science or approved AAS benchmarks: 5 credits

Surveying Techniques courses: Minimum 11 semester credits

1. Basic field survey techniques (traversing, leveling, GPS, notekeeping and records, etc.)
2. Basic survey calculations (field data reduction, traverse entry, etc)
3. Creating topographic maps by field measurements
4. Construction surveying
5. Route surveying
6. Creating or analyzing maps and images with photogrammetric or remote sensing methods

Principles and Practice of Land Surveying courses: Minimum 16 semester credits

1. In depth study of the Public Land Survey System (PLSS)
2. Surveying calculations for boundary analysis and aliquot part subdivision of sections
3. Legal principles of property boundaries
4. Writing and interpreting legal descriptions
5. Land development design and local/state regulations
6. Montana laws concerning surveying (statutes, administrative rules, case law)
7. Public records research
8. Advanced survey-grade GPS control and analysis

The Board of Professional Engineers and Professional Land Surveyors has approved the following college's and university's land surveying curricula:

- **Flathead Valley Community College - Associates in Applied Science in Surveying**
- **Montana State University–Bozeman – Minor in Land Surveying and/or Land Surveying Certificate**

Other curricula will be considered by the board on a case-by-case basis. To be considered for board approval, the land surveying courses must be taught by a licensed professional land surveyor or under the supervision of a licensed professional land surveyor licensed in his or her respective state.