

Idaho State University - Academic Certificate in Land Surveying

For individuals who have a bachelor's degree in a field related to surveying, and are seeking to obtain college credit hours in surveying science to meet state licensing education requirements.

Available online courses are from the ABET ETAC accredited *Surveying and Geomatics Engineering Technology* and *Civil Engineering Technology* programs.

1. Flexibility to meet individual needs for earning credit:
2. The certificate must consist of 30 credits.
3. A minimum of 50% or 15 credits must be resident credits (i.e. credits taken at ISU)
4. Transfer course substitutions may be applied to the 30 credits if reasonable and/or appropriate related course content can be determined. (case by case review of transcripts)
5. Passing a course *Challenge Exam*.
6. *Prior Learning Assessment* (PLA) in the form of a portfolio documenting work experience equivalent to course subject matter.

CORE COURSES - Required		21 CREDITS
CET 0112	Beginning Surveying	3 Pre-req or Co-req: ALG, TRIG
CET 0122	Intermediate Surveying and Spatial Analysis	3 Pre-req: CET 0112
CET 0216	Route Survey and GPS Fundamentals	3 Pre-req: ALG, TRIG CET 0122, <i>Note 1</i>
GEMT 3310	Boundary Surveying Law	3 Pre-req: ALG, TRIG
GEMT 3312	Public Land Surveys	3 Pre-req: ALG, TRIG, Co-req CET 0122
GEMT 4430	GPS Principles and Application	3 Pre-req: ALG, TRIG, CET 0122
GEMT 4411	Geodesy	3 Pre-req: ALG, TRIG, CET 0122
CHOOSE ELECTIVES		9 CREDITS
GEMT 3311	Advanced Surveying	3 Pre-req: ALG, TRIG, CET 0122
GEMT 3314	Research and Evidence in Surveying	3 Pre-req: ALG, TRIG, Co-req CET 0122
GEMT 3315	Surveying Adjustments	3 Pre-req: Calculus I, CET 0122
GEMT 3317	Subdivision Planning and Platting	2 Pre-req: ALG, TRIG, CET 0122
GEMT 3319	Writing Legal Descriptions	1 Pre-req: ALG, TRIG, CET 0122
GEMT 4425	Principles of Cartography	3 Pre-req: ALG, TRIG, CET 0122, <i>Note 2</i>
GEMT 4432	Principles of Photogrammetry	3 Pre-req: ALG, TRIG, CET 0122
TOTAL CREDITS		30 CREDITS

Note 1: Civil drafting software experience/coursework recommended.

Note 2: CET 0228 Principles of GIS or equivalent to ArcGIS Pro

Elective Criteria

1. Elective courses must be in a related subject matter to the surveying profession.
2. Courses focused on learning basic software (e.g. CAD, etc.) are not considered appropriate related electives.
3. Advanced subject matter courses other than those listed may be considered on a case by case basis.

NOTE: Refer to individual state surveying licensing education requirements to ensure that all needed courses are taken. State Licensing Board determines "Related Degree" and any additional math/science courses. Click the following link to verify individual *State Licensing Boards for Rules and Regulations* required for licensure. <https://ncees.org/state-links/>