

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 the *Civil Engineering Technology* programs.

Flexibility to meet individual needs for earning credit:

1. The certificate must consist of 30 credits.
2. A minimum of 50% or 15 credits must be resident credits (i.e. credits taken at ISU)
3. 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)
4. Passing a course *Challenge Exam*.
5. *Prior Learning Assessment* (PLA) in the form of a portfolio documenting work experience equivalent to course subject matter.

| CORE COURSES - Recommended | | 18 CREDITS |
|-----------------------------------|-----------------------------------|-------------------|
| CET 0112 | Beginning Surveying | 3 |
| CET 0216 | Route Survey and GPS Fundamentals | 3 |
| GEMT 3310 | Boundary Surveying Law | 3 |
| GEMT 3312 | Public Land Surveys | 3 |
| GEMT 4430 | GPS Principles and Application | 3 |
| GEMT 4411 | Geodesy | 3 |

| CHOOSE ELECTIVES | | 12 CREDITS | |
|-------------------------|---|-------------------|------------------|
| CET 0122 | Intermediate Surveying and Spatial Analysis | 3 | PREREQ: CET 0112 |
| GEMT 3311 | Advanced Surveying | 3 | |
| GEMT 3314 | Research and Evidence in Surveying | 3 | |
| GEMT 3315 | Surveying Adjustments | 3 | |
| GEMT 3317 | Subdivision Planning and Platting | 2 | |
| GEMT 3319 | Writing Legal Descriptions | 1 | |
| GEMT 4425 | Principles of Cartography | 3 | |
| GEMT 4432 | Principles of Photogrammetry | 3 | |

| TOTAL CREDITS | 30 CREDITS |
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NOTE: Refer to individual state surveying licensing education requirements to ensure that needed courses are taken. Click the following link to verify *State Licensing Boards for Rules and Regulations* required for licensure.

<https://ncees.org/state-links/>