

LAND 109C : Basic Site Grading and Surveying

Familiarizes students with surveying techniques and grading principles that are integral to interpreting topographical information and understanding natural and man-made features that influence grade changes in the landscape. Emphasis will be on practical and basic applications of survey equipment, note-keeping, plotting, and other measuring techniques that are useful to landscape contractors and designers. Practical exercises include incorporating designed features such as stairs, retaining walls, ramps, walkways, swales, etc., into the landscape. High school-level Algebra I and Algebra II, with grades of C or higher, are recommended.

Credits 3

Lab/Practicum/Clinical Hours 2

Lecture Hours 2

Learning Outcomes

- Understand slope and horizontal and vertical spatial concepts.
- Measure and record data in organized fashion.
- Prepare an accurate sketch which graphically communicates proposed improvements.
- Calculate areas and volumes.
- Estimate cost of time and materials.