



Cincinnati State Technical and Community College On-line Land Surveying Course Options

FALL COURSE OFFERINGS – These courses are offered every fall semester and can be taken in any order.

**CET 250 Route Location and Design
4 Credits.**

A course on highway design criteria and standards. Topics include: design and layout of horizontal curves, verticals, and spirals; superelevation use; typical sections; and boundary, area, and right-of-way determination.

**CET 251 Elements of Land Surveying 1*
4 Credits.**

A course on fundamental concepts and techniques of land boundary surveying. Topics include: records research, state minimum standards, monumentation of corners, and simple plats and legal descriptions.

*It is recommended that students take CET 251 prior to taking CET 252.

**CET 266 Surveying History in Ohio, Kentucky, and Indiana
4 Credits.**

A course on the history of surveying in Ohio, Indiana, and Kentucky, including the original surveys in these states.

**CET 277 Survey Calculations and Statistics
4 Credits.**

A course on survey calculations employing statistical concepts. Topics include: descriptive and inferential statistics, advanced coordinate geometry methods, least squares adjustment, and error theory.



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SPRING COURSE OFFERINGS – These courses are offered every spring semester and can be taken in any order.

CET 252 Elements of Land Surveying 2 4 Credits.

A continuation of CET 251 . Topics include: sequential and simultaneous boundaries, riparian and littoral boundaries, public land surveys, easements, and legal principles of property relating to surveyors.

*It is recommended that students take CET 251 prior to taking CET 252.

CET 260 Control Surveying * 4 Credits.

A course in concepts and techniques of control surveying. Topics include: basic geodesy, state plane coordinate concepts and calculations, establishing horizontal and vertical control, GPS positioning, and network adjustment. Students complete outdoor field exercises and computer lab exercises.

*This is a hybrid course. For students that cannot come to campus, off campus arrangements can be made to complete the course remotely.

CET 267 Surveying Laws and Ethics 4 Credits.

A course on surveying law and professional ethics in Ohio, Indiana, and Kentucky, including legislation and regulations affecting land surveyors in these states.

CET 287 Geospatial Surveying 4 Credits.

A course on surveying using geospatial methods. Topics include: satellite positioning, geographic information systems, remote sensing, and laser scanning.