

SUR

Courses

SUR 100 Introduction to Land Surveying

3 Credits. 2 Lecture Hours. 2 Lab Hours.

A course on foundational concepts in land surveying. Topics include: Land Surveying program expectations and curriculum, career preparation, licensing, ethics, diversity, and OSHA regulations. Students use Microsoft Word, Excel, and PowerPoint to complete assignments.

Prerequisites: None

SUR 120 Computer Aided Design, Civil 3D, and Surveying Software

4 Credits. 2 Lecture Hours. 4 Lab Hours.

A course on applying advanced concepts of computer aided design, using Civil 3D and other surveying software.

Prerequisites: CET 115

SUR 221 Dendrology 1

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A 7-week course on identification of commonly-encountered woody plants of southwestern Ohio, southeastern Indiana, and northern Kentucky, emphasizing use of botanical keys for identification during the summer season. Topics include: identifying markings and evidence of tree remnants to identify property corners and witness corners for land surveying.

Prerequisites: None

SUR 222 Dendrology 2

1 Credit. 0 Lecture Hour. 2 Lab Hours.

A 7-week course that is a continuation of SUR 221, emphasizing use of botanical keys for identification during the winter season while identifying commonly-encountered woody plants of southwestern Ohio, southeastern Indiana, and northern Kentucky.

Prerequisites: SUR 221

SUR 391 Part-Time Cooperative Education 1: Land Surveying

1 Credit. 1 Lecture Hour. 20 Lab Hours.

Students seeking a bachelor's degree participate in their first full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

SUR 420 Photogrammetry and Remote Sensing

3 Credits. 2 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for photogrammetry and remote sensing. Topics include: laser scanning, data storage and usage, data sharing, unmanned aerial vehicles, and other current advanced surveying technologies.

Prerequisites: CET 277 and CET 287

SUR 465 Subdivision Design and Drainage Control

4 Credits. 3 Lecture Hours. 3 Lab Hours.

A course on concepts and techniques for subdivision design and drainage control, emphasizing large land developments and site design.

Prerequisites: SUR 120 and CET 250

SUR 490 Land Surveying Capstone

3 Credits. 1 Lecture Hour. 6 Lab Hours.

Students complete a field project that demonstrates integrated competencies in advanced surveying concepts and techniques, and review topics included in the National Council of Examiners for Engineering and Surveying (NCEES) Fundamentals of Surveying exam.

Prerequisites: CET 250 and CET 252 and CET 267

SUR 491 Full-Time Cooperative Education 3: Land Surveying

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking a bachelor's degree participate in their third full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None

SUR 492 Full-Time Cooperative Education 4: Land Surveying

2 Credits. 1 Lecture Hour. 40 Lab Hours.

Students seeking a bachelor's degree participate in their fourth full-time field learning experience related to their degree. Students must follow cooperative education policies and procedures to earn credit. Grades issued are Satisfactory or Unsatisfactory.

Prerequisites: None