

## CIVIL ENGINEERING/SURVEYING TECHNOLOGIES

### ASSOCIATE IN APPLIED SCIENCE (67 CREDIT HOURS)

Civil survey technicians are the backbone of their industry. They may work in construction or manufacturing or for a municipality or state government. Survey technicians operate, adjust, and calculate and record readings from the equipment they use at surveying job sites. Many industries depend on the surveying and mapping skills provided by surveying technicians.

The specific academic areas included in the AAS in Civil Engineering/Surveying Technologies include design/drafting, surveying, and civil engineering technology. Courses in these areas are taught by faculty with years of industry experience and solid academic credentials. Technicians are charged with implementing the design strategies of engineers and, therefore, must learn the application portion of the engineering discipline. OSUIT students learn to apply engineering technology in state-of-the-art laboratories using the latest equipment.

The surveying curriculum teaches students to utilize advanced problem-solving and technical skills in a constantly changing environment, ranging from indoor office work to outdoor fieldwork. Students use the latest surveying tool technologies, including the global positioning system (GPS), geographic information systems (GIS), and total stations. The program prepares students to utilize this technology in a variety of surveying tasks, including property line location, topographic surveys, and construction applications.

This program of study requires special program fees beyond OSUIT's current tuition and mandatory fees.

**Students must complete all technical courses with a grade of C or better and maintain a 2.50 overall (retention/graduation) GPA.**

**For more detailed information regarding OSUIT's Civil Engineering/Surveying Technologies program – including the required tool list – please contact a program advisor at 918-293-5150 or visit [osuit.edu/civil](https://osuit.edu/civil).**

### PROGRAM REQUIREMENTS: 48 CREDIT HOURS

#### TECHNICAL COURSE REQUIREMENTS (36 CREDIT HOURS)

CET	2123	Properties of Soils <sup>[P]</sup>
CET	2212	Transportation <sup>[P]</sup>
CET	2323	Statics <sup>[P]</sup>
CET	2806	Internship <sup>[P]</sup>
ETDG	1143	Introduction to Design/Drafting <sup>[C]</sup>
ETDG	1192	Applied AutoCAD <sup>[P]</sup>
ETDG	2663	Civil Technology Applications <sup>[P]</sup>
ETDG	2674	Civil Drafting <sup>[P]</sup>
SURV	1011	Introduction to Surveying
SURV	1223	Land Law I
SURV	2223	Land Law II <sup>[P]</sup>
SURV	2303	Surveying I <sup>[P]</sup>

#### APPROVED TECHNICAL ELECTIVES (12 CREDIT HOURS)

*Selected from technical courses not utilized to meet other program requirements, as approved by the program advisor.*

### GENERAL EDUCATION REQUIREMENTS: 18 CREDIT HOURS

#### AMERICAN HISTORY & GOVERNMENT (6 CREDIT HOURS)

HIST	1483	US History to 1865 <i>or</i>
HIST	1493	US History since 1865
POLS	1113	US Government

#### COMMUNICATIONS (6 CREDIT HOURS)

*Select from courses listed below or others as approved by program advisor.*

ENGL	1113	Freshman Composition I <i>or</i>
ENGL	1033	Technical Writing I
SPCH	1113	Introduction to Speech Communications <i>or</i>
SPCH	2313	Small Group Communications

#### MATHEMATICS (6 CREDIT HOURS)

MATH	1513	Pre-Calculus (A)
MATH	1613	Trigonometry <sup>[P]</sup> (A)

### INTERDEPARTMENTAL REQUIREMENTS: 1 CREDIT HOUR

#### ORIENTATION (1 CREDIT HOUR)

ORIE	1011	College Strategies
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