

Oklahoma State University Institute of Technology
Face-to-Face Common Syllabus
Fall 2017

SURV 1011 Introduction to Surveying

Each learner will demonstrate proper procedures of use, and capabilities of several different surveying instruments, including a transit, theodolite, total station, and a builder's level. Each learner will also perform mathematic computations to solve surveying related problems.

Course Purpose:

This course is an overview of the surveying profession and how it relates to civil engineering.

Type of Course: Theory/Lab

Credit Hours: 1; Total clock hours of theory per semester: 15;

Total clock hours of lab per semester: 7.5; Total clock hours of clinical per semester: none.

Class Length: Full Semester

Class Days and Times: 10:00 am – 11:55 am T

Prerequisites: Math 0163 Intermediate Algebra (if needed)

Instructor Name: Casey Campbell **Instructor Phone:** (918) 293-5263

Office: Hospitality Services (AKA Culinary Arts building on campus map), Rm. 14

Instructor Email: casey.campbell@okstate.edu

Contact: My preferred method of contact is email. Please allow 24-48 hours to return your correspondence during the normal work week.

Instructor's Office Hours: Posted on office door.

School Name: Engineering Technologies

School Main Phone: (918) 293-5151

REQUIRED TEXT, REFERENCES, AND MATERIALS

Texts: Surveying Principles and Applications, 9th Edition, Barry Kavanagh and Tom Mastin, Pearson ISBN-13: 978-0-13-700940-4

Cost: *Bookstore Price - \$190.70*

References: None

Materials: Scientific Calculator

HP 35s (Recommended) *Bookstore Price - \$60.00*

TI-30xa (Sufficient) *Bookstore Price - \$13.20*

External Data Storage Device *Bookstore Price - \$8.70*

Field Book *Bookstore Price - \$5.75*

Notebooks *Bookstore Price - \$3.05*

Engineers Scale *Bookstore Price - \$2.70*

Writing Utensils *Bookstore Price - \$0.95*

Uniform/Tools: None

Estimated Cost for Materials: \$ 81.15 (Recommended) / \$ 34.35 (Sufficient)

Estimated Cost for Uniform/Tools: \$ 0

Optional Resources: AutoCAD Civil 3D *Free Student Software Download*

Upon completion of the course, students should:

	Course Objectives	Assessment of Objectives	University Student / ABET Outcome Assessment
*	Utilize surveying methods appropriate for land measurement and/or construction layout;	Lab	University Outcome #14
**	Selects appropriate techniques and tools for a specific engineering technology task and/or compares results with results from alternative tools or techniques;	Lab	ABET Outcome a1
**	Chooses an equation of a system or process appropriate for required accuracy;	Homework	ABET Outcome b1

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (*) above indicates this assignment is used in the university assessment program. If applicable, a double asterisk (**) above indicates this assignment is used in the ABET assessment of student learning in the Civil Engineering Technology Program.

COURSE ACTIVITIES

In this course students will:

- *Participate in class discussions and activities.*
- *View videos that depict the various concepts.*
- *Contribute to a course Service Learning project.*
- *Participate in group and individual presentations.*
- *Compile a portfolio of work produced.*
- *Take examinations.*
- *Complete reading assignments.*
- *May be required to do quizzes.*

EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION OF THESE TASKS:

Syllabus Quiz	1%
Quizzes	20%
Assignments	19%
Labs	20%
Mid Term Exam	20%
<u>Final Exam</u>	<u>20%</u>
Total	100%

OSUIT Grading Scale
A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% & below

*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

RECOMMENDED STUDENT COMPETENCIES/SKILLS

AutoCAD Civil 3D, Microsoft Excel

AUTHORIZED TOOLS

All quizzes and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.

LATE WORK

All assignments and Tests will have specific due dates and are expected to be completed and turned in before class time on that date. Students will be given ample time to complete all tasks before they are due. No late assignments or test will be accepted, any work turned in after it's designated due date WILL NOT be graded and result in a zero. There will be NO MAKEUP WORK offered for this course.

TESTING

Students should report to class on time to allow the maximum time for taking the exam. You will not receive additional time due to tardiness. You are not allowed to have additional resources out during exams and cell phones must be off and put away.

OTHER LAB AND CLASSROOM POLICIES

Emails: All emails sent to the instructor will require the course name, prefix, number and section number in the subject line (*Example.* SURV 1011 – Introduction to Surveying 60348). Emails without the required information will be sent back.

Assignments: All assignments require name, date, and assignment number if expected to be graded.

SYLLABUS ATTACHMENT

View the Syllabus Attachment, which contains other important information, by visiting http://osuit.edu/center/student_syllabus_information

Course Schedule			
Course Outline Schedule	Topic	Assignment	Due Date
Week 1	Chapter 1 Basics of Surveying 1.1 – 1.7	Homework / Lab Work	Beginning Week 2
Week 2	Chapter 1 Basics of Surveying 1.8 – 1.14	Homework / Lab Work	Beginning Week 3
Week 3	Chapter 1 Basics of Surveying 1.15 – 1.21	Homework / Lab Work	Beginning Week 4
Week 4	Chapter 2 Leveling 2.1 – 2.8	Homework / Lab Work	Beginning Week 5
Week 5	Chapter 2 Leveling 2.9 – 2.17	Homework / Lab Work	Beginning Week 6
Week 6	Mid-Term	Homework / Lab Work	Beginning Week 7
Week 7	Leveling Lab	Mid-Term Exam	End Week 7
Week 8	Leveling Lab	Homework / Lab Work	Beginning Week 9
Week 9	Chapter 3 Distance Measurement 3.1 – 3.8	Homework / Lab Work	Beginning Week 10
Week 10	Chapter 3 Distance Measurement 3.9 – 3.16	Homework / Lab Work	Beginning Week 11
Week 11	Chapter 3 Distance Measurement 3.17 – 3.24	Homework / Lab Work	Beginning Week 12
Week 12	Total Station / GPS Lab	Homework / Lab Work	Beginning Week 13
Week 13	Total Station / GPS Lab	Homework / Lab Work	Beginning Week 14
Week 14	Review	Homework / Lab Work	Beginning Week 15
Week 15	Review	Final Exam	End Week 15

Schedule is subject to change at instructor discretion.