

Bossier Parish Community College
Master Syllabus

Course Prefix and Number: CONS 210

Credit Hours: 3-2-3

Course Title: Construction Surveying and Laboratory

Prerequisite: CONS 102 and CONS 160

Textbook(s): Charles Ghilani & Paul Wolf, Elementary Surveying: An Introduction to Geomatics. Prentice Hall, 2015. ISBN: 9780133758887

Course Description: This course includes accurate measuring of distance, theory and practice of leveling, angles and theodolites, basic operations of total stations, traverse surveys and computations, branches of geomatics, global positioning systems, and control surveys. Both horizontal and vertical construction elements are discussed.

Learning Outcomes:

At the end of this course, the student will:

- A. demonstrate proficiency in the fundamentals of plan surveying; and
- B. apply proficiencies to surveying practice.

To achieve the learning outcomes, the student will or will be able to:

(The letter designations at the end of each statement refer to the learning outcome(s).)

1. define and describe surveying fundamentals; (A)
2. describe and perform distance measurement; (A, B)
3. describe and perform leveling; (A, B)
4. define and calculate angles and theodolites; (A, B)
5. demonstrate proficiency in the use of total stations; (A, B)
6. understand geomatics; (A)
7. understand global positioning systems; (A) and
8. understand control surveys. (A)

Course Requirements: Textbook and Scientific Calculator

Course Grading Scale:

90% to 100%	=	A
80% to < 90%	=	B
70% to < 80%	=	C
60% to < 70%	=	D
< 60%	=	F

Attendance Policy: The college attendance policy is available at <http://www.bpcc.edu/catalog/current/academicpolicies.html>

Course Fees: This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, software licenses, certification exams, and/or clinical fees.

Nondiscrimination Statement: Bossier Parish Community College does not discriminate on the basis of race, color, national origin, gender, age, religion, qualified disability, marital status, veteran's status, or sexual orientation in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of its operations. Bossier Parish Community College does not discriminate in its hiring or employment practices.

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