Course Prefix and Number: CONS 210
Credit Hours: 3-2-3

Course Title: Construction Surveying and Laboratory

Prerequisite: CONS 102 and CONS 160


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.

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