

M. E. RINKER, SR.  
SCHOOL OF BUILDING CONSTRUCTION  
UNIVERSITY OF FLORIDA

Course Outline

**BCN 3521C – Electrical Systems (2 credits)**

PREREQUISITE: None

DESCRIPTION: Principles and practices of electrical systems, including code provisions and cost estimations.

METHOD: Two lecture hours and one lab hour per week.

OBJECTIVES: To teach the students the fundamentals of electrical systems, interpret electrical construction documents, apply electrical codes, and understand electrical estimates.

STUDENT LEARNING OUTCOMES:

Upon completion of the course students will demonstrate their ability to:

- ❶ Have a basic understanding of electrical fundamentals (ACCE SLO 10)
- ❷ Be aware of safety issues in dealing with electrical systems (ACCE SLO 10)
- ❸ Read and interpret electrical drawings, specifications, and codes (ACCE SLO 8)
- ❹ Possess knowledge of boxes and conduit, service and distribution, transformers, grounding, branch circuits and feeders, motors and motor controls, lighting, fire alarm systems, and low voltage systems. (ACCE SLO 6)

REQUIRED MATERIALS:

1. Mullin, R.C. and Simmons, P. (2012). Electrical Wiring: Commercial 14th ed. Delmar, Clifton Park, NY (978-1-4354-9829-7)

GRADING SYSTEM:

Homework (10 @ 1% each)	10%
Quizzes (13 @ 1% each)	13%
Exams (3 @ 15% each)	45%
Lab Assignments	12%
Final Exam	20%
Total	100%

Grades will be computed according to the following scale: A=93-100; A- =90-92.9; B+ =87-89.9; B=83-86.9; B- =80-82.9; C+ = 77-79.9; C=73-76.9; C- =70-72.9; D+ =67-69.9; D=63-66.9; D- =60-62.9; E<60.

ASSESSMENT METHODS

Assessment	SLO 6	SLO 8	SLO 10	SLO 11
Final Exam	X		X	X
Lab		X		

Assessment	Target
Final Exam	At least 80% receive a C- or better
Lab	At least 80% receive a B- or better