

Spring Fall 2016
Course Syllabus - Numerical Mathematics - ELEC105
SOUTHERN MAINE COMMUNITY COLLEGE
South Portland, Maine 04106

Title: Introduction to Electricity

Credit Hours: 3

Instructor: Harry Applin

Office Help Times: on-line

Course website <http://harryapplin.com/elec105/>

Catalog Number: ELEC105 _____

Total Contact Hours: 45

e-mail: happlin@smccme.edu

Class Time: MW _____

Course Description:

This course is one of two foundational courses in the study of electricity. It examines direct current (DC) circuits, voltage, current, resistance and power. Students will learn to build, test and troubleshoot different types of circuits (series, parallel and series/parallel).

A grade of C or better is required to move onto the next electrical course (ELEC-115).

Prerequisite(s): MATH-050

Corequisite(s): MATH-145

Course Objectives

Electrical safety

Basis Electrical Concepts

Basic Electric Components and Meters

Ohm's Law and Power

Series Circuits

Parallel Circuits

Series-Parallel Circuits

Residential Electrical Circuits

Course Requirements

Students are expected to attend all scheduled classes, do the homework assigned each day for the next class, take tests and be active participants in the class. **There are no makeups of Tests or Quizzes. If you miss more than 4 class, you fail the class. I do not accept late work, no exceptions.**

Required Text, Tools, and/or Supplies:

Introduction to Electricity, Robert Paynter Pearson Publishing

Student Evaluation and Testing

Grading the course is (based on 1000 points):

15% Exams – Tests 1 @ 150 points = 150 points

30% Lab assignments = 300 points

25% Homework/Notebook = 250 points

Outline each chapter, all lecture notes and homework and lab notes are to be done neatly on paper and kept in a binder

30% quizzes 6 @ 50 points each = 300 points

Attendance Policy

Each student is given one day without penalty. The second day will see 50 points subtracted from the grade. The third day will see a 100 point reduction to the grade. The fourth day will receive an Academic Fail AF.

Grading policy stated in the SMCC Student Handbook for your final course grades:

A	93 - 100	B+	87 - 89	C+	77 - 79
A-	90 - 92	B	83 - 86	C	73 - 76
		B-	80 - 82	F	failure

A temporary grade of "I" may be given when a student has, due to extraordinary circumstances, failed to complete all required course work by the end of the semester. This assumes that the student has made a consistent and persistent effort up to the point the "circumstances" occurred and that MOST course work has been completed.

Topical Outline of Instruction:

Chapter 1	Getting Started
Chapter 2	Basis Electrical Concepts
Chapter 3	Basic Electric Components and Meters
Chapter 4	Ohm's Law and Power
Chapter 5	Series Circuits
Chapter 6	Parallel Circuits
Chapter 7	Series-Parallel Circuits
Chapter 8	Residential Electrical Circuits

END-of-COURSE EVALUATION

In order to gain access to final course grades, students must complete evaluations for each course attended at SMCC. Evaluations are submitted online and can be accessed through the student portal site. Students can access the course evaluation report beginning two weeks before the end of classes. The deadline for submission of evaluations occurs 24 hours after the last day of classes each semester. Instructors will announce when the online course evaluation is available.

ADA SYLLABUS STATEMENT

Southern Maine Community College is an equal opportunity/affirmative action institution and employer. For more information, please call 207-741-5798.

If you have a disabling condition and wish to request accommodations in order to have reasonable access to the programs and services offered by SMCC, you must register with the disability services coordinator, who can be reached at 741-5629. There will be some documentation for your teachers that must be supplied before accommodations can be given. Further information about services for students with disabilities and the accommodation process is available upon request at this number.

ADD-DROP POLICY

Students who drop a course during the one-week "add/drop" period in the fall and spring semesters and the first three days of summer sessions receive a 100% refund of the tuition and associated fees for that course. Please note any course that meets for less than the traditional semester length, i.e., 15 weeks, has a prorated add/drop period. There is no refund for non-attendance.

WITHDRAWAL POLICY

A student may withdraw from a course only during the semester in which s/he is registered for that course. The withdrawal period is the second through twelfth week of the fall and spring semesters and the second through ninth week of twelve-week summer courses. This period is pro-rated for shorter-length courses. To withdraw from a course, a student must complete and submit the appropriate course withdrawal form, available at the Enrollment Service Center (no phone calls, please). The designation "W" will appear on the transcript after a student has officially withdrawn. A course withdrawal is an uncompleted course and may adversely affect financial aid eligibility. Failure to attend or ceasing to attend class does not constitute withdrawal from the course. There is no refund associated with a withdrawal.

PLAGIARISM STATEMENT

Adherence to ethical academic standards is obligatory. Cheating is a serious offense, whether it consists of taking credit for work done by another person or doing work for which another person will receive credit.

If it is suspected that a student in any course in which s/he is enrolled has knowingly committed such a violation, the faculty member should refer the matter to the College's Disciplinary Officer and appropriate action will be taken under the Student Code of Conduct. Sanctions may include suspension from the course and a failing grade in the course.