LEXINGTON COMMUNITY COLLEGE
SYLLABUS

COURSE: ETE-111 Electric Circuits II
4 Credit Hours – 5 Contact Hours

INSTRUCTOR: Robert J. Blake

OFFICE: MB 137 PHONE: 257-4872 ext. 4110

OFFICE HOURS: As posted and by appointment

PROGRAM COORDINATOR: Michael Binzer OFFICE: MB 125 PHONE: 257-4872 ext. 4109

DIVISION PHONE: 257-4872 ext. 4004

DIVISION CHAIR: Ms. Cindy Barber, MB 118, Phone 257-4872 ext. 4112

PREREQUISITE: ET/ETE-110 or consent of instructor; prerequisite or concurrent MA 110 or MA 112

TEXT Introductory Circuit Analysis., Boylestead

DESCRIPTION

Alternating Current (AC) and Direct Current (DC) circuits are covered in greater depth. Emphasis is on impedance, reactance, power and electrical energy, electrical measurement instruments, and circuit analysis.

OBJECTIVE

To develop the skills and knowledge required for the analysis and troubleshooting of alternating current circuits.

PROCEDURE

Two – 1-hour and 15 minute lecture and recitation periods and one 2-hour laboratory exercise per week.

Numerous example problems will be illustrated by the instructor, and students will discuss solutions to assigned homework problems.

Two one hour examinations will be given as well as several unannounced quizzes. There will be a comprehensive examination given at the end of the semester. Examinations and quizzes will cover classroom laboratory activities.

Student performance is graded by quality and quantity of completed homework assignments, proficiency in laboratory exercises and written reports of results, and quality of examination results.

GRADING

Two tests 100 points each	200
Ten quizzes 10 points each	100
Written laboratory reports	100
Final examination	200
Total	600

530 – 600 points	A
460 – 529	B
390 – 459	C
320 – 389	D
Below 320 points	E

LATE WORK POLICY

Work submitted later than one class period past due date will have a reduction in grade commensurate with the lateness of the work.

WITHDRAWAL POLICY

A grade of “W” will be given to any student officially withdrawing from this course up to and including the last day of classes.

MAKE UP POLICY

Quizzes, tests and laboratory assignments may be made up if missed for a valid reason as determined by the instructor.

ETE 111
TOPICAL SEQUENCE

1. Magnetic circuits
2. Inductors
3. Sinusoidal Alternating Waveforms
4. The Basic Elements and Phasors
5. Series and Parallel ac Circuits
6. Series-Parallel ac Networks
7. Methods of Analysis
8. Network Theorems
9. Power
10. Resonance
11. Transformers
12. Three Phase Systems