

COURSE SYLLABUS

INSTRUCTOR: LEAH M. AKINS
COURSE: LINEAR ELECTRONICS II –ENT 202 (DCC)

THE NUMBERS

Contacting the Instructor: Bell Atlantic students, please use Lotus Notes! Write to Leah Akins.

OFFICE LOCATION	TACONIC 108 (NEAR 1 ST FLOOR EXIT)
VOICE MAIL	845-431-8421
ON-CAMPUS	EXTENSION 8421
E-MAIL	AKINS@SUNYDUTCHESS.EDU
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OFFICE HOURS	As posted at office and on web site
EMERGENCIES – ONLY BEFORE 9pm	845-795-2016

COURSE DESCRIPTION

The course is designed to train students in the analysis and applications of advanced electronics circuits. Topics include differential amplifiers, operational amplifier circuits, active filters, D/A and A/D circuits, and oscillators. Topics specific to electronic communication are addressed. Discussion of these circuits will focus on practical applications, troubleshooting, and analysis by computer simulation.

REQUIRED TEXTS

Operational Amplifiers and Linear Integrated Circuits, Coughlin and Driscoll, Prentice Hall, latest edition.

Electronics Devices, Floyd, Prentice Hall, latest edition. (Used as an alternative reference).

Electronic Devices Using Electronics Workbench, Berube, Prentice Hall, latest edition.

STUDENT ASSESSMENT

The following percentages will be used to calculate the final grade:

FINAL EXAM	15%
TESTS/QUIZZES	40%
LAB ACTIVITIES	30%
LAB REPORT	7.5%
PROJECT	7.5%

There are many activities that require class and group participation, especially lab activities, therefore attendance is expected. Students who have missed class assignments which require active class participation will need to make arrangements to make up for that assignment or the student will receive a zero grade for it.

SOME MORE IMPORTANT INFORMATION

Please read the following carefully. It contains important information on the instructor's expectations of you in order to succeed in the course.

TESTS/QUIZZES: There will be six quizzes given during the semester (approximately every other week). Your lowest quiz grade will be dropped (a missed quiz is automatically a grade of zero, there are no makeup quizzes). All quizzes are individual efforts. Each student is allowed to prepare a reference sheet on a single sheet of 8 ½" X 11" paper that they can use during the quiz. Since the purpose is to BE PREPARED, students will not be allowed to copy sheets prior to the quiz nor are students allowed to share a reference sheet during a quiz. Each quiz will test your competency and understanding of the most recent material. This will likely include problems similar to those given as homework, therefore it is VERY important to have worked the problems and come to class prepared with questions. Quizzes may also include questions based on the most recent reading assignments and topics covered in lecture or lab.

LAB ACTIVITIES: Lab work will involve a wide variety of activities. You will be asked to perform virtual labs on MultiSim and to be prepared to respond to questions. You will be assessing each other on your preparedness and participation (see related handouts). You will be wiring and testing circuits and reporting on results. You will be asked to submit materials electronically. For most of these activities, **GROUPS WILL BE SELECTED AT RANDOM AND GROUP SIZES WILL VARY DEPENDING ON THE TASK.**

LAB REPORT: Each individual will submit one (1) formal lab report during the semester. You will be assigned a particular lab to write the report on. A draft copy of the report is to be submitted no later than two weeks after the lab was completed. The draft report grade is either 100 if submitted or 0 if not and is worth 2.5% of your overall grade. The draft will be returned with comments to you within one week of submittal. The final report is due within one week of returning the draft. It is expected that instructor comments are addressed in the final and the report will be critically assessed. It is also worth 5% of your overall grade.

PROJECT: A project will be assigned in the course. Work on the project will take place during the last few weeks of the course. An informational sheet will be distributed concerning the project.