

UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE

Department of Electrical and Computer Engineering

GENERAL SYLLABUS

INTRODUCTION

Undergraduate laboratory courses in the ECE department at UNC Charlotte are comprised of ten three-hours hands-on sessions and a practical examination. ECE undergraduate students are required to successfully complete four laboratory courses. The table below shows the correlation of the laboratory courses to courses, by major.

Laboratory Course	Lecture Course	Major
ECGR 2155: Instrumentation and Networks	ECGR 2111: Network Theory I	EE, CpE
ECGR 2156: Logic and Networks	ECGR 2112: Network Theory II ECGR 2181: Logic System Design I	EE, CpE
ECGR 3155: Systems and Electronics	ECGR 3131: Fund of Electronics and Semiconductors	EE, CpE
ECGR 3156: Electromagnetic and Electronic Devices	ECGR 3132: Electronics	EE
ECGR 2255: Digital Design	ECGR 3181: Logic System Design II	CpE

SCHEDULE

Meeting times, assignments and due dates are listed on each section's Moodle page.

LABORATORY MANUAL

Textbooks are not required for ECE laboratory courses. Procedures for all experiments are available on the [ECE Laboratory Website](#).

LAB SAFETY

Students must read and follow the [Lab Safety Rules](#) that are posted on the [ECE Laboratory Website](#). To stress the importance of safety, each student will be graded on safety for each lab exercise.

PRE-LABS

Pre-Lab exercises must be presented to your instructor for sign-off at the beginning of each lab class. Pre-Labs will be available for use during lab.

LAB REPORTS

Lab reports are submitted on MOODLE using Turnitin. Each report should be one file, whether it is for one experiment or three.

ECE Undergraduate Teaching Labs

GRADING

Course grades are computed in the following way:

Weekly Lab Notebook	10 points each (x10)	100 points
Weekly Pre-Lab	10 points each (x10)	100 points
Weekly Quiz	10 points each (x10)	100 points
Weekly Safety	10 points each (x10)	100 points
Report (Technical Grade)	100 points each (x4)	400 points
Report (English Grade)	25 points each (x4)	100 points
Practical Exam		100 points
Course Total		1000 points

Grading policy details are available on the [ECE Laboratory Website](#) via the [Safety, Rules and Regulations](#) link. Please read the grading policy carefully.

ACADEMIC INTEGRITY

Students work together in the laboratory to build circuits and measure data. Except for discussion and sharing of data among lab partners, collaboration ends when the lab session is over. Students must work independently to write their own reports. There must be no copying of students- generated text, tables, charts or graphs. Use of text copied from internet sources, e.g. Wikipedia is strictly forbidden. Raw data aside, any duplicated work submitted will be viewed as cheating, and will result in disciplinary action according to [University Policy 407](#). Copying of any other work without including a reference to it in your citations is plagiarism, and will be dealt with according to [University Policy 407](#) on Academic Integrity. In addition, simply copying and pasting anything, even with a citation, including text from the Lab Procedure posted on the ECE website is, at best very poor form, and will result in points deducted from your grade. ECE labs are writing intensive courses, and as so should be reported upon in your own words.

TURNITIN- PLAGIARISM CHECKING

Lab reports will be submitted for textual similarity review to Turnitin and included as source documents in the reference database solely for the purpose of detecting plagiarism. No student reports will be submitted to Turnitin without student's consent and permission ([Turnitin Consent Form](#)). If a student does not provide such consent and permission, plagiarism checking will be accomplished by other means.

EMERGENCY CLOSINGS

In the event of inclement weather or local emergency, check the UNC Charlotte website for emergency closing announcements. If the university is closed, lab classes are canceled. Lab classes will resume on schedule when the university reopens. Lab instructors will arrange make-up sessions for labs canceled due to unscheduled university closings.

RELIGIOUS HOLIDAYS

Students wishing to be excused from classes for religious holidays must submit a Request for Religious Accommodation Form before the census date.

SYLLABUS REVISIONS

This syllabus may be modified as the course progresses. Notice of changes will be by email or in-class announcement.

Prepared by: Dr. Benny Rodriguez, Electrical and Computer Engineering on July 30, 2015.