EE101 Introduction to Electrical Engineering

Course Syllabus **Fall 2010**

Lecture: Tuesday 1100-1215 Workman 113

Lab: (Sect. 1) Thurs 0900 – 1200 Workman 116 (SW door), occasionally Workman 189
(Sect. 2) Thurs 1400 – 1700 Workman 116 (SW door), occasionally Workman 189

Instructor: Andrew Tubesing 835-5205 tubesing@ee.nmt.edu www.ee.nmt.edu/~tubesing

Office Hours: Workman 181: Specific times TBA (see schedule on instructor's web site). Also normal business hours as available or others by appointment. I am usually in from at least 9 to 12 and 1 to 4, plus other hours varying by day. If my light is on I am in the building, feel free to find me. If you have questions and can't find me, please send them by email. I check email often, up to at least 10 pm daily.

Communication: Coming to class is the primary communication method for us. There is a class web site at www.ee.nmt.edu/~tubesing/ee101 where much of the course information and material is available, but it is not a replacement for attending class to get the latest details. I will occasionally email the class using the contact info you have listed with the registrar/banner system. Please check that contact info and be sure it's up to date, especially the email address.

Conduct: You are expected to behave in a respectful manner at all times.

- Electronic devices (including but not limited to cell phones, pagers, video games, iPods, and gizmos that haven't been invented yet) must all be turned off for the duration of class/lab.
- Calculators may or may not be allowed during exams, at the instructor's discretion.
- Disruptive behavior will not be tolerated in class or lab. In general, treat the class and your classmates with respect.
- Academic honesty is a serious issue, and the NMT policy must be adhered to. Please read it, be familiar with it, and follow it: http://externalweb.nmt.edu/aaffairs/new/policies/faculty/acadhonesty.pdf

Text & Supplies: List of supplies for lecture and lab portions of the course

- Electronics, 2nd Ed, by Crecraft & Gorham, ISBN: 978-0748770366 (recommended but not required, Available from NMT bookstore, online or from a former student, check instructor web page for links to online sources)
- Comp book – black & white bound notebook with graph paper (required)
- Scissors, tape, glue stick (whatever you prefer for a cut & paste lab book)

Summary: This course is designed as an introduction to the basic concepts of Electrical Engineering. We will cover topics in analog and digital electronics, binary systems, computer simulations, and circuit construction. The textbook, lectures, computers, and laboratory equipment will play a vital role in this course. Our goal is to familiarize you with these tools and give you an opportunity to become proficient in the basic skills required for electrical engineering coursework.

Lecture and lab each meet only once per week, therefore it is imperative that you attend lectures and complete assignments on time. Extra help is available and you are encouraged to seek it whenever necessary. Homework and prelab assignments will need to be started well ahead of the due date to allow time to get help. Do not leave your work for the night before, falling behind is difficult to recover from. Keep in mind that the purpose of all your work in this or any other course is *learning the material*. Practice is the key to learning anything, so start early, get help, and practice to mastery. ⇨

Grading: As the lab and lecture portions of this course are closely integrated, the same combined grade will be given for both. Grades are weighted as follows:

Lab Exercises:	25%
Exams (3):	30% (10% each)
Homework & Questions	25%
Formal Report:	10%
Final Exam	10%

- Homework, Questions, and prelab assignments are due at the beginning of class/lab.
- Late work may or may not be accepted at the discretion of the instructor, and will receive a maximum of half credit.
- All submitted work must be stapled.
- Exams will cover material from lectures, homework, prelabs, lab exercises and reading material - including material from previous exams. Most (or possibly all) exams will not allow a calculator.
- Grading of homework and exams is focused on conceptual grasp of the material. Always show all work to demonstrate your competence with the subject matter. Getting the correct answer is one goal of your work, but the conceptual process is also critical. In cases where the answer is an observation from a graph, plot, table, etc, mark the source on your paper to show where your observations came from.
- Lab exercises and homework assignments are posted on the course web page, you are responsible for procuring them yourself: www.ee.nmt.edu/~tubesing/ee101

Dates: Tentative dates – subject to change.

Exam 1	TBA
Exam 2	TBA
Exam 3	TBA
Formal Report Due	TBA