Instructor  John A. Goree  
512 VAN, 335-1843, john-goree@uiowa.edu

Lectures  301 VAN, Tu Th  9:30 - 10:45

Office Hours  You may see me immediately after the lecture, or any time in my office.

Prerequisite  An introductory course on electricity and magnetism, also some calculus

Purpose  To train science students, both undergraduate and graduate, to:
  • build small practical circuits
  • make electronic measurements.

The laboratory is the focus of the learning experience in this course. The lecture serves primarily to prepare students for the laboratory.

This course is not highly theoretical. It has less math and less homework than most 100 level physics courses.


Textbook  Horowitz & Hill  The Art of Electronics, 2nd Ed.

Laboratory  561 VAN, beginning the first week
Directed by TA
You must provide:  a notebook with bound pages
lab manual sold by University Book Store
Always draw schematic (& oscilloscope waveform if any) in notebook.
You will be given a parts kit, value $20. It’s yours to keep. We bought it with your lab fees.

Special Project
  • Toward the end of the semester, you will design and build a circuit of your own to meet whatever purpose you like.
  • There will be no lectures and no regular lab exercises during this period.
  • You will give a 10-minute presentation in class on your proposed project.
  • You are responsible for finishing the project on time and paying for your supplies.

Homework  Six assignments.
Some assignments require Multisym software, which gives you a lab-like experience.
Draw schematic diagrams neatly. Staple the pages and draw a box around the answer.

Computer  Multisym software is available in 201 VAN. I recommend finishing before 5 pm.

Exams  Midterm Exam:  Oral
Written Final Exam:  4:30 pm, Thur May 16, closed book, covers the entire course

Grading  Midterm Exam  10 %
Final Exam  30 %
Homework  10 %
Lab  25 %  (for details, see lab grading policy on a separate page)
Lab Special Project  25 %  (for details, see lab grading policy on a separate page)

Disabilities  I would like to hear from anyone who has a disability which may require some modification of seating, testing, or other class requirements so that appropriate arrangements may be made.