

Coverage: Logic circuit syntax and synthesis, and sequential logic circuits. Semiconductor devices to include diodes and transistors (bipolar-junction transistors and field-effect transistors) and their circuit topologies and constructs. Operational amplifiers and circuits thereto.

Textbook A.R. Hambley, **Electrical Engineering, Principles and Applications**, 3rd edition

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|-----------------------------|---------------|-------------|--------------------|
| Certification: | Homework | 250 pts | |
| | Quizzes (4) | 500 pts | |
| | Final exam | 200 pts | |
| | Discretionary | 50-75 pts* | *Nominal = 50 pts. |
| | Total | 1000(+) pts | |
| Certification scale: | 900 < g | A | |
| | 800 < g < 900 | B | |
| | 700 < g < 800 | C | |
| | etc. | | |

Protocols and requirements:

- Homework:**
- Use engineering paper (else -10%)
 - Neat systematic, answers encircled (else -10%)
 - Concise. Each problem exercise < 1 page

Homework is late if not turned in at the beginning of the class hour on the specified due date. Late homework penalty = 20% per class period. If late more than 5 class meetings, no credit. No late work will be accepted after the next-to-last regularly scheduled class meeting

Assignments will be made (a) via schedule (class website) and (b) via email. Most conversational updates, corrections, and hints will be passed by email.

The former ECE email environment has been merged with that of the university and so any references to the separate ECE email environment should be treated as historical artifacts.

Any evidence of copied homework will default score and discretionary points to zero. Since posted homework is modified from one semester to the next, copied work from old homework solutions is a visible red flag. If you want to jeopardize your career over something as stupid as a few homework points or an alphabetic letter, go ahead and your professor will reluctantly fill out the academic dishonesty paperwork in your behalf

- Quizzes:**
- Closed book, closed notes
 - Neat, systematic, answers encircled. Use space provided on test

Connections: The best means you have for contact with your instructor outside of the classroom setting is via email. And often he can ping (or broadcast, if appropriate) an answer to your questions via the email environment. Otherwise normal office hours otherwise are 3:00-5:30 MWF and 3:30-5:50 TT, but you should also make an appointment so that he will know to expect you.

The class URL is <http://www.ece.msstate.edu/~winton/classes/ece3283/> and most of the answers to your questions will be there, as well as the supplemental and support materials that are directed toward your interests.