# EE442-448: Intro to Circuits/Instruments/AC-Circuits/Motors
# http://www.eng.iastate.edu/∼rkumar/EE442-448

| | Instructor | TA1 | TA2 | TA3 |
|---|---|---|---|---|
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**Text:** *Electrical Engineering: Principles & Applications*, A. R. Hambley, Prentice Hall, 4th Edition, 2007.

**Course Description:**

- Introduction (Chapter 1)
- Resistive Circuits (Chapter 2)
- Inductance and Capacitance (Chapter 3)
- Transients (Chapter 4)
- Steady-State Sinusoidal Analysis (Chapter 5)
- Magnetic Circuits and Transformers (Chapter 15)
- DC Machines (Chapter 16)
- AC Machines (Chapter 17)

**Grading Scheme:**

- Home works will be assigned on a weekly basis. They will be due a week later (typically on a Wednesday). Prior arrangements must be made for a possible late submission. A TA will grade the home works, so please contact your TA for questions regarding your home work grades.
- There will be weekly labs, starting the second week of classes. EE 442 labs will be conducted in pairs whereas EE448 labs will be conducted in groups of 4 (so decide on your lab-partner(s)). The TAs will jointly be incharge of the lab sections. They will help students with the labs and also grade the labwork. Pre-labwork will be due at the beginning of the lab, and labwork will be due at the end of the lab. Prior arrangements must be made for a late submission.
- There will be 2 short quizzes and 2 exams given in each class. Make-ups will be given only for unanticipated events (medical, emergency travel, etc.); adequate documentation is required to be provided to the instructor, and possibly in advance.
- The overall distribution of grades is obtained as:

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|---|---|---|
| Home works: | 15% | |
| Labs: | 25% | (prelabs 10%, lab-reports 15%) |
| Quizzes: | 10% | |
| Exams: | 50% | |
| Total: | 100% | |

- Final letter grade will be assigned based on class score distribution, (class average is B-), and at least 50% is required to pass the course.