MAE 140: Linear Circuits
T/Th 5:00–6:50
Room: Center 101

Instructor: Prof. William McEneaney
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Office hours: Wednesday 3:00–4:00  (or contact me to set up a time)

TAs: (alphabetically)
Andrew Liu
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Mansi Sheth
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office hours: Thursday, 11:00-12:00  (or contact them to set up a time)

Objective: You will develop the ability to design and predict the behavior of simple standard circuits. Although the majority of you may not directly work on the design of such in your careers, the underlying concepts are ubiquitous in engineering systems, including mechanical, aerospace and chemical plant models.

Grading: The final course grade will be calculated as follows:
Homework and Problem Sessions: 20%
Quiz 1: 18%
Quiz 2: 18%
Quiz 3: 18%
Final Exam: 26%
Class Participation Modifier: ±3%
(Typically, the overwhelming majority have 0% modification.)
Homework will be due at the **beginning** of class. Homework handed in later that day will still be accepted but with a loss of 15% of that homework grade. Homework cannot be handed in later than 7:00PM on the due date. Not all homework problems will be graded. One homework assignment grade will be dropped.

**Content:** Basic circuit analysis, including resistors, capacitors, inductors and OP AMPs. Linear first-order and second-order circuit behavior, and Laplace transform methods.