

Class: T/R 8:00-9:15 Kirk Auditorium

Instructor: Godi Fischer, Professor, ENG 417 E-mail: fischer@uri.edu

Office Hours: M 3:00-5:00 pm, W 3:00-5:00 pm, R 3:00-5:00 pm

TAs: Thomas Mauldin, ENG 425 E-mail: thomas_mauldin@uri.edu
Noah Johnson, ENG 430 E-mail: noah_johnson@uri.edu

Text: Behzad Razavi: Fundamentals of Microelectronics.
John Wiley, 2013, ISBN 978-1-118-15632-2

Syllabus:

1. Introduction (chapter 1)
2. Review of Linear Circuit Theory
3. Nonlinear Circuit Elements (chapter 3)
4. Nonlinear Circuit Applications (chapter 3)
5. Bipolar Junction Transistors (chapter 4)
6. Basic Bipolar Transistor Amplifiers (chapter 5)
7. MOS Transistors (chapter 6)
8. Basic MOS Transistor Amplifiers (chapter 7)
9. Operational Amplifiers as a Black Box (chapter 8)
10. Current Mirrors (chapter 9)

Exams:

1. **R 10-10-19, 08:00 am – 09:15 am**, 2-page summary
2. **R 11-14-19, 08:00 am – 09:15 am**, 3-page summary
3. **T 12-17-19, 08:00 am – 11:00 am**, Final, 4-page summary

Grading:

The final grade will be computed as a weighted average of all **quiz scores** (25% total), **two** intermediate exams (20% each) and the **final** exam (35%). **Note:** There will be **one quiz** per week and **30%** of the quiz score can be earned through **participation**.

Labs:

The electronics labs will be conducted by instructor-defined teams of up to 3 students. For further information regarding lab conduct and grading scheme, please consult the ELE339 web page at www.ele.uri.edu/courses/ele339/fall2018/