ESE 211: Electronic Laboratory A

Web site: www.ece.sunysb.edu/~oe/leon.html
visit website regularly for updates and announcements

Prerequisites: MAT 127 or 132 or 142; PHY 126 or 132 or 142; ESE 271

D. Neamen, “Electronic Circuit Analysis and Design”,
J.A. Svoboda, “PSpice for linear circuits”, second addition,
Wiley, ISBN 9780471781462

Instructor: Leon Shterengas (631-632-9376, leon@ece.sunysb.edu);
Office hours: TU,TH 9.30-11.30am, Light Engineering Bldg. 143

Teacher assistants: Ding Wang (631-632-9741, wangding1985@gmail.com)
Seungyong Jung (631-632-9741, jsywind@gmail.com)
(see website for changes)

Grading: Labs - 40%, Quizzes - 20%, Midterm - 20%, Final - 20%
Any questions regarding the grading of laboratory reports must be resolved within one week after grading is done.
ESE 211: Electronic Laboratory A

Fall 2008
2 credits

The core of ESE211 is set of laboratory experiments designed for step by step introduction into electronic circuit analysis and design. The weekly (very short) lectures cover (minimum) theoretical background for the laboratory experiments.

Lectures: Harriman Hall, Room 116
TU 8.20am - 9.15am

Each lecture will start with 5min quiz covering material presented in the previous class (20% !!!). Only one quiz per semester can be dropped. It will not be possible to make up missed quiz.

Students will select a laboratory partner at the first meeting of laboratory section. Groups of more than two students are not permitted. Students must be registered for one of the following laboratory sections:

Experimental laboratory: Light Engineering, Room 283. Contact Person: Anthony Olivo
Lab. Sec. 1 TU 6:50pm - 9:50pm
Lab. Sec. 2 TH 6:50pm - 9:50pm

Changes between laboratory sections will be permitted during the first two weeks of the course. To change sections students must talk to Mrs. Huggins, Room 267, Light Engineering.

Computer Laboratory (PSpice): Light Engineering, Room 281. Contact Person: Scott Campbell
Student will need to obtain account to get access to CAD lab resources. Do it ASAP!!!
Laboratory Experiment Topics:

2. DC voltage and current measurements.
3. AC measurements.
4. Transient response of 1st order RC and LR circuits.
5. Frequency response of 1st order RC and LR circuits.
8. Diodes in rectifier circuits.
9. BJT large-signal and small-signal parameters.
10. BJT gain stage: frequency and transient responses.
11. MOSFET differential amplifier.

Laboratory assignments can be downloaded from www.ece.sunysb.edu/~oe/leon.html. The data obtained during laboratory experiments must be approved by TA once the work is completed. The laboratory report must be submitted to TA by the end of the next laboratory session. It will not be possible to make up missed laboratory work. Report submission after deadline will lead to subtraction of points. See website for the laboratory report preparation guidelines.
## ESE 211: Electronic Laboratory A
### Fall 2008: Tentative Schedule

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<td>Finals</td>
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