Course Objectives
To introduce the mathematical techniques and application skills needed to analyze, design, and make laboratory measurements on linear electric circuits.

Learning Outcomes

| Use Ohm's law and Kirchhoff laws to analyze resistive circuits |
| Use network theorems (including mesh currents and node voltages) to analyze resistive circuits |
| Solve 1st and 2nd order RC and RL circuits |
| Use phasors to perform AC analysis |
| Assess series and parallel resonance and calculate AC power |

Syllabus
These topics are covered in Chapters 1,2,3,4,6,7,8,9,10 and 11 in your book.
Lectures

A-Section(s): A01 (30289) & A02 (30290)

Days: Monday, Thursday
Time: 09:00 a.m. - 09:50 a.m.
Location: Engineering Computer Science (ECS) – 123

A-Section(s): A01 (30289) & A02 (30290)

Days: Friday
Time: 13:30 p.m. - 14:20 p.m.
Location: Engineering Computer Science (ECS) – 123

Labs

Location: ELW

B-Section(s): Days: Time(s):
B01&B02 Tuesday 04:00 - 06:50 pm
B03 & B04 Wednesday 12:30 - 03:20 pm
B05 & B06 Thursday 04:30 - 07:20 pm
B07 & B08 Friday 02:30 - 05:20 pm

Tutorial

T-Section(s): T01 / CRN 30299
Days: Th. Tutorials start the first week of classes (i.e. Friday May 08, 2015)
Time: 10:30 a.m. – 11:20 a.m.
Location: ECS 123

Required Text

Title: Electric Circuits
Author: James W. Nilsson, Susan A. Riedel
Publisher: Prentice-Hall (Pearson Education)
Year: 2015 (10th Edition)

Optional Text

Title: Fundamentals of Electric Circuits
Author: C. K. Alexander and M. N. O. Sadiku
Publisher: McGraw-Hill

References: Lecture notes and article reprints available on website:

https://www.ece.uvic.ca/wiki/~elec250/doku.php?id=start

Assessment:

Assignments: ----- TBD
Labs 10%
Test I 10% Date: TBD
Test II 15% Date: TBD
Test III 15% Date: TBD
Test IV 15% Date: TBD
Test V 15% Date: TBD
Test VI 20% Date: TBD
Final ----- TBD

Dates for Tests:
The date of the tests will be determined in the class.
Note: Failure to complete all laboratory requirements will result in a grade of N being awarded for the course. Failure to pass the final exam will result in a failing grade for the course.

The final grade obtained from the above marking scheme for the purpose of GPA calculation will be based on the percentage-to-grade point conversion table as listed in the current Undergraduate Calendar.

There will be no supplemental examination for this course. The rules for supplemental examinations can be found in the current Undergraduate Calendar.

http://web.uvic.ca/calendar/FACS/UnIn/UARe/Grad.html

Note to Students:
Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the Chair of the Department by email or the Chair's Secretary to set up an appointment.

Accommodation of Religious Observance
http://web.uvic.ca/calendar/GI/GUPo.html

Policy on Inclusivity and Diversity
http://web.uvic.ca/calendar/GI/GUPo.html

Standards of Professional Behaviour
You are advised to read the Faculty of Engineering document Standards for Professional Behaviour in current Undergraduate Calendar, which contains important information regarding conduct in courses, labs, and in the general use of facilities.

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult entry in current Undergraduate Calendar for the UVic policy on academic integrity.

http://www.uvic.ca/engineering/assets/docs/professional-behaviour.pdf

Course Lecture Notes
Unless otherwise noted, all course materials supplied to students in this course have been prepared by the instructor and are intended for use in this course only. These materials are NOT to be re-circulated digitally, whether by email or by uploading or copying to websites, or to others not enrolled in this course. Violation of this policy may in some cases constitute a breach of academic integrity as defined in the UVic Calendar.