

ELEC2607A [32183] Switching Circuits (LEC) Fall 2020

Course Information

What technology you need for this course: Congratulations, half of what you need is in place (Assess to CuLearn). You will also need to have a on your computer a microphone setup to transmit voice and a video camera to transmit live video. You will need the microphone and video to interact with your TA during the Hands-On circuit demonstrations. You will at least need the microphone such that you can ask questions during the lecture discussions and for discussions with your TA when they are providing you lab help. Make certain that you have these setup before the start of the course. (You will probably need these setup for other courses as well.) **NOTE:** Not all internet browsers will allow microphone and video interaction. Try different internet browsers and login to CuLearn,.....

Lectures: Lectures are Tuesday and Thursday **11:35 to 12: 55 OTTAWA TIME**. The lecture and date is indicated below as a course topic. The lecture notes, slides, ... are available for review starting two days before the lecture. You should review the notes and slides prior to the on-line lecture discussion. Additional details will be included in the lecture topic sections.

Assignments: Assignments will be posted as a separate topic at the appropriate place within the lecture topics. Additional details will be included in the assignment topic sections.

Laboratories: There are 7 different lab sections. On the day of your lab, the lab session runs from **14:35 to 17:25 OTTAWA TIME**. Your TA(s) should be available during the Ottawa time slot through a CuLearn video conferencing venue. Your TA(s) will also monitor their e-mail and respond as promptly as possible. Additional details will be posted in the lab topic sections. The lab topic opens up one week before the start of the lab.

Hands-On Demonstrations: Your TA(s) will access the on-line video conferencing venue at the start of your lab session until the end of your lab session. Each student will have 5 minutes for the demonstration of the hand-on circuit(s). A schedule for demonstration time will be posted. It is important that you follow it. For those students who may have other time constraints, your TA(S) will also be available 1.5 hours before your lab session and up to 1.5 hours after your lab session for circuit demonstrations. You will need to contact your TA by e-mail informing them that you wish to demonstrate your circuit OUTSIDE the regular lab time.

Final Exam: The final exam for this course will take place (???) . I have created a final exam topic below and I will put exam information there.

- Components required by students

Labs 1, 2, 3 and 4, now contain a hands-on component that the student is to complete at home. This requires that the student purchase several components from on-line suppliers like Amazon.ca or Digiky.ca. It is important that you purchase the components as indicated. Substitution components may or may not work properly in these labs. The included file is a listing of components needed with suppliers and expected cost. I think you can get

everything you need for under \$100.00 CDN. I believe this to be a reasonable expense for this course as you are not required to purchase an expensive textbook.

The at home HANDS-ON labs are utilized to replace the in class mid-term examination. See course marking scheme for details on how your final grade will be calculated.

The lab portion of this course requires 7 reports; one for lab 1, two for lab 2, two for lab 3 and two for lab 4. These are individual lab reports. Each student is required to submit their lab report through the ELEC 2607 course web access. Submissions by e-mail, text.... are not acceptable.

Each lab exercise is composed of two major parts. The first part is the DOE LAB. The DOE LAB part with the PRELAB will contribute to the lab grade for the course and should be submitted as a separate report. The second part is the HANDS-ON LAB. The HANDS-ON part and TA DEMONSTRATION OF CIRCUITS will contribute to the mid-term grade for the course and should be submitted as a separate report..

Lab schedule: Lab 0 (week of September 14 and 21), Lab 1 (week of September 28 and October 5), Lab 2 (week of October 12 and 19), Lab 3 (week of November 2 and 9), Lab 4 part 1 (week of November 16 and 23), Lab 4 part 2 (week of November 30 and December 7)