
Instructor information

Name: Dr. Carlos Rossa

Office: ICE 11-367

E-mail: rossa@ualberta.ca

Office hours: Tuesday 9 am to 11 am and Thursday 12:30 to 14:30. You are welcome to drop by at other times or preferably send me an email to arrange an appointment.

Marker information

Name: Sameir Deif

E-mail: deif@ualberta.ca

Schedule Information

Lecture times: M, W, F, 10:00 - 10:50 am

Lecture location: NRE 1-001

Course webpage

→ You should register at <https://eclass.srv.ualberta.ca/portal>

→ A number of slides have been posted on this website already. They are incomplete now, will be completed in class, and re-posted to the website.

→ I recommend that you print and bring your copy of the incomplete notes to the class, and add your notes on them.

→ Annotated pdf's will also be available at <https://www.ece.ualberta.ca/~rossa> after each class.

Course content

The overall objective of this course is to introduce the student to the study of digital systems. This course serves as a building block in many disciplines such as digital control, micro-controllers, digital computers etc.

The goal of this course is to perform arithmetic operations in different number systems, manipulate Boolean algebraic structures and expressions, implement the Boolean functions using logic gates, analyse and design various combinational logic circuits, and to understand the basic functions of flip-flops and sequential circuits.

Marking scheme

Assignments: 10%

Laboratories: 15%

Midterm exam: 25 %

Final exam: 50%

Text book (optional)

→ Fundamentals of digital logic - 5th Edition. C. Roth (2006).

Calculators

- Calculators will not be permitted during exams.
- Cellphones are not permitted during exams.

Assignments

- There are eight assignments to be posted on the course website. Assignments should be put into the "ECE 210 A2" box outside the ECERF reception area.
- The solution to each assignment will also be posted on the website after its due date.

University policies

- The University of Alberta is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Code of Student Behaviour

<http://www.governance.ualberta.ca/CodesofConductandResidenceCommunityStandards/CodeofStudentBehaviour.aspx>

and avoid any behaviour which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

- Policy about course outlines can be found in Section 23.4(2) of the University Calendar.
 - Recording is permitted only with the prior written consent of the instructor or if recording is part of an approved accommodation plan.
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