

# ECE243H1S Computer Organization – Winter 2010

## Overview

- How computers represent and manipulate information.
- What is assembly language and how it relates to high-level programming languages.
- How to design a computer that works correctly
- How to interface external devices with a computer.

## Course Website

Please login to the University's Portal and then select the following course:

COMPUTER ORGANIZATION ALL SECTIONS ...

## Required and Recommended Reading

1. We will be using course notes that will be available through the course's website. We suggest you print and *bring the notes to each lecture*.

<http://www.eecg.toronto.edu/~moshovos/ECE243-2010> (lecture notes)

2. Since you do not have to purchase a book, we strongly encourage you to get a DE1 or DE2 development board:

[http://www-ug.eecg.toronto.edu/msl/handouts/buying\\_de1.html](http://www-ug.eecg.toronto.edu/msl/handouts/buying_de1.html)

3. The laboratory assignments and related notes are available through the Digital Embedded Systems labs website

<http://www-ug.eecg.toronto.edu/msl/nios.html>

4. The following book is recommended reading: Hamacher, Vranesic, Zaky, Computer Organization, 5th Edition, McGraw Hill

## Evaluation Scheme

	Percentage	Component
1	15%	Labs
2	10%	Design Project
3	20%	Midterm Exam
4	55%	Final Exam

Both exams will be “open book”, which means you can bring any printed/hand-written material you wish. There will be several lab assignments for which you will have to prepare in advance. You will have to propose and complete a project at the last few weeks of the course. For the labs we will be using an FPGA board (DE2) and LEGO Mindstorm parts.

## Instructors and Head TA

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