EXPANDED COURSE DESCRIPTION
ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Lassonde School of Engineering
Electrical Engineering Computer Science
LE / EECS 1001 1.0 SECTION B
RESEARCH DIRECTIONS IN COMPUTING
FALL 2017 / WINTER 2018

Last Modified Date: 09/13/2017

COURSE CALENDAR DESCRIPTION

An introduction to research directions within the department and more broadly within the field. Students will attend lectures and other events organised by the department. Note: This course is expected to be completed in the first year of study.

INSTRUCTOR(S)

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<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
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<tr>
<td>Allison, Robert S</td>
<td>Sec. B / LECT / Y</td>
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TOPICS AND CONCEPTS

Further information on this course can be found on the learn.lassonde webpage:
https://learn.lassonde.yorku.ca/course/view.php?id=612

Research Directions in Computing Computer Science is an exciting and wide-ranging discipline, many of whose topics will not be introduced in any technical depth until upper year courses (if at all). This course consists of a set of invited lectures by researchers in the department and a set of other organised events that will introduce the students to the breadth of computer science.

The course is organised around a series of invited talks by individual researchers and research groups, as well as a number of laboratory tours and other events that will introduce students to specific research directions in computer science, issues related to professionalism and professional societies, and opportunities to become engaged in different research and technical groups and events related to computer science.

Formally, the course will consist of 12 one-hour lectures spread over two terms. The first lecture will be organizational in nature. The remaining 11 lectures will be comprised by invited lectures by researchers (or research groups) in computer science, representatives of specific interest groups associated with computer science (e.g., Engineers Without Borders, Canadian Information Processing Society, etc.), work-study/internship/student exchange programs, and representatives of volunteer/other organizations that seek out technically literate students as volunteers.

In addition to these 12 formal lectures, a set of other extracurricular events will also be organised including research lab tours, visits to local industrial sites (e.g., IBM), special lectures directed at specific technical problems often encountered by students (e.g., running LINUX at home), etc.

This course is offered on a pass-fail basis only.

Note: Computer Science and Computer Security Majors are expected to complete this course in their first year of study.
COURSE LEARNING OUTCOMES

By the end of the course the students will be able to:

- Provide a short (e.g., one paragraph) description of at least three research areas in computer science.

GRADED ASSESSMENT

This course is offered on a pass/fail basis only. There are two components to the marking for the course, as follows.

- Markable events (quizzes, assignments and other activities identified by the course coordinator)
- A final written essay. Specifications for the essay will be given in lecture.

In order to pass the course, a student must receive a pass on 8 individual markable events and on the final essay. For example, to pass a single quiz a student must achieve 50% correct or better (i.e., at least 3 out of 5 on a 5 question quiz). Similarly, a student must achieve at least 50% on the final essay to receive a pass on that component.

ACADEMIC INTEGRITY LINKS

- Senate Policy on Academic Honesty - http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/
- Academic Integrity - http://lassonde.yorku.ca/academic-integrity

STUDENT LINKS

- Student Rights and Responsibilities - http://oscr.students.uit.yorku.ca/student-conduct
- Religious Observance - https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs
- Counselling and Disability Services - http://cds.info.yorku.ca/

Many courses utilize Moodle, York University’s course website system. If your course is using Moodle, click here to access it.

Moodle @ York University