EXPANDED COURSE DESCRIPTION
ELECTRICAL ENGINEERING AND COMPUTER SCIENCE
Lassonde School of Engineering
Electrical Engineering Computer Science
LE / EECS 1001 1.0 SECTION A
RESEARCH DIRECTIONS IN COMPUTING
FALL 2018 / WINTER 2019

Last Modified Date: 08/20/2018

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>
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<td>Baljko, Melanie A</td>
<td>Sec. A / LECT / Y</td>
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ADDITIONAL INFORMATION

Acknowledgement of Indigenous Peoples and Traditional Territories
We acknowledge our presence on the traditional territory of many Indigenous Nations. The area known as Tkaronto has been care taken by the Anishinabek Nation, the Haudenosaunee Confederacy, the Huron-Wendat, and the Métis. It is now home to many Indigenous Peoples. We acknowledge the current treaty holders, the Mississaugas of the New Credit First Nation. This territory is subject of the Dish With One Spoon Wampum Belt Covenant, an agreement to peaceably share and care for the Great Lakes region.

Expanded Course Description
Computer Science is an exciting and wide-ranging discipline. In this course, students are introduced to a breadth of topics within the discipline, some of which would otherwise not be introduced until subsequent years of study (such as in upper year courses or at the graduate level).

The course is organized around 12 one-hour class meetings, conducted over two academic terms (one class meeting every other week). The first class meeting is organizational and covers introductory material. Subsequent one-hour class meetings are organized around a series of topics. These topics may include:
- specific research directions in computer science
- issues related to professionalism and professional societies,
- opportunities to learn and apply Computer Science in different ways: e.g., work/study and student exchange opportunities, civic/volunteer opportunities, opportunities to become engaged in different research and technical groups

Topics may be covered via invited talks given by individual researchers or by representatives of research groups, specific interest groups associated with computer science (e.g., Engineers Without Borders, Canadian Information Processing Society, etc), student learning programs (e.g., work-study, internship, and/or student exchange programs), and/or community organizations that seek to engage with students with a Computer Science background.
In addition to the course’s formally-scheduled class meetings, a set of extracurricular events may be organized. These may include research lab tours, visits to local industrial sites (e.g., IBM), lectures concerning special topics of particular relevance to students in Computer Science degree programs (e.g., concerning specific technical issues often encountered by students, such as running LINUX at home, etc.).

**Course Learning Outcomes**

- By the end of the course the students will be able to:
  - Provide a basic characterization of the field of computer science in terms of its branches (formal, natural, social, applied) and its research methods (observational, correlational, experimental, formal, and others)
  - Provide a short verbal and/or written (e.g., one paragraph) description of at least three research areas in computer science.

**ACADEMIC INTEGRITY LINKS**

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

**STUDENT LINKS**

- Student Rights and Responsibilities - [http://oscr.students.uit.yorku.ca/student-conduct](http://oscr.students.uit.yorku.ca/student-conduct)
- Religious Observance - [https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs](https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs)
- Counselling and Disability Services - [http://cds.info.yorku.ca/](http://cds.info.yorku.ca/)
- York University’s Policies on Gender/LGBTQ*/Positive Space - [http://rights.info.yorku.ca/lgbtq/](http://rights.info.yorku.ca/lgbtq/)

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

[Moodle @ York University](http://www.moodle.yorku.ca)