**EXPANDED COURSE DESCRIPTION**

**ELECTRICAL ENGINEERING AND COMPUTER SCIENCE**

Lassonde School of Engineering
Electrical Engineering Computer Science

LE / EECS 3461 3.0 SECTION M
USER INTERFACES
FALL 2018 / WINTER 2019

Last Modified Date: 08/20/2018

**COURSE CALENDAR DESCRIPTION**

Introduces user interfaces and the tools and mechanisms to create and prototype them. Students work in small groups and learn how to design user interfaces, how to realize them and how to evaluate the end result. Prerequisite: cumulative GPA of 4.50 or better over all major EECS courses (without second digit "5"); LE/EECS 2030 3.00 or LE/EECS 1030 3.00. Course credit exclusions: AP/ITEC 3230 3.00. Previously offered as: LE/CSE 3461 3.00. PRIOR TO SUMMER 2013: SC/CSE 3461 3.00.

**INSTRUCTOR(S)**

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<thead>
<tr>
<th>Name</th>
<th>Section / Format / Term</th>
<th>Contact Email</th>
<th>Contact Phone</th>
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<tbody>
<tr>
<td>Baljko, Melanie A</td>
<td>Sec. M / LECT / W</td>
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**ADDITIONAL INFORMATION**

Acknowledgement of Indigenous Peoples and Traditional Territories

We acknowledges 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.

About this document

This document is a course outline. It provides a description of the course intended for students considering enrolment in this course. Students, once registered, will receive a course syllabus, which is a much more detailed document and supersedes this outlines.

Course Calendar Description

This course introduces the concepts and technology necessary to design, manage and implement user interfaces (UIs). In this course, we will study the technological aspects of UIs, including event-driven programming, windowing systems, widgets, the Model-View-Controller software architectural pattern, UI paradigms, and input/output devices. The course will also cover methodologies of user interface design and evaluation and sociotechnical concepts. Concepts will be demonstrated and illustrated via different application domains.

Prerequisites: General prerequisites; LE/EECS 2030 3.00 or LE/EECS 1030 3.00 Course Credit Exclusions: AP/ITEC3230 3.00, ITEC3461 3.00

Course Learning Outcomes

1. Foundational/Conceptual: Describe and critically evaluate three different human–computer interaction (HCI) paradigms (paradigms focused around different metaphors/models of interaction); Explain the capabilities of both humans and computers as per different models of human–computer interaction.
2. Knowledge Applied to Analysis: Describe and critically analyze various features, aspects, and issues in HCI systems; Describe HCI design principles, standards, and guidelines relative to extant HCI systems;
Discuss HCI issues in different design domains.
3. Methodology: Describe and critically reflect on Human-Centered Design (HCD) vs Technology-Centered Design methodologies for HCI systems.
4. Knowledge Applied in Design Activity: Identify and apply an appropriate design methodology toward the development and instantiation of HCI systems; apply HCI design principles, standards, and guidelines; GUI design and implementation
5. Sociotechnical: Identify and critically analyse some of the socio- technical issues of HCI systems.

Course Management and Organization
Attendance: Students are expected to attend all class meetings.
Website: The course's moodle page will be the primary mode for disseminating materials for this course. A link to the moodle page can be found at http://moodle.info.yorku.ca/. To access the moodle page, students must either be registered in the course or added with the authorization of the course director.
Format: This course has two class meetings per week. Weekly readings and/or pre-class activities will be assigned. Students are expected to arrive at each class meeting having already completed the assigned readings/activities. Class meetings will consist of lectures and in-class activities. The lectures will assume that the assigned readings have been completed. Thus, a student who has not completed the reading will not be positioned to benefit from the lecture. The in-class activities are designed to build upon the work already completed by the students from the pre-class activities.

Class meetings will be conducted by the Course Director (or occasionally by a substitute).
Evaluation: Grades will be given for both in-class activities (e.g., presentations, tests) and outside-of-class activities (e.g., assignments). There will be a final exam scheduled during the final exam period.

Course Policies
The course syllabus will contain all the course policies; selected course policies are provided here (in alphabetic order).
Absences: Class Meetings
If a student misses classes, then it is the student’s own responsibility to obtain information about missed classes.
Absences: In-Class Graded Activities
If a student is absent for evaluation that is scheduled to take place during a class meeting, then this will be treated as a missed deadline. In the case of absences longer than one class, then please speak to the course director as soon as possible.
Academic Honesty
York students are subject to policies regarding academic honesty as set out by the Senate of York University and by the Lassonde School of Engineering. All students must read the Faculty’s Policies at http://lassonde.yorku.ca/academic-integrity. Please also refer to the Senate Policy on Academic Honesty (http://www.yorku.ca/secretariat/policies/document.php?document=69).
Accessibility of the Course and Academic Accommodation
York University provides a formal mechanism for students to access academic accommodations. This is typically accomplished by a formal letter of accommodation provided by Counselling and Disability Services (CDS), and all such accommodations requests must be respected by all course staff. Any student who has a formal letter of accommodation is asked to please submit it to the Course Director when possible.
The Course Director embraces the opportunity to contribute to an equitable and inclusive environment, to identify and to mitigate/minimize barriers to learning, and to improve the process of academic accommodation. All students are invited to schedule a private appointment with the course director to discuss academic accommodations that could be helpful and that are outside of this formal mechanism.
Deadlines
Deadlines are firm. Submissions may not be made after the deadline. Opportunities for make-up graded activities will not be provided. Exceptions will be made only in cases of academic accommodation (see section 9.4) or extraordinary circumstances (see section 9.6).
Extraordinary Circumstances
An unforeseen, extraordinary circumstance is a major illness or injury, an emergency surgery, a family crisis, or other such event. In case of deadlines missed due to this type of circumstance, requests for a special arrangement may be made.

1. The request must be made in writing and in a timely manner.
2. The requests must be made on the basis of one of the following: (i) family emergency, or (ii) major medical reason.
   - family emergency: please describe the circumstance and accompany with documentation
   - medical reason: submit a signed Attending Physician’s Statement (APS). The missed deadline must fall within the period of incapacitation on the APS.
3. The Course Director will decide whether to grant a special arrangement on the basis of the submitted request.
4. If a special arrangement is granted, then the Course Director will transfer the weight from the missed course components to other course components, in a way to be determined by the course director and at the course director’s discretion.

**Lateness Penalties**
Course work must be submitted on time. No late work is accepted. (However, see section 9.6)

**Mitigating Risk**
Life holds many surprises. Students should mitigate risk by leaving an adequate time buffer for coursework and for campus travel. You may get the flu for a few days in the week leading up to a deadline. The bus may be delayed or there may be heavy traffic. Plan ahead and be prepared.

**Recordings**
Permission is required for any recordings of lectures. Permission must be requested in advance.

**Religious Observance Days**
York University is committed to respecting the religious beliefs and practices of all members of the community, and making accommodations for observances of special significance to adherents. Should any of the dates specified in this syllabus for in-class test or examination pose such a conflict for you, contact the Course Director within the first three weeks of class. Please note that to arrange an alternative date or time for an examination scheduled in the formal examination period (December), students must petition for Deferred Standing at the Registrar’s Office (please see http://www.registrar.yorku.ca/exams/deferred/index.htm and https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/wa/regobs).

**Student Conduct**
Students and instructors are expected to maintain a professional relationship characterized by courtesy and mutual respect and to refrain from actions disruptive to such a relationship. Moreover, it is the responsibility of the instructor to maintain an appropriate academic atmosphere in the classroom, and the responsibility of the student to cooperate in that endeavour. Further, the instructor is the best person to decide, in the first instance, whether such an atmosphere is present in the class. The Student Rights and Responsibilities documents can be found at the following link: http://oscr.students.uit.yorku.ca/student-conduct.

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

**Moodle @ York University**