**FACULTY OF SCIENCE AND ENGINEERING**
**York University**

## UNDERGRADUATE COURSE SYLLABUS

**Course**: CSE 1720 3.0 *v.2*

**Term**: Winter 2013

## Calendar Description

**CSE 1720 3.0 Building Interactive Systems**

This course continues an introduction to computer programming within the context of image, sound and interaction, subsequent to CSE1720 3.0. The student's foundation in basic programming will serve as a platform from which to explore the use of diverse media within interactive systems, including the WWW and simple game systems.

Topics include:

- User Interfaces (UIs)
- UI Elements
- Event driven programming
- Intro to threads
- User Interface Builders
- Guidelines for UI design
- Objects, classes and inheritance
- Interactive WWW-based systems - introduction to WWW and basic network concepts, HTML, Javascript, other WWW technologies (e.g. Flash), guidelines for WWW design
- How to design simple games and make them engaging

*Prerequisites:* CSE1710 3.0 *Course Credit Exclusions:* CSE1020 3.0, ITEC1620 3.0, ITEC1630 3.0

## Course Director

Prof. Melanie Baljko
Office: CSEB 2028
mb [at] cse [dot] yorku [dot] ca
Course consultation hours: Monday, 10-12 am or by appointment (please send email)

## Teaching Assistants

Foad Hamidi
fhamidi@cse.yorku.ca
Elnaz Delpisheh
elnaz@cse.yorku.ca

*Consultation with TAs available via course discussion forum or by appointment (please send email)*

## Course Website

http://www.cse.yorku.ca/course/1720
*please note this site is mounted for the duration of the W12 academic term after which it will be archived at:*
http://www.cse.yorku.ca/course_archive/2012-13/W/

**Course Management and Organization**

1. In addition to two weekly lectures, this course also has two different laboratory sessions. There are two different lab session: LAB01 (Thursdays, 11:30am) and LAB02 (Fridays, 10am) to accommodate all students in the class. All students must be enrolled in one laboratory session. All lab sessions take place in the Digital Media lab, CSE1002.
2. Each student is expected to attend all lectures **and** the particular weekly lab session to which he or she is enrolled.
3. The lectures will be conducted by the instructor and, occasionally, by a senior TA.
4. The weekly lab sessions will be conducted by the TAs.
5. Each student is expect to come to lecture and lab **prepared**. The required preparation (e.g., lab exercises and/or readings) will be posted to the course website at least one week in advance.
6. Each lab session can accommodate a maximum of 33 students.
    a. A student's enrolment in a particular lab session guarantees a spot for that student in that specific lab. However, if a student is more than 5 minutes late, then his or her spot shall be considered "available" under item (c) below.
    b. Students are permitted to attend a weekly lab session other than the one to which they are officially enrolled **only as space permits**. Students who attempt to attend a lab session other than the one to which they are enrolled **do so at their own risk**, since space may not be available. No accommodations shall be made for labs missed due to this reason.
7. Missed written tests and/or labtests shall receive a grade of 0. Opportunities for make-up tests will not be provided. In the case of sickness of misfortune, a student may submit a request to the instructor that the weight assigned to a missed test be shifted to other course components. Such requests must be sent by email and must be accompanied by documentation (a physician's note in the case of sickness).
8. Labtests will be conducted as per the course schedule. Labtests shall be preceded by practise sessions (the week before). Marked labtests will be discussed the following week.

**Time and Location**

| | | |
|---|---|---|
| Lectures | TR 10-11:30am | TEL 0007 |
| LAB01 | R11:30am-1pm | CSEB1002 |
| LAB02 | F10:00am-11:30am | CSEB1002 |

**Purpose and Objectives of the Course**

*See "Expected Learning Outcomes" (Course website)*

**Grading Scheme, Assignment Submissions, and Lateness Penalties**

The grading scheme for this course conforms to the "**Common Grading Scheme for Undergraduate Faculties"** which is a 9-point system based on letter grades. Tests will marked and awarded a letter grade designation (e.g., A, B, C+, etc.), each of which has a numeric equivalent. (See detailed description in corresponding Senate policy: http://www.yorku.ca/secretariat/policies/document.php?document=87)

The final grade for the course will be calculated using the weightings listed above under "Evaluation" and the numeric equivalents of each of the components.

## Evaluation

The final grade for the course will be based on the following items weighted as indicated:

| | | |
|---|---|---|
| Labtest I (to take place during **Week 04** labs: R Jan 31, F Feb 01): | 10% * | |
| Labtest II (to take place during **Week 07** labs R Feb 28, F Mar 01): | 13% * | |
| Labtest III (to take place during **Week 10** labs R Mar 21, F Mar 22): | 13% * | |
| **LABTEST SUBTOTAL:** | | **30%** |
| Written Test I (to take place during lecture R, Feb 14): | 10% | |
| Written Test II (to take place during lecture R, Mar 12): | 13% | |
| Written Test III (to take place during lecture R, Mar 28): | 13% | |
| **WRITTEN TEST SUBTOTAL:** | | **30%** |
| Week 01 Exercise: | 2.5% | |
| Week 02 Exercise: | 1.0% | |
| Week 03 Exercise: | 0.0% | |
| Week 05 Exercise: | 2.0% | |
| Week 06 Exercise: | 2.0% | |
| Week 08 Exercise: | 2.0% | |
| Week 09 Exercise: | 2.5% | |
| Week 11 Exercise: | 2.0% | |
| Week 12 Exercise: | 2.0% | |
| **EXERCISES:** | | **16%** |
| Final Exam Labtest (to take place during exam week): | 12% * | |
| Final Exam Written Test (to take place during exam week): | 12% | |
| **FINAL EXAM SUBTOTAL:** | | **24%** |

** students registered with disability services must come and speak with instruction with regards to accommodation for the labtests and the final exam labtest, since these tests **must** take place in the labs*

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**TOTAL** **100%**

- *The last date to drop courses without receiving a grade (aka the "drop date") is March 15, 2013. See* http://www.registrar.yorku.ca/enrol/dates/fw12.htm
- *According to FSE regulations (see http://www.registrar.yorku.ca/calendars/2012-2013/faculty_rules/SC/academic_standards.htm)*
    - *some graded feedback worth at least 15% of the final grade must be provided to students prior to the drop date.*
    - *No examinations or tests collectively worth more than 20% of the final grade in a course will be given during the final 14 calendar days of classes in a term.*

**Labtests I-III** In this course, the term *labtests* is used to refer to hands-on programming tests (as opposed to written tests). A labtest consists of one or more programming tasks that are given to students at the start of the lab session; students complete the programming task to the best of their ability within the allotted time and submit their code for evaluation. ***Labtests are always conducted in the Digital Media lab (CSEB1002)***. Labtests are conducted in a special test environment within which the lab computers are modified so that email and other network services are suspended. The labtest is provided via a webpage that is made available during the labtest time. Different versions of the labtest are provided to each of the three lab sections. Labtests are marked and contribute toward the final grade as described above.
Labtests are "open book" in a limited sense; hardcopy materials are allowed, but no electronic materials.

**Written Tests** will take place on the specified date during the lecture timeslot. It will consist of a series of comprehension questions, such as short answer questions (e.g., a few words to a few sentences), multiple choice questions, and software code analysis questions. The test will last 90 minutes. The written test is closed book.

**Exercises** A number of exercises will be given throughout the term. The exercises will require the students to perform a task (background research, prepare UML class or UML object diagrams, prepare memory diagrams). Approximately one week will be provided for the completion of these tasks.

**The Final Exam Labtest and Written Test** will take place during the regularly scheduled examination period following the end of the term. The examination will last 180 minutes, 90 minutes of which will be spent on the written test and 90 minutes of which will be spent on the labtest component. The labtest component will take place in CSEB1002. The written component will take place in a nearby lecture hall (location to be announced when determined by the Registrar's Office). The invigilators will supervise the transition between the two venues. The class will be divided such that some of the students will follow the sequence of written test and then labtest, whereas other students will follow the sequence of labtest and the written test. Students will be randomly assigned to these two groups.
The written test is closed book.
The labtest will be "open book" in a limited sense; hardcopy materials will be allowed, but no electronic materials.

**Required Materials**
The following book is required for the course:

Roumani, H. (2011). *Java By Abstraction: A Client-View Approach.* Third Edition. Pearson.

Please purchase the correct edition. The first and second editions should not be used.
Several copies have been placed on reserve in the Steacie library and are available for 2 hour loans.

**Supplementary Reading**
Additional materials will be placed on the course website in digital form.

**Schedule of Topics and Readings**
The schedule of topics will be placed on the course website.

**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).

**Academic Honesty**

York students are subject to policies regarding academic honesty as set out by the Senate of York University and by the Faculty of Science and Engineering. All students must read the Faculty's Policies at http://science.yorku.ca/Students/Current-Students/academic-honesty-policies-and-procedures.html. Please also refer to the *Senate Policy on Academic Honesty* (http://www.yorku.ca/secretariat/policies/document.php?document=69).

**Student Conduct**

Students and instructors are expected to maintain a professional relationship characterised 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.

**About Emailing Professors: Etiquette**

- Use a proper salutation (eg "Dear Professor", not "Hey!")
- Use the "traditional" style of writing. No SMS style messages. No cutesy abbreviations (C U l8r), leetspeak, or other shorthand.
- Ensure all spelling is correct.
- Proof-read your email. Does it make sense? Is it coherent? Has the purpose of your communication been clearly conveyed? If not, revise until you can say yes.
- Be sure to include "CSE1720" in the subject line or else your email may be eaten by a spam filter.
- Sign your email with your name (first and last). Include your student number if appropriate.
- Once all of the above are satisfied, only then hit send!

**Access/Disability**

Students who feel that there are extenuating circumstances which may affect their ability to successfully complete the course requirements are encouraged to discuss the matter with the Course Director as soon as possible. Students who are registered with disability services should provide the letter of accommodation to the instructor at the earliest possible opportunity.

Students with physical, learning or psychiatric disabilities who require reasonable accommodations in teaching style or evaluation methods should discuss this with the Course Director early in the term so that appropriate arrangements can be made.

Permission should be requested in advance of any video or audio recordings of lectures.