LASSONDE SCHOOL OF ENGINEERING
York University

UNDERGRADUATE COURSE SYLLABUS

Course: CSE 1720 3.0   *v.1*

Term: Winter 2014

1. 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 CSE1710 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

2. Course Director

Prof. Melanie Baljko
Office: CSEB 2028
mb [at] cse [dot] yorku [dot] ca
Course consultation hours: Mondays, 10-11 am or by appointment (please send email)

3. Teaching Assistants

Foad Hamidi
fhamidi [at] cse [dot] yorku [dot] ca
Elnaz Delpisheh
elnaz [at] cse [dot] yorku [dot] ca

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

4. Course Website

http://www.cse.yorku.ca/course/1720
please note this site is mounted for the duration of the W14 academic term after which it will be archived at:

5. Time and Location

Lectures   TR 10-11:30am   CLH 110
LAB01   R11:30am-1pm   CSEB1002
LAB02   F10:00am-11:30am   CSEB1002

6. Required Materials

The following book is required for the course:

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

Please ensure that your obtain the **third 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.

7. Supplementary Reading

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

8. Schedule of Topics and Readings

The schedule of topics will be placed on the course website.

9. Course Management, Organization and Policies

Format:
This course has two lectures and one lab per week. There are two different lab sessions: LAB01 (Thursdays, 11:30am) and LAB02 (Fridays, 10am) to accommodate all students in the class. All students must be enrolled in one laboratory session.

The lectures will be conducted by the instructor and, occasionally, by a senior TA. The weekly lab sessions will be conducted by the TAs.

Attendance:
Students are expected to complete the require preparations and to participate in all class meetings (lectures and labs). The lectures and labs are mandatory. During class meetings, written or labtests are scheduled.

"Switching" Lab Sessions:
Each student is expected to attend the lab session in which he or she is officially enrolled. Each lab session can accommodate a maximum of 33 students, and the labs are oftentimes completely full.

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.

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" to other students who may wish to attend that specific lab.

Labtests
Labtests will be conducted as per the course schedule. Labtests are typically preceded by practise sessions (the week before). Marked labtests are typically discussed the following week.

EECS account:
All students in this course **must** have an EECS account. The EECS account is required in order to submit the coursework.
To active your EECS account, visit the URL: http://www.eecs.yorku.ca/activ8

Sending Email to the Course Director:
Students are welcome to send email to the Course Director. However, students are asked to adhere to the following:
- Use a York domain email account (cse.yorku.ca, eecs.yorku.ca, or yorku.ca) to send the email. Otherwise, the email may be eaten by a spam filter
- Include "CSE1720" in the subject line. Otherwise, the email may be eaten by a spam filter
- Follow the etiquette of emailing professors.
- Ensure that your query has not already been answered in the course materials and/or course webpage

Receiving Email:
Students in the course will be sent emails from the course director containing announcements, marked course work, and other communication. These emails will be sent to your EECS account.

Preparation:
Each student is expected to come to class meetings **prepared**. The required preparation (e.g., exercises and/or readings) will be posted to the course website at least one week in advance.

Missed Deadlines:
Any missed deadlines will result in a grade of F. Opportunities for make-up tests will not be provided. In special cases, the weight from the missed course components may be transferred to other course components, in a way to be determined by the course director and at the course director's discretion. Any request for such a special arrangement must be accompanied by a completed and signed Attending Physician's Statement (APS). The form can be found on the course website.

Lateness Penalties:
Course work must be submitted on time. No late work is accepted.

Absences:
If a student misses classes due to sickness or misfortune, then it is the student's own responsibility to obtain information about missed classes. If a student is absent for test that is scheduled for 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.

Grading Scheme:
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 issued by the Senate of York University. All course components 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.

Faculty Regulations Regarding Grading
According to faculty regulations (see http://calendars.registrar.yorku.ca/2013-2014/faculty_rules/LE/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.

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).

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.

10. Accessibility of the Course

Any student who feels that there are extenuating circumstances that may affect his or her ability to successfully complete the course requirements is encouraged to discuss the matter with the Course Director as early in the term as possible.

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.

11. Drop Date

The last date to drop courses without receiving a grade (aka the "drop date") is:
March 7, 2014
See http://www.registrar.yorku.ca/enrol/dates/fw13.htm

12. About Emailing Professors: Etiquette

- Use a proper salutation (e.g., "Dear Professor", not "Hey!")
- Use the "traditional" style of writing. No SMS style messages. No cutesy abbreviations (e.g., "C U l8r"), leetspeak, or other shorthand or slang.
- 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.
- 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!

13. The 9-Point Grade Scale

A+
numeric equivalent (9 point scale): 9
mapped from: [8.5, 9]
Exceptional: Thorough knowledge of concepts and/or techniques and exceptional skill or great originality in the use of those concepts and techniques in satisfying the requirements of a piece of work or course.

A
numeric equivalent (9 point scale): 8
mapped from: [7.5, 8.5)

Excellent: Thorough knowledge of concepts and/or techniques together with a high degree of skill and/or some elements of originality in satisfying the requirements of a piece of work or course.

B+
numeric equivalent (9 point scale): 7
mapped from: [6.5, 7.5)
Very Good: Thorough knowledge of concepts and/or techniques together with a fairly high degree of skill in the use of those concepts and techniques in satisfying the requirements of a piece of work or course.

B
numeric equivalent (9 point scale): 6
mapped from: [5.5, 6.5)
Good: Good level of knowledge of concepts and/or techniques together with a considerable skill in using them in satisfying the requirements of a piece of work or course.

C+
numeric equivalent (9 point scale): 5
mapped from: [4.5, 5.5)
Competent: Acceptable level of knowledge of concepts and/or techniques together with considerable skill in using them to satisfy the requirements of a piece of work or course.

C
numeric equivalent (9 point scale): 4
mapped from: [3.5, 4.5)
Fairly Competent: Acceptable level of knowledge of concepts and/or techniques together with some skill in using them to satisfy the requirements of a piece of work or course.

D+
numeric equivalent (9 point scale): 3
mapped from: [2.5, 3.5)
Passing: Slightly better than minimal knowledge of required concepts and/or techniques together with some ability to use them in satisfying the requirements of a piece of work or course.

D
numeric equivalent (9 point scale): 2
mapped from: [1.5, 2.5)
Barely Passing: Minimum knowledge of concepts and/or techniques needed to satisfy the requirements of a piece of work or course.

E
numeric equivalent (9 point scale): 1
mapped from: [0.5,1.5)
Marginally failing

F
numeric equivalent (9 point scale): 0
mapped from: [0, 0.5)
Failing

14. (Potential) Evaluation Scheme* SUBJECT TO FINALIZATION BY JAN 19, 2014

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

Labtest 01:	10% *	
Labtest 02:	10% *	
Labtest 03:	11% *	
Labtest 04:	11% *	
LABTEST SUBTOTAL:		**42%**
Written Test 01:	12%	
Written Test 02:	12%	
WRITTEN TEST SUBTOTAL:		**24%**
Exercise 01:	2.0%	
Exercise 02:	2.0%	
Exercise 03:	2.0%	
Exercise 04:	2.0%	
Exercise 05:	2.0%	
EXERCISES:		**10%**
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*

TOTAL	**100%**

Labtests
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": the textbook and hardcopy materials are allowed, but no electronic materials.

Term Tests (Written Tests)
Written will take place on the specified date during the lecture timeslot. A written test typically consists of a series of comprehension questions about underlying concepts and theory. The format may include 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. Exercises must be submitted electronically using the `submit` command.

The Final Exam Labtest and the Final Exam Written Test
These components will take place during the regularly scheduled examination period, at 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 roughly half of the students will first write the written test and then the labtest, whereas the other half of the students will follow the reverse sequence. An announcement will be made at the end of term as to how students will be allocated to these two groups (usually on the basis of alphabetic ordering).
The format of the final exam written test is typically the same as the term tests.
The format of the final exam labtest is typically the same as the labtests that take place during the term.