

LASSONDE SCHOOL OF ENGINEERING York University

UNDERGRADUATE COURSE SYLLABUS

Course: CSE 4461 3.0

Term: Winter 2014

1. Calendar Description

CSE 4461 3.0 Hypermedia and Multimedia Technology

Design and application of computer systems which provide information resources for learning, online-help, conceptual exploration, visualization and entertainment; e.g. hypertext/hypermedia, networked information-servers, systems for collaborative work, and "virtual reality". **One or two topics are discussed in depth using current research literature.** Normally offered in alternate years.

Prerequisites: General prerequisites, including LE/CSE 3461 3.00.

Prerequisites (Prior to Summer 2013): General prerequisites, including SC/CSE 3461 3.00.

Prerequisites (Prior to Fall 2009): General prerequisites, including AK/AS/SC/CSE 3461 3.00 or AK/AS/SC/COSC 3461 3.00.

Course credit exclusion: AK/AS/SC/CSE 4461 3.00, AK/AS/SC/COSC 4461 3.00.

2. Course Director

Prof. Melanie Baljko

Office: CSEB 2028

mb [at] cse [dot] yorku [dot] ca

Course consultation hours: Monday, 10-11 am or by appointment (please send email)

3. Course Website

www.eecs.yorku.ca/course/4461

Please note this site is mounted for the duration of the W14 academic term after which it will be archived at: http://www.eecs.yorku.ca/course_archive/2013-14/W/4461

4. Time and Location

Lectures MW 11:30am-1:00pm

CC 109 (Calumet College 109)

5. Purpose and Objectives of the Course (Expected Learning Outcomes)

The course CSE4461 W14 will focus on the topic of: **usability and accessibility of hypermedia.**

Upon completion of the course, students shall:

- i. Be able to identify and characterize several different types of hypermedia systems (historical and contemporary)

- ii. Be able to describe the conceptual foundations of the concepts of usability and accessibility as they relate to hypermedia system; be able to compare and contrast the two concepts of usability and accessibility
- iii. Be able to articulate a theoretical framework for characterizing barriers to hypermedia (e.g., technological, societal, economic); be able to provide a synopsis of disability theory as it relates to hypermedia access and usage
- iv. Be able to articulate several of the imperatives and drivers for usability and accessibility in hypermedia systems, including legislative (AODA, in particular), political, ethical, and economic.
- v. Be able to use and apply various analytical tools for the assessment of usability and accessibility; be able to conduct analyses of usability and accessibility; be able to perform certain AODA conformance analyses.
- vi. Be able to use and apply computational tools and techniques for the assessment of usability and accessibility; be able to explain the algorithmic underpinnings of these tools and techniques
- vii. Create hypermedia content that is usable and accessible (using appropriate computational tools and techniques)

6. 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:

Course Project:

Project Specification & Milestones (v.1):	5%
Milestone I:	10%
Project Specification & Milestones (v.2):	5%
Presentation (Partial Results):	10%
Critique Exercise:	5%
Milestone II:	15%
Project Specification & Milestones (v.3):	5%
Final Deliverable:	15%
Final Presentation:	10%

80%

In-Class Participation:

10%

10%

Final Exam (24 hour/Take Home):

10%

10%

100%

Course Project

Information for each of the components of the course project will be made available during the first two weeks of classes. Each component shall be evaluated using the letter grade scheme.

In-Class Participation:

For each class meeting, each student will be given one of three possible marks:

- 0 : absent or did not participate in class at all; did not do preparatory work
- 1 : minimal participation or did not contribute constructively
- 2 : active and constructive participation; did preparatory work

Tabulation: A maximum of 42 marks can be earned. Marks for 21 of the 24 class meetings will be retained. The first class meeting will be excluded. The lowest two participation marks will be excluded (this will include up to two absences). Each student's mark will be totalled and normalized to the 9-point letter scale. A letter grade will be calculated. See the section "The 9-Point Grade Scale".

Final Exam:

The final exam will be held during the final exam period, at a timeslot that will be scheduled by the Registrar's office. The final exam will consist of a small number of long-answer questions. Students will be given 24 hours to complete the exam questions. Students must work individually. Students may use any of the course materials. Answers must be prepared in PDF format and submitted electronically.

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.

7. Required and Supplementary Materials

A list of readings and digital materials will be posted to the course website. Students may require the use of their library privileges to access some of the digital materials.

Additional and supplementary 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 per week. Students are expected to complete the required preparations and to participate in all class meetings.

Attendance:

Each student is expected to complete the required preparations and to participate in all class meetings.

EECS account:

All students in this course **must** have an EECS account. The EECS account is required in order to submit the coursework.

To activate 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, eeecs.yorku.ca, or yorku.ca) to send the email. Otherwise, the email may be eaten by a spam filter
- Include "CSE4461" 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. (See Absences below)

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, please speak to the course director as soon as possible. The participation mark will not be adversely affected by 2 missed classes or fewer. Students may apply to have missed coursework or more than two missed classes justified with the Attending Physician's Statement (APS). The form can be found on the course website.

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. Tests will be 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.

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