

COMP 1270: Computer Usage II

Winter 2014

Course Description

Using advanced tools to create web sites and presenting content effectively. Advanced usage concepts and issues of social import.

Instructor

Al Marshall, E2-482 EITC, 474-8836, amarsh@cs.umanitoba.ca

Office hours will be posted on the course portal. Please check these hours before stopping by as they are subject to change.

Course Portal

<http://www.umanitoba.ca/d2l>

Course resources and news will be available via the course portal. Please check the site regularly.

Prerequisite

There is no prerequisite for this course, but COMP 1260 is recommended. Students are responsible for understanding how this course fits into their chosen plan of study.

Lectures

11:30-12:20 am, M/W/F, E2-105 EITC.

Course Materials

There is no book for this course. Readings from the Internet will be assigned. These readings may include audio and video files in addition to text.

Students are required to purchase or otherwise acquire a first or second generation iClicker device. You are required to bring this iClicker device to every class. Failure to do so may result in a loss of marks.

Evaluation

4 Assignments	20%
3 Reflections:	10%
In-Class iClicker M/C Questions:	25%
Final Exam	45%

You will receive the grades from at least one reflection, one assignment, and one-half of the iClicker questions prior to the VW deadline of Wednesday, March 19, 2014.

Written specifications for assignments and reflections will be provided via the course portal.

Academic Dishonesty

Students are reminded that there are penalties for academic dishonesty. Academic dishonesty includes submitting assignments that are not entirely the student's own work. Complete details of the Faculty of Science's policy on Academic Dishonesty are available here:

<http://umanitoba.ca/faculties/science/undergrad/resources/webdisciplinedocuments.html>.

Course Topics

- The language of technology
- Web site creation using a content management approach
- Adding advanced functionality to a web site including web forms, calendars, photo galleries, videos, and feeds
- Creating web sites for mobile devices
- Aesthetic considerations for web sites
- Markup languages
- Web site alternatives
- Computing security
- Encryption history, asymmetric and symmetric key encryption, encrypting files versus volumes, on-the-fly-encryption, plausible deniability
- File transfer technologies
- Cloud storage technologies and deduplication
- Backup strategies
- Platform considerations and virtualization
- Computing algorithms that changed the world
- Privacy
- Copyright
- History of computing
- Introduction to software development
- Computing as a profession
- Topics related to current events as appropriate

All topics are subject to time constraints. It is likely that a few topics will be covered very lightly or not at all. Class discussion and input may occasionally dictate what topics are covered in class.