HUMBER

Faculty:

GREEN COURSE

Course Outline

Course Name: Usability and Accessibility (HTTP 5301)

Academic Year: 2019-2020

Faculty Availability:

Associate Dean:
Heather Lowry
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Schedule Type Code: LLB

Land Acknowledgement

Humber College is located in Adobigok, known as "Place of the Black Alders" in the Ojibwe Anishinaabe language. It is uniquely situated along GabeKanang Ziibi, the Humber River providing an integral connection for Indigenous peoples between the northern shore of Lake Ontario and the Lake Simcoe Georgian Bay region. In Honouring the Land we are walking in the moccasin tracks of our ancestors and leaving our footprints for the future generations to come.

School	School of Media Studies & Information Technology
Program	Web Development (11491)
Course Name:	Usability and Accessibility (HTTP 5301)
Pre-Requisite(s)	HTTP 5206
Co-Requisite(s)	none
Pre-Requisite(s) for	none
Equates	none
Restrictions	Students enrolled in the Web Development program.
Credit Value	3
Total Course Hours	56

Developed By:	**Prepared By:**	**Approved by**
Bernie Monette	Bernie Monette MEd	Heather Lowry

Course Description

This course will expose students to the purposes and techniques of usability testing and accessibility evaluation. With data derived from properly conducted investigations, students will be able to usefully evaluate Web sites, discuss results based on measured data, and identify changes for improvements.

Course Rationale

During the Web development process, developers have to plan for and assess how their creations will be used in two fundamental ways: Usability — the understanding and evaluation of user goals in interacting with a Web site. Accessibility — the ability of people who have disabilities to use the same Web site. Establishing how easy a Web site is to use and how closely aligned it is to users' goals requires developers to develop; Systematic, rigorous investigations of user interactions with a Web site, interpretation of observed user actions and feedback within a context informed by knowledge of common parameters. Testing, evaluating, and revising are all parts of this course.

Program Outcomes Emphasized in this Course

Web Development (11491)

- Implement a website solution based on a set of business requirements or client specifications.
- Test, troubleshoot and debug software created in the web projects.
- Develop web projects as a leader or member of a web development team.

Course Learning Method(s)

- Action Learning
- Collaborative Learning
- Project Based Learning
- Group or Team Work
- Cooperative Learning

Learning Outcomes

- Justify the importance of usability and accessibility in Web sites.
- Develop and analyze heuristic information.
- Develop a structured and definitive usability assessment.
- Implement WCAG and AODA accessibility guidelines.
- Evaluate relevant usability criteria and results.
- Recognize factors that contribute to usability and accessibility.

Assessment Weighting

Assessment	**Weight**
Written Assessment	
Report	40%
Group Project	35%
Brief	25%
Total	**100%**

Modules of Study

Module	**Course Learning Outcomes**	**Resources**	**Assessments**

Module	Course Learning Outcomes	Resources	Assessments
Usability & Accessibility in the Web Development Process	• justify the importance of usability and accessibility in Web sites. • develop a structured and definitive usability assessment.		• Written Assessment Final report • Written Assessment Reading summaries.
What, When and How of User Experience and Usability testing Research	• develop and analyze heuristic information.		• Written Assessment Reading summaries.
Research Design, Planning and Reporting	• justify the importance of usability and accessibility in Web sites. • recognize factors that contribute to usability and accessibility.		• Written Assessment Final report • Written Assessment Reading summaries.
Researching User Experience I: Task Analysis and user observation.	• evaluate relevant usability criteria and results. • recognize factors that contribute to usability and accessibility.		• Written Assessment Reading summaries. • Written Assessment Test summaries
Researching User Experience II: Eye Tracking and other forms of user testing.	• evaluate relevant usability criteria and results. • recognize factors that contribute to usability and accessibility.		• Written Assessment Test summaries
Researching User Experience III: Heuristic Analysis and Accessibility	• implement WCAG and AODA accessibility guidelines.		• Written Assessment Reading summaries.

Required Resources

As provided by faculty

Supplemental Resources

Faculty will identify additional references during course of study. If student are to be tested on this material it will be noted in class.

Essential Skills

Section	Skills	Measurement	Details
Communication	Reading Writing Listening	Teach and measure	• Working in teams students will have to manage a consensual view of the projects and the results. As a team member they will have work with others to achieve the project goals. • Students will meet with faculty on a weekly basis to report their results. They will also perform usability. tests and report on their findings.
Critical Thinking and Problem-Solving	Analysing Synthesising Evaluating	Teach and measure	• By facing real-life situations students will have to observer, evaluate, and decide on the projects they are working on. • Meetings with faculty and reports describing outcomes will be used.
Information Management	Gathering and managing information Selecting and using appropriate tools and technology for a task or project	Teach and measure	• Usability tests generate a lot of different and varied information. Students will have to sort through that information and develop a consensual and effective set of recommendations. Students will also be expected to insure that their work is accessible to people with disabilities - both in their actual programming and in testing it later on. • Meeting with faculty will allow students to report on their progress. They will also have to write a report on the outcomes of the usability tests. Evaluation of their programming will show how they have adapted to requirements for a accessibility.

Prior Learning Assessment Recognition (PLAR)

PLAR is not available for this course.

Academic Regulations

It is the student's responsibility to be aware of the College Academic Regulations. The Academic Regulations apply to all applicants to Humber and all current students enrolled in any program or course offered by Humber, in any location. Information about academic appeals is found in the Academic Regulations.

Accessible Learning Services

Humber strives to create a welcoming environment for all students where equity, diversity and inclusion are paramount. Accessible Learning Services facilitates equal access for students with disabilities by coordinating academic accommodations and services. Staff in Accessible Learning Services are available by appointment to assess specific needs, provide referrals and arrange appropriate accommodations. If you require academic accommodations, contact:

Accessible Learning Services: http://www.humber.ca/student-life/swac/accessible-learning

North Campus: (416) 675-6622 X5090

Lakeshore Campus: (416) 675-6622 X3331

Academic Integrity

Academic integrity is essentially honesty in all academic endeavors. Academic integrity requires that students avoid all forms of academic misconduct or dishonesty, including plagiarism, cheating on tests or exams or any misrepresentation of academic accomplishment.

Disclaimer

While every effort is made by the professor/faculty to cover all material listed in the outline, the order, content, and/or evaluation may change in the event of special circumstances (e.g. time constraints due to inclement weather, sickness, college closure, technology/equipment problems or changes, etc.). In any such case, students will be given appropriate notification in writing, with approval from the Dean (or designate) of the School.

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