THE UNIVERSITY OF WINNIPEG

APPLIED COMPUTER SCIENCE

Course Number: ACS-2909-050
Course Name: Introduction to Internet Programming
Course Webpage: http://courses.acs.uwinnipeg.ca/2909-050 (Nexus)

Instructor Information

Instructor: Paulo Fernandes
E-mail: p.fernandes@uwinnipeg.ca
Office Hours: Mondays 5:00-6:00 pm via Zoom
Class meeting time: Mondays 6:00-9:00 pm via Zoom

Important Dates

1. First Class: Monday, September 14, 2020
2. Reading Week (no classes):   October 11-17, 2020
3. Midterm Test: Monday, November 2, 2020
4. Final Withdrawal Date w/o academic penalty*:   Tuesday, November 17, 2020
5. Last Class: Monday, December 7, 2020
6. Team Project Due: TBD, Mid-December, 2020
7. University closures: Thanksgiving   Monday, October 12, 2020
                          Remembrance Day   Wednesday, November 11, 2020

*A minimum of 20% of the work on which the final grade is based will be evaluated and available to the student before the voluntary withdrawal date.

Course Objectives / Learning Outcomes

This course provides students with an overview of Internet and World Wide Web programming, development tools, resources, utilities, multimedia, and security issues. Students gain hands-on experience in JavaScript, Rich Internet Applications (RIAs), Web services, Design Patterns and Mobile Application Development.

Remote Learning

All course material will be available on Nexus. Class times are reserved for further discussion and Q&A, with the remaining time for office hours.

Students must be available via Zoom during the lecture.
- Students must display their real/full name
- Use of Video is optional.
- Participants must be muted when not speaking
- Students may interact via chat, voice or gestures

Students can find answers to frequently asked questions related to remote learning here: https://www.uwinnipeg.ca/covid-19/remote-learning-faq.html.

Evaluation Criteria

1. **Midterm (20%)**
   - Midterm will be 60 minutes and there will be a lecture after the exam
   - Midterm will be delivered via Nexus. Students must have video capability and be prepared to present their student ID.
   - Students can use any and all resources available to them including the internet, with the exception of communicating with anyone except the instructor.
   - All work must be entirely the students' own. Collaboration or sharing of work is NOT PERMITTED.

2. **Assignments (40%)**
   - 4 assignments, worth 10% each
   - Due dates will be posted on Nexus
   - Assignments are due at 11:59:59pm CST on their due dates
   - Assignments will be accepted up to 1 day late with a 20% penalty
   - "Late" is determined by when the assignment is received by the marker.
     NO EXCEPTIONS, exemptions or special consideration without medical certificate.

3. **Final Team Project (40%)**
   Instead of a final exam, we will have a group programming project where students will be able to choose their own teams of three (3) to build an interactive website that requires the knowledge from the entire course.
   - Teams can be comprised of students from either of the ACS-2909 sections this term
   - Project will be divided into three roles which will contain 1/3 of the total scope of work and every role requires the use of HTML, CSS and JavaScript.
   - Teams will decide internally which team member takes on each role, however teams cannot change the scope of each role.
   - Student will be marked on the work they complete in their own roles, the collective work of the team, as well as private peer reviews from their teammates.

Students are responsible for backing up and protecting their work.

Students with documented disabilities, temporary or chronic medical conditions, requiring academic accommodations for tests/exams (e.g., private space) or during lectures/laboratories (e.g., note-takers) are encouraged to contact Accessibility Services (AS) at 204-786-9771 or accessibilityservices@uwinnipeg.ca to discuss appropriate options. All information about a student's disability or medical condition remains confidential. https://www.uwinnipeg.ca/accessibility-services.

Students may choose not to attend classes or write examinations on holy days of their religion, but they must notify their instructors at least two weeks in advance. Instructors will then provide opportunity for students to make up work examinations without penalty. A list of religious holidays can be found in the 2019-20 Undergraduate Academic Calendar online at http://uwinnipeg.ca/academics/calendar/docs/important-notes.pdf

Final Letter Grade Assignment

Historically, numerical percentages have been converted to letter grades using the following scale. However, instructors can deviate from these values based on pedagogical nuances of a particular class, and final grades are subject to approval by the Department Review Committee.

A+	90 – 100%	B+	75 – 79%	C	60 – 64%
A	85 – 89 %	B	70 – 74%	D	50 – 59%
A-	80 – 84%	C+	65 – 69%	F	below 50%

Text Books / Reading List / Software

We use publicly available online resources for our reading material:
- HTML+CSS https://internetingishard.com/html-and-css/
- JavaScript https://javascript.info

Students are responsible for material covered in class and announcements made in class. We are going to use the following software in class:
- Atom – http://atom.io
- Google Chrome – https://www.google.com/chrome/

Prerequisite Information

- This information can be found in the UW Undergraduate Academic Calendar)
- **Requisite courses:** ACS-1903 or ACS-1905 with a minimum grade of C

Course Topics (tentative)

The following topics will be covered. These are subject to change and adjustments based on the pace of learning and discretion of the instructor.

1. Internet Basics
2. HTML
3. Google Chrome Developer Tools
4. CSS
5. JS Fundamentals
6. Data Types
7. Functions, Objects, Prototypes
8. Prototypes
9. Classes
10. DOM
11. Events and Event Handlers
12. Promises
13. Network Requests
14. Web Sockets
15. Forms
16. Web Workers
17. Geolocation
18. Web Storage

Regulations, Policies, and Academic Integrity

Academic dishonesty is a very serious offense and will be dealt in accordance with the University's policies.

Avoiding Academic Misconduct: Students are encouraged to familiarize themselves with the Academic Regulations and Policies found in the University Academic Calendar at: https://uwinnipeg.ca/academics/calendar/docs/regulationsandpolicies.pdf
Particular attention should be given to subsections 8 (Student Discipline), 9 (Senate Appeals) and 10 (Grade Appeals). Please note, in particular, the subsection of Student Discipline pertaining to plagiarism and other forms of cheating.

Detailed information can be found at the following:

- Academic Misconduct Policy and Procedures: https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-policy.pdf and https://www.uwinnipeg.ca/institutional-analysis/docs/policies/academic-misconduct-procedures.pdf
- UW Library video tutorial "Avoiding Plagiarism" https://www.youtube.com/watch?v=UvFdxRU9a8g

Uploading essays and other assignments to essay vendor or trader sites (filesharing sites that are known providers of essays for use by others who submit them to instructors as their own work) involves "aiding and abetting" plagiarism. Students who do this can be charged with Academic Misconduct.

Non-academic misconduct. Students are expected to conduct themselves in a respectful manner on campus and in the learning environment irrespective of platform being used. Behaviour, communication, or acts that are inconsistent with a number of UW policies could be considered "non-academic" misconduct. More detailed information can be found here:

- Respectful Working and Learning Environment Policy https://www.uwinnipeg.ca/respect/respect-policy.html,
- Acceptable Use of Information Technology Policy https://www.uwinnipeg.ca/institutional-analysis/docs/policies/acceptable-use-of-information-technology-policy.pdf
- Non-Academic Misconduct Policy and Procedures: https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-policy.pdf and https://www.uwinnipeg.ca/institutional-analysis/docs/student-non-academic-misconduct-procedures.pdf.

Copyright and Intellectual Property. Course materials are the property of the instructor who developed them. Examples of such materials are course outlines, assignment descriptions, lecture notes, test questions, and presentation slides—irrespective of format. Students who upload these materials to filesharing sites, or in any other way share these materials with others outside the class without prior permission of the instructor/presenter, are in violation of copyright law and University policy. Students must also seek prior permission of the instructor/presenter before, for example, photographing, recording, or taking screenshots of slides, presentations, lectures, and notes on the board. Students found to be in violation of an instructor's intellectual property rights could face serious consequences pursuant to the Academic Misconduct or Non-Academic Misconduct Policy; such consequences could possibly involve legal sanction under the Copyright Policy https://copyright.uwinnipeg.ca/docs/copyright_policy_2017.pdf

Privacy

Students have rights in relation of the collecting of personal data the University of Winnipeg: https://www.uwinnipeg.ca/privacy/admissions-privacy-notice.html.

More information:

- Zoom and Privacy: https://www.uwinnipeg.ca/privacy/zoom-privacy-notice.html
- Testing/Proctoring: https://www.uwinnipeg.ca/privacy/zoom-test-and-exam-proctoring.html.

Class Cancellation, Correspondence with Students and Withdrawing from Course

When it is necessary to cancel a class due to exceptional circumstances, the course instructor will make every effort to inform students via uwinnipeg email and Nexus.

Students are reminded that they have a responsibility to regularly check their uwinnipeg e-mail addresses to ensure timely receipt of correspondence from the University and/or the course instructor.

Please let course instructor know if you plan on withdrawing from the course. Note that withdrawing before the VW date does not necessarily result in a fee refund.

A permitted or necessary change in mode of delivery may require adjustments to important aspects of course outlines, like class schedule and the number, nature, and weighting of assignments and/or exams.