Course: ICT 420-201
Title: Semantic Web Development

Term: Spring 2022
Credit hours: 3
Meeting days/time/location: Online

Instructor Information
Name: Dr. Christopher Sean Burns
Email: sean.burns@uky.edu
Office building and room number: 327 Little Library Building
Office phone: (859)-218-2296
Office hours: Virtual and By Appointment
Preferred Method of Communication: Use email to set up appointments. I usually respond to emails within 24 hours or the first business day after the weekend or holiday; I do not respond to emails in the evenings or on the weekends. We will use Zoom or Teams to have one on one meetings/office hours.

Course Description
This course introduces students to web development with the goal of designing a website containing structured and semantic data and that adheres to principles of usability, accessibility, and inclusion. By the end of this course, students will acquire skills at planning, developing, organizing, and managing websites in HTML5 and CSS3 and will develop an understanding of basic design principles and project management. Prereq: ICT 320 Information Architecture or instructor approval.

Course Prerequisites
ICT 320 Information Architecture. Major standing in ICT or permission of the instructor.

Required Materials
Computer and the ability and authorization to install software.

Skill and Technology Requirements
Minimum technical requirements for UK courses and suggested hardware, software, and internet connections are available at ITS Student Hardware & Software Guidelines.

Other software required:

- Text editor (not a word processor). Suggested: Atom, https://atom.io/.
- Vector graphics editor. Suggested: Inkscape, https://inkscape.org/en/.
- FTP client. Suggested: FileZilla: https://filezilla-project.org/.
- Git. Required: https://git-scm.com/downloads/. Revision control system.

For technical/account help not related to the course, students can contact Information Technology Services by phone 859-218-HELP (4357) and via the ITS

Student Learning Outcomes

After completing this course, students will be able to:
- explain and implement standard design principles that account for accessibility, usability, and inclusion for audiences of different types;
- understand basic project management and organize work flows;
- read and write HTML5 and CSS3 code;
- connect to a web server and upload, organize, and manage project files; and
- *understand and implement structured and semantic data in web sites.*

Course Details

Tentative Course Schedule

Discussions (25% of final grade) are due weekly and are listed in our Canvas shell.

Major assignments (75% of final grade) and due dates include:

Assignment 1: Site Mockup, due 2/9
Assignment 2: Single Page Website Build, due 3/2
Assignment 3: Two Page Website Build, due 3/30
Assignment 4: Three Page Website Build, due 3/13
Assignment 5: Accessibility Review, due 4/27

Course Activities and Exams

This course is taught as an online course. Each week, students will view lectures, review transcripts on website development, and complete tasks. It is expected that students will devote a considerable amount of time to study the materials. Online discussions will be devoted to troubleshooting and completing weekly tasks.

All assignments, including discussion posts, are graded as completed (100 points) or incomplete (0 points). If an assignment is submitted and requires additional work, it will be marked as incomplete and the student will have one week to resubmit for a complete. The final grade is calculated based on the proportion of completed work out of total work and weighted per assignment type. Due date extensions are negotiable upon request.

The grading process described above pertains to all three assignment types. These include discussion assignments, major assignments, and the final project. However, since the final project is due near the last day of classes, the project must be submitted on time. Discussion assignments account for 10% of the final grade; major assignments account for 75% of the final grade; and the final project accounts for 15% of the final grade.

Grading Scale

90 – 100% = A
80 – 89% = B
70 – 79% = C
60 – 69% = D
Below 60% = E

Midterm Grades
For undergraduates, midterm grades will be posted in myUK by the deadline established by the University Senate and published in the Academic Calendar. *(http://www.uky.edu/registrar/content/academic-calendar)*

Attendance Policy/Acceptable Documentation
Since this course is taught as a flipped classroom, students may elect not to attend class sessions. However, classroom attendance is suggested if students require additional help or would like to watch additional demonstrations.

Assignment Policies
Assignment Submissions
Students will submit assignments via Canvas or via appointment on Zoom depending on the assignment description and software requirements.

Late Assignments
Late assignments are accepted. Students must reach out to the instructor within one week after the due date to discuss submission times. Until submitted, all work will be marked as incomplete. No work will be accepted after the last day of classes, which is 12/08.

Assignments Due during Prep Week
The Final Project is due on December 7, which is during Prep Week.

Academic Policy Statements
Please review the Senate's Academic Policy Statements.

Academic Offenses (Cheating, Plagiarism, and Falsification or Misuse of Academic Records)
Please review the Rules Regarding Academic Offenses.

Resources
Please see UK's Distance Learning Library Services, Tutoring and Coaching Resources, proctoring information, etc.

Diversity, Equity, and Inclusion
This course and instructor honor the University's statement on diversity, equity, and inclusion. To read this statement, see Syllabus Statement on Diversity, Equity, and Inclusion (DEI).

Other Student Resources
The University offers a variety of resources to students. Visit the University Senate's Resources Available to Students.