Course Outline
FWDP 1000 – Web Development 1

Course Description

This course introduces the BCIT resources and systems used in the program, including the lab environment, policies, and file storage/retrieval. Students will learn the basics of front-end web development, code management, and the tools of web design. Course topics and activities include a review of the web in general, how it works from the internet layer to the application layer, and how to create basic multi-page web sites. Students will register a domain name, secure their own commercial web space and learn to operate basic web services including File transfer (FTP) and admin features. Students will also review the latest versions of HTML and CSS (Cascading Styles Sheets). Learning will focus on web standards as outlined by the World Wide Web Consortium (W3C), hand coding HTML and use of CSS to control overall hierarchy structure, functionality, layout and appearance of websites while creating modern, standards compliant, semantic and accessible markup for a web site. The coding process from design mock-up to publishing a web site to the public internet will be covered.

Course Learning Outcomes

Upon successful completion, the student will be able to:

- Comfortably use BCIT systems relevant for the program

- Understand and secure domain names

- Secure web hosting and web servers for publishing web sites

- Explain how content is published and distributed on the web

- Connect and setup FTP for publishing content to the web

- Setup a basic work environment for developing static websites

- Write modern W3C standards compliant HTML

- Write accessible code to support use of web content by users of various abilities

- Style web sites using the latest version of CSS

- Create mobile first layouts with CSS

- Create small multi-page web sites.

Course Schedule

Day 1	Day 2
- Course Introduction - Introduction to the Web - Domain Names - Introduction to HTML - Intro to Git - Assignment 1	- Git Practice - More HTML elements - HTML Class attribute - Introduction to CSS - Assignment 2
Day 3	**Day 4**
- Intro to GitHub - CSS Box Model - Browser Developer Tools - Mobile first CSS - Normalize.css - CSS Pseudo Classes - Assignment 3	- Git Practice - Organizing CSS - Responsive Design - Media Queries - Flexbox - Assignment 4
Day 5	**Day 6**
- Git Practice - HTML Forms - Custom Google Fonts - Lab Time for Project 1	- Git Practice - Styling Best Practices - Introduction to FTP - Pointing a Domain - SSL Certificates - Lab Time for Project 1
Day 7	**Day 8**
- CSS Floats - CSS Pseudo Elements - CSS Positioning - Assignment 5	- CSS Grid - Assignment 6
Day 9	**Day 10**
- Menu Toggles - Accessibility - Lab time for Project 2	- SEO Basics - Favicons - Lab time for Project 2

Course Evaluation

Assignment 1	10%	Minimum passing grade is 65%.
Assignment 2	10%	
Assignment 3	10%	
Assignment 4	10%	
Assignment 5	10%	
Assignment 6	10%	
Project 1 (Landing Page)	15%	
Project 2 (Country Website)	25%	