Intro to Web Programming using PHP

Semester: **Winter 2025**

Course Information

Course: COMP	**Course Code:** 1006
Course Delivery Mode: Hybrid	

Instructor Information

Professor's Name:	Jeremy McCulley	**Email:**	Jeremy.mcculley@georgiancollege.ca
Office Hours:	By appointment only	**Classroom:**	BA K324
Phone:	N/A	**Class Times:**	8am – 10:50am

General Information

Course Description:	How do we build simple, functional web applications to store and display dynamic data? What steps do we take to ensure these are secure? What fundamentals are needed to be able to tackle basic client requirements for a working site? How do we leverage existing tools to extend the functionality of our sites? This course uses the open-source LAMP Stack (Linux, Apache, MySQL, PHP) to introduce the core concepts of web application development. Its principles will be extended in later courses that examine more sophisticated server-side technologies.
Course Resources:	Lesson code and online resources will be posted as needed.

Learning Outcomes:	1. Utilize a variety of basic programming structures (variables, loops, functions etc. in a popular scripting environment on a web server; 2. Create scripts that dynamically generate web pages containing valid HTML (Hypertext Markup Language) clearly separating structure, presentation, and behavior in the web browser; 3. Develop scripts that validate form input on the server; 4. Design, program, and implement web pages that interact with web-enabled databases performing simple CRUD (Create, Read, Update, Delete) operations; 5. Implement security and file management in a web application; 6. Deploy program to production web server;

Evaluation

Type		Learning Outcome	Marks
1	Assignment 1	Loops & Create function	15%
2	Assignment 2	Validation, CRUD functions	15%
3	Project	CRUD functions, creating dynamic content	30%
4	Exam 1	Exam 1 will be based only on the content that has been delivered.	20%
5	Exam 2	Exam 2 will be based only on the content that has been delivered.	20%
Total			100%

Schedule of Activities

Week	Content/Topic	Assessment/Activities	Due
Jan 10	Introduction to PHP		
Jan 17	Database connection, and capturing data	Assignment 1	
Jan 24	Form Validation		
Jan 31	Introduction to CRUD: Create & Read		Assignment 1

Feb 7	CRUD continued: Create, Read & Update		
Feb 14	CRUD continued: Create, Read, Update & Delete	Project	
Feb 21	Working with files		
Mar 7	Exam 1	Exam	Exam
Mar 14	Templates & Error Handling	Assignment 2	
Mar 21	Authentication One		
Mar 28	Authentication Two		Assignment 2
Apr 4	Semester Review		Project
Apr 11	Exam 2	Exam	Exam

The sequence and content of this syllabus may change due to unanticipated opportunities or challenges, or to accommodate the learning styles of the students.

Additional Information

Late Work

All assignments are planned and scheduled to provide adequate completion time. Help is often available. Assignments must be submitted by 11:59 pm on their due dates. Late submissions will receive a grade reduction of 20% per calendar day past the due date. Requests for adjustments can be made but should be made at least one week in advance and must be approved by the instructor. Failure to do so will result in a mark of zero unless an illness / emergency can be proven with appropriate documentation at no cost to the College. There are no make-up assignments, nor can late assignments be submitted for grades at the end of the term.

Missed Tests

Tests and exams must be written at the time scheduled. Only documented medical/family emergencies or conflicting religious observance schedules are grounds for special consideration. Requests for an adjustment to a prescribed exam or test date must be made before the exam or test date.

Important Links for Students

Academic Rights and Responsibilities

Academic Honesty

Appeal Process