



Web Developer Professional Work-Study – Program Outline

Brief Program Description

Front-end design focuses on human-centred design to produce high – impact websites. Tamwood International College Web Developer Professional Work-Study Program prepares learners with skills and knowledge required to start a career as front end web developers. Learners gain skills in coding interactive client facing websites through HTML, CSS, JavaScript, and PHP. By using content management system (CMS), such as WordPress, learners will expedite a design using templates and plugins, but also adapt webpages using other tools learned from this program.

The courses are provided with a variety of activities through classroom demonstrations, observations, individual practice and group works. The co-op placement after the foundations of training, allows learners to apply the knowledge and skills gained in class to the real-world industry.

With the foundations of training and co-op work experience, learners will not only learn how coding skills, but also agile web development practices can be applied to solve real-world problems in order to get success in their professional career.

Career Occupation

Front-end Developer and General Web Developer Positions

Admission Requirements

- Minimum 19 years of age prior to the start of the study period or graduation from grade 12
- An in-person or virtual (skype) interview
- English requirements for international students:
 - TOEFL iBT score 46 or higher
 - IELTS Academic score 5.5 or higher
 - Cambridge exam equivalency: Cambridge FCE
 - Demonstrate level 5 English with Tamwood’s online test and interview
 - Tamwood Language Centre’s level 5 is presented
 - Successful completion of Tamwood Language Centre EAP 193

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Learning Objectives

Upon completion of this program successful, learners will have reliably demonstrated the ability to:

- Apply the fundamentals of web development skills to build responsive web applications through HTML and CSS
- Write well-structured, semantic mark-up with an eye for accessibility and search engine optimization (SEO)
- Analyze and customize JavaScript code
- Code and deploy basic and intermediate JavaScript, jQuery, and AJAX programs
- Identify PHP architecture, usage of services and apply PHP concept to develop frontend application supported by backend web servers
- Create and deploy personal portfolio website by using CMS – Wordpress and coding languages, such as HTML, CSS, and Javascripts
- Create and edit content, add functionality, and select custom templates and themes through Wordpress

Method(s) of Evaluation

Throughout the program, learners will be evaluated through the following:

- Lectures
- In class exercises / Case studies
- Demonstrations
- Presentations
- Individual Assignments/Projects/portfolios
- Group Projects

Completion Requirements

In order to graduate from the program with the skills and competencies work as a Front End Web Developer, learners must meet Tamwood's attendance requirement and complete all assigned projects to the satisfaction of the criteria set out by each course in the program.

Program Duration

960 hours, 48 weeks

Homework Hours

120 hours

Delivery Method(s)

In-class instruction

Required course materials

Each learner will be required to bring a laptop (PC or Mac) with at least 8GB of RAM, 256GB storage and a 1.8 GHz 64-bit processor. Additional materials listed in each course outline.



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Program Organization

Course Name	Hours
Fundamentals of Front End Web Development & HTML	80
Fundamentals of CSS, Preprocessors, Frameworks & Version Control Systems	80
JavaScript for Web Developers 1	80
JavaScript for Web Developers 2	80
Introduction to Back-End Web Development: PHP	80
Introduction to Content Management Systems with Wordpress	80
Co-op	480
TOTAL	960