



The Web Application Development Diploma of Western British Columbia Polytechnic College is designed to provide a foundational understanding and practical skills of web application development and support students to prepare for coming careers in the modern IT industry.

The objective is to instruct students to learn a vast array of basic knowledge of web application development and hands-on skills and tools, including programming languages, web developments, mobile developments, cloud developments and so on.

The program focuses on developing the professional knowledge and skills required to develop successful careers in web-related industries as developers.

Program Objectives

The Web Application Development program provides students with :

- A solid knowledge of computer systems and web applications development.
- Professional skills in high demand by employers including communication and software project management.
- Practical skills to develop basic types of software applications.
- Learn how to prepare for professional development and career as software developers.

Methods of Evaluation

- The evaluation of the students' course works is based on the course outline and assessed by instructors.
- In addition, students are required to complete 300 hours of co-op program.

Graduation Requirements

Students have successfully earned 62 credits for the whole program including both coursework and co-op program.

Career Opportunities

- Web Development Assistant
- Junior Web Content Editor
- UI/UX Assistant
- Digital Production Assistant
- Web Tester
- Web Support Technician

Diploma Program

Total program hours: 930 hours
Full-time program length: 46.5 weeks
(Holidays and professional days are excluded)
Program content is subject to change

Domestic Program Fees

Tuition:	\$16,000
Books:	\$1,337
Registration fee:	\$200
Material fee:	\$300
Application fee:	\$100
Assessment fee:	\$100
Taxes:	\$82
Total:	\$18,119

International Program Fees

Tuition:	\$18,000
Books:	\$1,337
Registration fee:	\$500
Material fee:	\$300
Application fee:	\$200
Assessment fee:	\$250
Taxes:	\$82
Total:	\$20,669

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Delivery Method

X In-Class Instruction

Contact us:
Email: admin@wbcpcollege.ca
Phone: 778-869-9923
Website: www.wbcpcollege.ca





Create		Educate		Apply
Admission Requirements		Code	Course Name	Hours
<ol style="list-style-type: none">1. Aged at least 19 years of age.2. Completion of Secondary Education (12 years, or equivalent) or mature student status, or postsecondary transfer.3. Domestic student shall show the completion of grade 9-12, including English 12 with a minimum grade of C or higher from accredited institution.4. International students must attend the Western British Columbia Polytechnic College Entrance Meeting AND provide one of the following:<ul style="list-style-type: none">• CELPIP: 6 overall with a minimum of Listening 6, Speaking 6, Reading 5, and Writing 5• IELTS: 5.5 overall with a minimum score of 5 in each section• TOEFL: 158 (computer-based test), TOEFL 59 (internet-based test)		SD 2300	Python Programming Language <ul style="list-style-type: none">• Functional programming and object-oriented programming in Python language	22.5
		GMGT 1500	Communication Strategies <ul style="list-style-type: none">• Self-awareness strategies• Active listening strategies	45
		GMGT 1700	Career and Professional Development	22.5
		SD 3100	RESTful API and Backend Development <ul style="list-style-type: none">• RESTful API between frontend and backend• Backend server in NodeJS with MongoDB	45
		SD 3200	Web Frontend Development <ul style="list-style-type: none">• Foundation skills of HTML/CSS/Javascript• RESTful API from frontend to interact with backend	45
		SD 3300	Advanced Web Development <ul style="list-style-type: none">• React framework to build frontend application	45
		SD 3400	Android Frontend Development <ul style="list-style-type: none">• Foundation skills of Android application	45
		SD 3500	iOS Frontend Development <ul style="list-style-type: none">• Use SwiftUI to build iOS application	45
Course Information				
Code	Course Name	Hours		
SD 1100	Introduction to Web application Development <ul style="list-style-type: none">• Web application development principles• Identify and analyze several styles of software architectures	22.5		
SD 1200	Algorithms and Data Structures <ul style="list-style-type: none">• Data types and structure• Analyze algorithms to process data	45		
SD 1300	Operating System <ul style="list-style-type: none">• Foundation knowledge of computer operating systems• Program development in the operating systems	45		
SD 1400	Database Management <ul style="list-style-type: none">• Foundation knowledge of database management• SQL to operate data in the relational database• Basic operations of NoSQL database MongoDB	45		
SD 2100	OOP and Java <ul style="list-style-type: none">• Object-Oriented Programming(OOP)• Software development in Java language and OOP in Java application	45		
SD 2200	C++ Programming Language <ul style="list-style-type: none">• Software development in C++ language and OOP in C++ application	45		
		SD 3600	Web Application on Cloud <ul style="list-style-type: none">• Develop a full-stack web application• Deploy the applications on Cloud	22.5
		SD 4100	Software Engineering and Agile <ul style="list-style-type: none">• Software development LifeCycle• Agile methodology	22.5
		SD 4200	Cloud Application Development <ul style="list-style-type: none">• Deployment and testing process on Cloud• Continuous integration and continuous deployment (CI/CD) on AWS with GitHub	22.5
		CPIP 1100	Industry Placement <ul style="list-style-type: none">• Co-op work placement	300

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Vibrant Economy in Great Vancouver

- Top start-up city as ranked by Startup Compass The Fourth greenest city in the world
- Vancouver is one of the top 10 lowest-risk cities in the world to recruit, employ, and redeploy business
- Vancouver is a magnet for global talent and investment, attracting over half a billion dollars in venture capital every year
- Supportive business environment

• **Economically Strong-** Vancouver boasts one of Canada's most dynamic economies. As the official gateway to the Pacific Rim, this British Columbian city serves as a crucial port and the main western terminus for transcontinental highway and rail networks. Over time, Vancouver has impressively shifted from its primarily resource-oriented economy to a diverse, knowledge-based one, making it the fastest-growing economy in Canada in recent years.

• **Technology and Innovation – Economic** Commission's data, Vancouver is home to about 75,000 out of 100,000 technology professionals employed in British Columbia. Being a prominent emerging tech hub, the city attracts a significant number of tech experts, fostering the establishment and expansion of numerous tech startups. The tech sector in the city has experienced steady annual growth, averaging 6 percent recently. With over ten thousand tech companies choosing Vancouver as their headquarters, the combined revenue of these firms exceeds \$23 billion, significantly contributing to British Columbia's GDP with a total of \$15 billion.

• **Social Diversity-** Social, racial, and ethnic diversity, has led to a vibrant mix of cultures, traditions, customs, languages, landmarks, and both tangible and intangible heritage elements from various parts of the world. Approximately 52% of Vancouver's population comprises racialized individuals, meaning they are part of visible minorities according to the Canadian Census. Moreover, 46% of the city's residents have languages other than English as their mother tongue, reflecting the linguistic diversity that further contributes to its rich cultural tapestry.

Studying at Western British Columbia Polytechnic College, students will experience

Zone Learning

Zone Learning is a cutting-edge approach to experiential education that allows students to apply their academic coursework to real-world startups, projects, and ventures. It's not just about acquiring knowledge; it's about gaining practical experience that will equip you for the demands of the 21st-century workforce. By joining Zone Learning, you're not just becoming part of a community, but you're also contributing to a movement that aims to shape the future.

If you're interested in becoming part of our dynamic and engaged community, there are numerous ways to get involved with Zone Learning, regardless of whether you have an idea for a startup or not.

About Us

Established in 2010, Western British Columbia Polytechnic College has more than 1,000 alumni from over 16 nations across the world.

We attract students around the world who share our vision for positive change. We are committed to embracing challenges and taking action. Through learning and discovery, our students, instructors, and alumni bring their unique perspectives, shaping new ways of doing things and contributing to important conversations. Our focus extends to a wide range of topics, including entrepreneurship, innovation, social development, and environmental change. We are a place where imagination and action meet, and where our members are dedicated to making a real-world impact through their creativity and drive for positive change.

The school is equipped with top-rated professors and sessional lectures to provide students with both academic study and practical industry experiences. Students can get access to our value-adding services such as WBCPC Entrepreneurship Center and Career Development Center.

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