



**George Brown College School of Distance Education
Commercial Web Application Development Certificate
Fact Sheet**

Program Description:

With our Commercial Web Application Development Certificate, acquire the knowledge and skills you need to build web applications that can be easily deployed. Consider the difference between desktop programming and web programming. Learn to use .NET assemblies, the C# (C-sharp) programming language and the integrated development environment of Visual Studio. Focus on data validation, and learn to configure custom errors pages that provide the user with meaningful information when exceptions occur. Develop the ability to manage session state and postback events and to use web services to capture and retrieve data from .NET and SQL databases. Although this certificate has been designed for those entering the web programming field, it would also be valuable for graphic designers wishing to broaden their web design skills.

Program Outcomes:

1. Describe and utilize the basic principles of web application development as they relate to HTML, Visual Studio and the C# programming language.
2. Apply a variety of web development and design controls for data validation using Cascading Style Sheets (CSS) and JavaScript.
3. Apply appropriate programming structures within a web application to achieve the desired output with a user friendly interface.
4. Describe and apply basic data base concepts as they relate to web application data services and management using ADO.NET.
5. Apply standard relational database designs to create a flexible database design, including database Normalization.
6. Apply the SQL programming languages to interact with a database, including using stored procedures.
7. Design, develop and troubleshoot a web application using process and data models.
8. Apply object oriented design principles to create a modern web application.
9. Apply practical application layering (Interface, Data layer and Logic Layer).

Program Details:

Courses	Clock Hours	Course Fees
Foundations of Application Development	42	\$409 (includes \$80 in [non-refundable] materials [online access])
Web Application Development and Design	42	\$409 (includes \$80 in [non-refundable] materials [online access])
Web Application Data Services	42	\$409 (includes \$80 in [non-refundable] materials [online access])
Web Application Development for Commercial Websites	42	\$409 (includes \$80 in [non-refundable] materials [online access])
	Total = 168 hours	Tuition includes: \$4 technology fee that funds the open access computing facilities at the Library Learning Commons. \$21.03 campus service \$20 infrastructure upgrade fee \$80 Material Fee (licensing fees)



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Total Certificate Hours	Total Certificate Fees
168	\$1,636

Program Length:

This is an online course, and registration is offered through continuous intake, meaning registration is open 24 hours a day, 7 days a week throughout the year. You have 120 calendar days from the day you receive the course details to complete the course.

Students have up to 3 years to complete the five courses in the certificate.

Prerequisites:

Applicants must have a secondary school diploma or mature student status. The definition of mature student status is a person 19 years or older who does not have an Ontario Secondary School Diploma. Generally, applicants must be at least 19 years old by the day the course starts.

The courses in this certificate are structured sequentially with prerequisite requirements. We recommend that you complete the courses in the order shown. However, the order in which you complete the course requirements is only restricted by course prerequisites.

Technical Requirements for Blackboard online courses:

If your course requires you to use Blackboard, refer to the George Brown College Blackboard Login & Help Getting Started page for the Preferred System Requirements for Blackboard. You can even run the Browser Checker to see immediately if your browser and operating system are supported by the Blackboard Learn system. After you have registered, your department co-ordinator will send you any additional course details by email.

Refund Policy for Students:

- If your course has been cancelled, you will receive a full refund.
- If you want to withdraw from a course, you must officially withdraw. If you withdraw prior to the day of the first scheduled class, you will receive a full refund less an administrative fee. If you withdraw up to 10 business days (including the first scheduled day of class) after the course start date, you will receive a full refund less 50% of the materials fee and the administrative fee. (Some courses may include materials fees that are non-refundable. Check the applicable web page for your course for complete fee details.) **If you withdraw later than 10 business days (including the first scheduled day of class) after the course start date, you will not receive a refund.**
- Refunds are not given for one-day courses **or** courses of 12 hours or fewer **or** courses that end after fewer than 10 business days (including the first scheduled day of class) unless you officially withdraw at least 10 business days before the start of the course.
- **At this time, refunds can only be made by cheque, regardless of your method of payment.** Ensure that your online student account contains your current address, and allow four weeks for processing and mail delivery of refund cheques. If you ask to have a duplicate cheque printed, you will be charged an administrative fee.



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Sample Refund Calculation:

Class Cancellation	Tuition Paid: \$409 (including material fees) Tuition Refund: \$409
Withdraw Prior to class start	Tuition: \$409 (including material fees) Refund: \$409 - \$80 non-refundable material fees= \$329 Net Tuition Refund= \$329 less new charge for \$20 Administrative Fee Net Total Refund: \$309 (Student retains all materials)
Withdraw up to 10 business days including first day of class	Tuition: \$409 (including material fees) Refund: \$409 - \$80 non-refundable material fees= \$329 Net Tuition Refund= \$329 less new charge for \$20 Administrative Fee Net Total Refund: \$309 (Student retains all materials)
Withdraw later than 10 business days (including the first scheduled day of class) after the course start date	No Refund

Course Completion Rate:

	Completion Rate (Winter 2017)
Foundations of Application Development	100%
Web Application Development and Design	100%
Web Application Data Services	100%
Web Application Development for Commercial Websites	100%

Employment Sector:

Based on the most relevant **National Occupational Classification (NOC)** code, graduates of this certificate might be employed as computer programmers. These professionals write, modify, integrate and test computer code for software applications, data processing applications, operating systems-level software and communications software. Interactive media developers write, modify, integrate and test computer code for Internet and mobile applications, computer-based training software, computer games, film, video and other interactive media. They are employed in computer software development firms, information technology consulting firms, and in information technology units throughout the private and public sectors.

Source: National Occupational Classification System (Canada)

<http://noc.esdc.gc.ca/English/NOC/SearchIndex.aspx?ver=16>
[2174 Computer programmers and interactive media developers](#)