

COMPUTING

PART-TIME STUDIES

BCIT

®



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COURSES

Part-time Studies is course by course registration, pay as you go. Many courses fill quickly after registration opens so register early in order to get a seat. Some courses may require departmental approval before you can register. Please check the course web page for complete details.

PROGRAMS

You can take courses as part of a program that leads to a credential, such as a statement of completion, associate certificate, certificate, or diploma.

PREREQUISITES

All students are responsible for ensuring they have the necessary prerequisites before registering for any course.

The prerequisites for all 'COMP' courses include B.C. High School English and Math at Grade 12 level, or equivalent.

In part-time studies, you do not have to submit documents to prove your knowledge and or qualification.

FEES, REFUNDS, AND WITHDRAWALS

Course fees must be paid in full at the time of registration. The preferred methods of payment is online banking (bill payment) or cash, debit card, cheque, bank draft, or money order for in person registration.

Refund information, including the deadline, will be provided when you register for a course.

To withdraw from the course prior to, or on, the refund deadline, contact Student Information and Enrolment Services at 604.434.1610 to withdraw.

After the refund deadline, you must submit a completed signed Part-time Studies Withdrawal form.

PLAN AHEAD

KEY DATES	WINTER	SPRING / SUMMER	FALL
Term opens for REGISTRATION	Oct 23	Feb 19	May 28
TEXTBOOK available at bookstore	Nov 21	Mar 6	Jul 24
Term START-UP	Jan 9	Apr 10	Sep 11

WAYS TO REGISTER



ONLINE
Register online bcit.ca/pts



BY PHONE
604.434.1610
1.866.434.1610 (toll-free within Canada and US)



IN PERSON
Visit a BCIT campus during our regular office hours
bcit.ca/admission/contacts



BY MAIL
Send your completed signed Part-time Studies Registration Form and a cheque or money order payable to BCIT to:

Part-time Studies Registration
BCIT Student Information and Enrolment Services
3700 Willingdon Avenue
Burnaby, BC V5G 3H2

ADVANCED WEB TECHNOLOGIES

WEB DEVELOPMENT FUNDAMENTALS –STATEMENT OF COMPLETION

bcit.ca/study/programs/webpts

Students with no web coding background will learn to write a series of hands-on web code to develop and manage basic web sites to industry standards. This foundation in web development may be completed in as little as one term (12 weeks) part-time and is a subset of the Applied Web Development associate certificate in Computing Part-time Studies.

Required courses:

COMP 1011	UX/UI Development
COMP 1850	Web Development and Design 1
COMP 1950	Web Development and Design 2
COMP 1956	Creating Web Graphics 1
COMP 2015	Introduction to JavaScript and jQuery

APPLIED WEB DEVELOPMENT –ASSOCIATE CERTIFICATE

bcit.ca/6957acert

This web program teaches students how to hand-code with mark-up tools, model data, analyze and document business processes, define requirements, communicate specifications, and work in teams. Graduates will be able to plan, design, and build websites using industry standards. A variety of technical electives are also available covering current open-source scripting tools.

Required courses: (17.5 credits)

COMP 1630	Relational Database Design and SQL
COMP 1850	Web Development and Design 1*
COMP 1950	Web Development and Design 2
COMP 1956	Creating Web Graphics 1
COMP 2015	Introduction to JavaScript and jQuery
COMP 2831	Business Analysis and Systems Design

Elective courses: (8.5 credits)

COMP 1011	UX/UI Development
COMM 1110	Writing for the Web
COMP 1288	IT Project Management
COMP 1910	3D Simulation Tools
COMP 2052	Android and Mobile Applications Development Tools
COMP 2053	XML for Web Development
COMP 2056	Creating Web Graphics 2
COMP 2251	Website Optimization with Google Analytics
COMP 3015	Introduction to PHP

* Complete COMP 1850 first or have equivalent HTML5 and CSS3 knowledge prior to enrolling in other web courses. If you already have the skills taught in COMP 1850, then contact the department for your options.

WEB AND MOBILE APPLICATION DEVELOPMENT –ASSOCIATE CERTIFICATE

bcit.ca/6465acert

This advanced web program requires completion of the Applied Software Development Associate Certificate prior to starting. A solid understanding of multiple OOP languages, and systems analysis and design are required in order to properly understand web application development.

Required courses: (20.5 credits)

COMP 1950	Web Development and Design 2
COMP 2909	AngularJS
COMP 2912	Node.js Fundamentals
COMP 3617	Android and Mobile Applications in Java
COMP 3912	iOS Application Development
COMP 3913	MEAN Stack Web Application Development
COMP 3973	ASP.NET MVC for Web Applications

Elective courses: (4.5 credits)

COMP 2052	Android and Mobile Application Development Tools
COMP 2053	XML for Web Development
COMP 3053	XML for PHP Developers
COMP 3613	Introduction to Java Web Application Development
COMP 3829	QA and Software Testing
COMP 3917	Mobile Application Development in C#
COMP 4662	MySQL for Data Driven Websites

Financial Assistance

Need assistance funding your studies? Find out if you qualify for a Part-time Studies grant. If you are planning to apply for financial aid, you must first complete and submit a Part-time Program Declaration form. Go to bcit.ca/pts and click on Downloads.

bcit.ca/finaid/

Program Advising

Part-time Studies program advisors can help you become a successful student at BCIT. Book an appointment by calling 604.434.1610 or toll free at 1-866-434-1610 (Canada and United States only), select options 2, 2, 3 and 1 and ask to speak to a Program Advisor.

bcit.ca/advising/

DATA ANALYTICS and BUSINESS INTELLIGENCE

APPLIED COMPUTER INFORMATION SYSTEMS –ASSOCIATE CERTIFICATE

bcit.ca/6992acert

Required courses: (11.0 credits)

COMP 1002	Applied Computer Concepts
COMP 2010	Microsoft Office
COMP 1630	Relational Database Design and SQL

Elective courses: (10.5 credits)

COMM 1103	Introduction to Business and Technical Communication
AND/OR	
COMM 1106	Introduction to Business and Technical Communication (With Language Development Component)
COMP 1255	Applied Sage 50 Accounting
COMP 1288	IT Project Management
COMP 1409	Introduction to Software Development 1
COMP 1850	Web Development and Design 1
COMP 2256	Visual Analytics for Business Intelligence with Tableau
COMP 2361	Microsoft Word Advanced
COMP 2362	Microsoft Excel Advanced

APPLIED DATABASE ADMINISTRATION AND DESIGN –ASSOCIATE CERTIFICATE

bcit.ca/6994acert

This hands-on program teaches how to design and manage medium-to large-scale databases to industry standard. Many of these courses provide preparation for industry certifications.

Required courses: (11.5 credits)

COMP 1630	Relational Database Design and SQL *
COMP 2831	Business Analysis and Systems Design
COMP 3838	Data Warehouse Foundations for Business Intelligence
COMP 3839	Data Quality Improvement

Elective courses: (13.5 credits)

COMP 1288	IT Project Management
COMP 2252	SAP Crystal Reports
COMP 2253	SAP Crystal Reports Advanced
COMP 2256	Visual Analytics for Business Intelligence with Tableau
COMP 3771	PowerShell Scripting
COMP 4670	Oracle 11g Administration Workshop 1
COMP 4671	Oracle 11g Administration Workshop 2
COMP 4677	Microsoft SQL Server 2012 Administration
COMP 4678	Microsoft SQL Server 2012 Development
COMP 4679	Business Intelligence with SSRS, SQL Server Reporting Services
COMP 4680	Business Intelligence with SSIS, SQL Server Integration Services
COMP 4681	Business Intelligence with SSAS, SQL Server Analysis Services

* COMP 1630 must be completed prior to taking any higher-level database courses.

APPLIED DATA ANALYTICS –CERTIFICATE

bcit.ca/5512acert

This hands-on program provides the computer science foundations for data analytics systems. Students learn how to determine data requirements, plan for the entire data life cycle, model data, and use IT tools to mine data for business intelligence and data-driven decision making.

Tier 1 Required courses: (9.5 credits)

COMP 1630	Relational Database Design and SQL *
COMP 2362	Microsoft Excel Advanced
MATH 1060	Statistics for Data Analysis

Tier 2 Required courses: (14.0 credits)

BLAW 3205	Internet and IT Law
COMP 2256	Visual Analytics for Business Intelligence with Tableau
COMP 2831	Business Analysis and Systems Design
COMP 2854	Data Analytics Fundamentals **
COMP 3838	Data Warehouse Foundations for Business Intelligence

Tier 3 Required courses: (12.5 credits)

BLAW 3704	Applied IT Security Fundamentals
COMP 3839	Data Quality Improvement
COMP 3840	Introduction to Big Data and Hadoop
COMP 4254	Advanced Topics in Data Analytics
MATH 3060	Advanced Statistical Techniques for Data Analytics

Elective courses: (9.0 credits)

COMM 1007	Technical Writing Style
COMP 1011	UX/UI Development
COMP 1288	IT Project Management
COMP 1850	Web Development and Design 1
COMP 2053	XML for Web Development
COMP 2251	Website Optimization with Google Analytics
COMP 2252	SAP Crystal Reports
COMP 2253	SAP Crystal Reports Advanced
COMP 4678	Microsoft SQL Server 2012 Development
COMP 4679	Business Intelligence with SSRS, SQL Server Reporting Services
COMP 4680	Business Intelligence with SSIS, SQL Server Integration Services
COMP 4681	Business Intelligence with SSAS, SQL Server Analysis Services
HLED 7250	Leading Performance Measurement and Management
HELD 7260	Leadership Issues in Evidence-based Decision Making

* COMP 1630 must be completed prior to taking any higher-level database courses.

** COMP 1630, COMP 2362, and MATH 1060 must be completed or have equivalent knowledge prior to COMP 2854.

MICROSOFT OFFICE and APPLICATION TRAINING

APPLIED COMPUTER APPLICATIONS –ASSOCIATE CERTIFICATE

bcit.ca/5525acert

Become an expert PC user with MS Windows and MS Office applications. This program is designed for new and existing computer users. Obtain expert skill levels in desktop computing and understand how to build websites.

Required courses: (15.0 credits)

COMP 1002 Applied Computer Concepts

COMP 1850 Web Development and Design 1

COMP 2364 Microsoft Excel

COMP 2369 Microsoft Word

COMP 2374 Microsoft Access

Elective courses: (7.0 credits)

COMM 1103 Introduction to Business and Technical Communication

OR

COMM 1106 Introduction to Business and Technical Communication (with Language Development Component)

COMP 1255 Applied Sage 50 Accounting

COMP 2252 SAP Crystal Reports

COMP 2253 SAP Crystal Reports Advanced

COMP 2256 Visual Analytics for Business Intelligence with Tableau

COMP 2375 Advanced Microsoft Access Development

COMP 2384 Microsoft PowerPoint

COMPUTER APPLICATION COURSES AND WORKSHOPS

If you already have an understanding of PCs and Windows file management, you can build your skills with the following Microsoft Office 2013 workshops.

One-day non-credit courses:

COMP 0261 MS Excel Workshop 1

COMP 0264 MS Excel Workshop 2

COMP 0269 MS Excel Workshop 3

COMP 0367 MS Word Styles, Templates, and Mail Merge

COMP 0368 MS Word Reports and Collaboration

COMP 0371 Introduction to Database Systems with MS Access

COMP 0372 Data Analysis with MS Access

Entry-level fundamental courses:

COMP 1361 Word Fundamentals

COMP 1362 Excel Spreadsheet Fundamentals

COMP 2010 Microsoft Office

Expert-level courses:

COMP 2361 Microsoft Word Advanced

COMP 2362 Microsoft Excel Advanced

NETWORK and SECURITY

APPLIED NETWORK ADMINISTRATION AND DESIGN –ASSOCIATE CERTIFICATE

bcit.ca/5515acert

This hands-on program teaches the design, set-up, and administration of local- and wide-area networks. Students who already have some business and IT experience will learn data communication and network theory plus the design, installation, and administration of multi-platform networks. Many of these courses provide preparation for industry certifications.

Required courses: (22.5 credits)

COMP 1288 IT Project Management

COMP 3521 Enterprise Network Design

COMP 2766 Introduction to Linux

COMP 3700 MS Windows Server Administration

COMP 3704 Applied IT Security Fundamentals

COMP 4704 Applied Network Security

COMP 4912 Applied Virtual Networks

Elective courses: (6.0 credits)

COMP 1045 CompTIA A+ Certification Preparation

COMP 3701 Active Directory Infrastructure

COMP 3771 PowerShell Scripting

COMP 4913 Cloud Computing with Amazon Web Services

COMPTIA A+ HARDWARE TECHNICIAN

bcit.ca/computing/pts

CompTIA A+ is a computer-industry certification that is recognized around the world. The purpose of this course is to prepare students for the A+ industry certification. The CompTIA certification process is separate from BCIT and requires that an exam be written through a third party. Please search "CompTIA" on-line for details about A+ as well as the exam process.

Course offered this term:

COMP 1045 CompTIA A+ Certification Preparation



Microsoft Office Specialist (MOS) is one of the leading IT certifications internationally. COMP courses in MS Office 2016 are taught to Microsoft industry standards. Receiving MOS demonstrates your ability to use these tools productively and provides recognition of advanced skills in MS Word and MS Excel.

PROGRAMMING LANGUAGES and SOFTWARE DEVELOPMENT

All programming courses begin with Introduction to Software Development 1 (COMP 1409) followed by Introduction to Software Development 2 (COMP 1451). These are the foundations in object-oriented programming (OOP) and are the prerequisites for all other intermediate-level programming languages. If you are serious about becoming an application programmer, you should understand multiple programming languages and environments.

APPLIED SOFTWARE DEVELOPMENT –ASSOCIATE CERTIFICATE

bcit.ca/6958acert

Learn to design, build, and deploy software applications. This program is aimed at three audiences: students who want to learn programming, existing programmers who want to learn new languages, and candidates for advanced programming credentials. Applied Software Development is the first step towards the CST/PTS diploma and degree, as well as the prerequisite for the three higher-level credentials: Web and Mobile Application Development, .NET Application Software Development, and Advanced Java Web Development.

Required courses: (10.0 credits)

COMP 1409	Introduction to Software Development 1 *
COMP 1451	Introduction to Software Development 2 *
COMP 2831	Business Analysis and Systems Design

Elective courses: (15.0 credits)

After COMP 1451, move onto any intermediate-level COMP 2600-series programming course:

COMP 2613	Java Application Development **
COMP 2614	.NET Windows Application Development in C# **
COMP 2617	C++ Application Development 1 **
COMP 2618	C++ Application Development 2 **
COMP 2717	C Programming 2 **
COMP 2833	Agile Development with Scrum
COMP 3912	iOS Application Development for iPhone and iPad

* Complete COMP 1409 prior to COMP 1451, not concurrently.

** Do not attempt any of these courses simultaneously, only one per term.

AGILE DEVELOPMENT –ASSOCIATE CERTIFICATE

bcit.ca/5530acert

Agile development is all about meeting changing needs through adaptive planning, incremental product creation, and short IT project delivery cycles. These skills may also be applied to other aspects of product development and consulting.

Required courses:

COMP 1630	Relational Database Design and SQL
COMP 2831	Business Analysis and Systems Design
COMP 2833	Agile Development with Scrum
COMP 2834	Agile Business Systems Analysis
COMP 2835	Agile Project Leadership

ADVANCED JAVA DEVELOPMENT –ASSOCIATE CERTIFICATE

bcit.ca/6445acert

Advanced Java Development is a second-level credential that is built on top of our Applied Software Development Associate Certificate. Graduates of this program will be able to build and deploy Java web-based and large-scale enterprise applications.

Required courses: (21.0 credits)

COMP 2613	Java Application Development
COMP 3613	Introduction to Java Web Application Design
COMP 3617	Android and Mobile Applications in Java
COMP 3831	Object Oriented Analysis and Design
COMP 4613	Advanced Java Web Development
COMP 4656	Java Enterprise Edition Programming

Elective courses: (4.5 credits)

COMP 1011	UX/UI Development
COMP 1288	IT Project Management
COMP 2053	XML for Web Development
COMP 2909	AngularJS
COMP 2912	Node.js Fundamentals
COMP 3829	Quality Assurance and Software Testing
COMP 3913	MEAN Stack Web Application Development

ADVANCED .NET DEVELOPMENT –ASSOCIATE CERTIFICATE

bcit.ca/6810acert

Microsoft .NET is a variety of tools and technologies to build software applications with less work, making use of a consistent programming model. The .NET Framework supports the interoperability of multiple programming languages using .NET Library components and coded solutions using Common Runtime Languages to execute programs specifically for .NET. Students must have the ability to understand OOP languages before starting these courses.

Required courses: (17.0 credits)

COMP 2614	.NET Windows Application Development in C#
COMP 3608	.NET User Interface Development with XAML
COMP 3618	Advanced .NET Application Development in C#
COMP 3831	Object Oriented Analysis and Design
COMP 3973	ASP.NET MVC for Web Applications

Elective courses: (9.0 credits)

COMP 1288	IT Project Management
COMP 2053	XML For Web Development
COMP 2833	Agile Development with Scrum
COMP 2909	AngularJS
COMP 2912	Node.js Fundamentals
COMP 3913	MEAN Stack Web Application Development
COMP 3974	Cloud Application Development with MS Azure

COMPUTER SYSTEMS—CST COMPUTER SYSTEMS CERTIFICATE (CSC) bcit.ca/5500cert

This program provides students with a solid foundation in Information Systems (IS), Information Technology (IT) and multiple programming languages. Students learn industry standards in systems design and problem analysis, object oriented software development, relational database design, website development, business and communication skills, plus mathematics.

The CSC is 60 credits and is equivalent to the 1st year of the full-time CST Diploma. Graduates of the CSC may apply for Advanced Placement to finish Term 3 and Term 4 in the full-time CST Diploma. Advanced Placement seats are very limited, entry is competitive and there are no guarantees that students will be accepted into full-time CST.

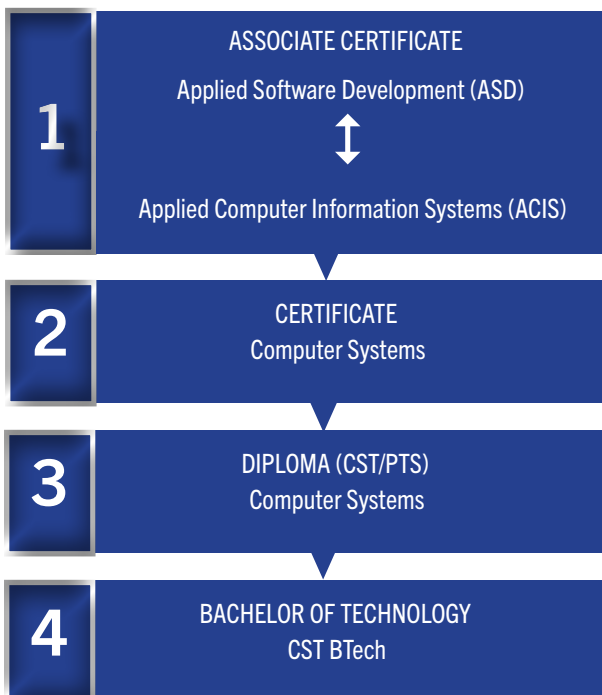
COMPUTER SYSTEMS—CST DIPLOMA OF TECHNOLOGY (CST/PTS) bcit.ca/5500pdipit

The CST/PTS Diploma completion piece is 60 credits and is built on top of the ASD/ACIS/CSC (60 credits) for a grand total of 120 credits. This credential covers topics from the second year of the full-time CST Diploma. Students who are already accomplished object-oriented programmers now focus on LAN theory and WAN network design, network administration, network security, operating systems, algorithm and object oriented analysis and design.

You may choose from a wide variety of electives in web and mobile development, additional programming languages, advanced database and business intelligence. Students who complete the CST diploma with 120 credits may then apply for the bachelor's degree which is 60 credits (for a grand total of 180 total credits) on either a full- or part-time basis.



COMPUTER SYSTEMS TECHNOLOGY Laddered Credential PART-TIME STUDIES



BACHELOR OF TECHNOLOGY

COMPUTER SYSTEMS—BACHELOR OF TECHNOLOGY

bcit.ca/study/programs/cstbtechpts **604.432.8644**

The Bachelor of Technology in Computer Systems is built on top of the CST Diploma of Technology and may be completed in full-time or part-time formats. The CST BTech program offers students several popular specialization areas including: database, human computer interface, network security administration, network security applications development and wireless and mobile applications development. The Games Development specialization is offered full time. However, a few courses may be offered to part-time CST BTech students during the daytime in the fall and winter terms. Visit our web page for more information.

Courses offered this term:

COMP 2653	CST Foundations 1
COMP 3653	CST Foundations 2
COMP 7021	Graphics in User Interface Design
COMP 7036	Applied Research Methods in Software Development
COMP 7401	Advanced Topics in Programming Methodology (Cryptography)
COMP 7615	Selected Topics in Computer Systems (Data Mining)
COMP 8005	Network & Security Applications Development
COMP 8006	Network Security Administration 2
COMP 8031	Wireless & Mobile Applications Development 2
COMP 8045	Major Project 1
COMP 8046	Major Project 2
COMP 8081	Management Issues in Software Engineering
COMP 8571	Selected Topics in Database



FORENSIC INVESTIGATION COMPUTER CRIME

bcit.ca/cas/forensics **raymond_yu@bcit.ca**

Computer Crime Studies is a specialized program created to meet the increasing demand for Computer Forensics investigation. Students who apply should meet the program's admission requirements and have a proven background or education in IT. Please refer to the Admission Requirements section for further details.

Computer Forensics

This proliferation of crime involving computers has led to a need for specialists trained in the field of computer forensics, the scientific analysis of communications and data on computer storage devices. Specialists in computer forensics unite technical expertise with investigative skills and legal knowledge, a combination which is essential for computer crime investigations.

ADVANCED SPECIALITY CERTIFICATE

bcit.ca/study/programs/526cascert **raymond_yu@bcit.ca**

The objective of the Advanced Specialty Certificate (ASC) is to enable current Computer Crime practitioners to enhance their theoretical knowledge base and investigative capabilities, as well as to provide those looking to enter this field with a thorough background. Students gain a clear understanding of the principles, procedures, technologies and the legal ramifications of investigator's work. This certificate is also suitable for any student who already has a bachelor's degree but wants to learn more about computer crimes.

FORENSIC INVESTIGATION—BACHELOR OF TECHNOLOGY

bcit.ca/study/programs/845cbtech **raymond_yu@bcit.ca**

The Bachelor of Technology in Forensic Investigation program allows students to choose their areas of study to specialize in. The Computer Crime Studies option combines core courses in liberal studies, management, legal and investigative courses along with specialized courses in Computer Crime. The core program of study, along with a variety of electives, selected topics courses and a directed-studies graduation project allow the students the flexibility to meet their educational goals and personal interests

Courses offered this term:

FSCT 7131	Principles of Incident Response and Disaster Recovery
FSCT 7510	Digital Forensics Foundation
FSCT 8010	Forensic Behavioural Science
FSCT 8561	Security Applications

CAREERS IN COMPUTER FORENSICS

The demand for skilled investigators is increasing rapidly. Opportunities for employment exist in law enforcement agencies like municipal police departments and federal agencies. As well, private corporations seek computer security specialists to maintain the integrity of their infrastructures.