



# Bachelor of Science (B.Sc.) in Applied Computer Science



# Welcome (back) to BCIT

You have made the exciting decision to pursue your education at BCIT and we are thrilled to have you.

BCIT has many free services available for all students on all campuses to help students succeed.

Welcome to the BCIT Community!



The British Columbia Institute of Technology acknowledges that our campuses are located on the unceded traditional territories of the Coast Salish Nations of **Skwxwú7mesh** [Squamish], **səlilwətaʔ** [Tsleil-Waututh], and **xwməθkwəyəm** [Musqueam].

# BScACS Contacts

## **Maryam Tanha**

*Program Head – Student Success*

Burnaby Campus SW2-321

**Email:** [mtanha@bcit.ca](mailto:mtanha@bcit.ca)

*Meetings by appointment via Zoom. Contact Maryam for advice or help with academic issues.*

## **Mirela Gutica**

*Program Head – Curriculum*

Burnaby Campus SW2-127

**Email:** [Mirela\\_Gutica@bcit.ca](mailto:Mirela_Gutica@bcit.ca)

## **Michal Dziubek**

*Program Coordinator, CST Bachelor of Technology*

**Email:** [compbsc@bcit.ca](mailto:compbsc@bcit.ca)

*Contact Michal for help with administrative requests.*

# Delivery – BSc Full-time

Fall 2023 – In-person

- Lectures and labs will take place in-person, and you will collaborate with your classmates and engage with your instructor in real time.
- Attendance is mandatory.

# Program Structure

Full-time intake: two sets every September, one set every January

Term 5: September 5, 2023 - December 8, 2023

Term 6: January 3, 2023 - April 17, 2023 (**no Spring Break**)

Term 7: September 2024 - December 2024  
Exact start and end dates will be finalized later.

Term 8: January 2025 to April 2025 (**no Spring Break**)  
Exact start and end dates will be finalized later.

# Curriculum

- Fewer classes and less class time than CST diploma, but the technical material is much more in depth.
  
- Courses are organized into:
  - Core Courses (29 credits)
  - Specialized Courses (15 credits)
  - Major Project courses (6 credits)
  - Required Core General Education Courses (6 credits)
  - General Education Electives (9 credits)
  - Co-op work term courses (we will have an info session in Oct or Nov 2023)

**Total of 65 credits.**



# Curriculum – Technical

## Core Courses:

COMP 7003, COMP 7012, COMP 7035, COMP 8042,  
COMP 7082, COMP 8082, COMP 8085, MATH 7908,  
MATH 7808 (total of 9 courses)

## Two Specializations (aka Options):

Network Security Applications Development – 5 courses  
Games Development – 5 courses

A minimum passing grade of **60%** is required for all  
COMP 7000 and 8000 level courses.

# Major Project

- COMP 8800 – Major Project 1 (3 credits)
- COMP 8900 – Major Project 2 (3 credits)
- Individual project (no groups).

# Curriculum – Network Security

- Network Security Applications Development
  - Option head: D’Arcy Smith (Darcy\_D\_Smith@bcit.ca)

Term	Code	Number	Course Name	Credits	Prerequisites
5	COMP	7003	<a href="#">Introduction to Information and Network Security</a>	3	meet BSc entry requirements
5	COMP	7005	<a href="#">Computer Networks and Protocols</a>	3	meet BSc entry requirements
5	COMP	7035	<a href="#">Operating Systems</a>	3	meet BSc entry requirements
5	COMP	7082	<a href="#">Software Engineering</a>	3	meet BSc entry requirements
5	MATH	7808	<a href="#">Calculus for Computing</a>	4	meet BSc entry requirements
6	COMP	8003	<a href="#">Network Security Administration</a>	3	COMP 7003
6	COMP	8042	<a href="#">Advanced Algorithms and Data Structures Design and Analysis</a>	3	MATH 7908 <sup>†</sup> and MATH 7808 <sup>†</sup> († may be taken concurrently)
6	COMP	8082	<a href="#">Project Management</a>	3	COMP 7082
6	LIBS	7001	<a href="#">Critical Reading and Writing</a>	3	meet BSc entry requirements
6	MATH	7908	<a href="#">Linear Algebra and Applications for Computing</a>	4	meet BSc entry requirements
7	COMP	7402	<a href="#">Topics in Computer Programming - Cryptology</a>	3	meet BSc entry requirements
7	COMP	8005	<a href="#">Network and Security Applications Development</a>	3	COMP 7003 and COMP 7005 and COMP 8800 <sup>†</sup> († may be taken concurrently)
7	COMP	8085	<a href="#">Artificial Intelligence</a>	3	COMP 8042
7	COMP	8800	<a href="#">Major Project 1</a>	3	COMP 8082 and LIBS 7001 and at least one 8000 level specialty course.
7	LIBS	7002	<a href="#">Applied Ethics</a>	3	meet BSc entry requirements
8	COMP	7012	<a href="#">Interaction Design</a>	3	meet BSc entry requirements
8	COMP	8505	<a href="#">Special Topics in Network and Security Development</a>	3	COMP 7402 and COMP 8005
8	COMP	8900	<a href="#">Major Project 2</a>	3	COMP 8800
7		XXXX	General Education Elective	3	
8		XXXX	General Education Elective	6	

# Curriculum – Games Development

## ■ Games Development

➤ Option head: Borna Nouredin ([borna\\_nouredin@bcit.ca](mailto:borna_nouredin@bcit.ca))

Term	Code	Number	Course Name	Credits	Prerequisites
5	COMP	7035	<a href="#">Operating Systems</a>	3	meet BSc entry requirements
5	COMP	7051	<a href="#">Introduction to Computer Games Development</a>	3	meet BSc entry requirements
5	COMP	7082	<a href="#">Software Engineering</a>	3	meet BSc entry requirements
5	COMP	7903	<a href="#">Games Design Fundamentals</a>	3	meet BSc entry requirements
5	MATH	7808	<a href="#">Calculus for Computing</a>	4	meet BSc entry requirements
6	COMP	7905	<a href="#">Art in Game Development</a>	3	COMP 7051 and COMP 7903
6	COMP	8042	<a href="#">Advanced Algorithms and Data Structures Design and Analysis</a>	3	MATH 7908† and MATH 7808† († may be taken concurrently)
6	COMP	8051	<a href="#">Advanced Games Architecture</a>	3	COMP 7051
6	COMP	8082	<a href="#">Project Management</a>	3	COMP 7082
6	MATH	7908	<a href="#">Linear Algebra and Applications for Computing</a>	4	meet BSc entry requirements
7	COMP	7003	<a href="#">Introduction to Information and Network Security</a>	3	meet BSc entry requirements
7	COMP	8085	<a href="#">Artificial Intelligence</a>	3	COMP 8042
7	COMP	8552	<a href="#">Advanced Games Programming Techniques</a>	3	COMP 8051 and COMP 7035
7	COMP	8800	<a href="#">Major Project 1</a>	3	COMP 8082 and LIBS 7001 and at least one 8000 level specialty course.
7	LIBS	7001	<a href="#">Critical Reading and Writing</a>	3	meet BSc entry requirements
7	LIBS	7002	<a href="#">Applied Ethics</a>	3	meet BSc entry requirements
8	COMP	7012	<a href="#">Interaction Design</a>	3	meet BSc entry requirements
8	COMP	8900	<a href="#">Major Project 2</a>	3	COMP 8800
8		XXXX	General Education Elective	9	

# Curriculum – Non technical

## Core General Education:

- LIBS7001 (Critical Reading and Writing)
- LIBS7002\* (Applied Ethics)

## General Education electives:

- e.g., LIBS 7008 (Logic and Practical Reasoning) and LIBS 7027 (Selected Topics)

\*Students who have completed the Computer Systems Technology (CST) Diploma are exempt from taking LIBS 7002 Applied Ethics since they have already taken the equivalent course, LIBS 7102 Ethics for Computing Professionals.

# Student Resources & Links



# Set Reps

- the voices of their sets (*Games/Network*)
- gather issues from students or instructors and bring them to meetings with the SA
- elected by each set in the classroom.



Please vote for your Set Rep.

# Student Resources

- Student Services, BCIT's website
- Student Success Hub, on the Learning Hub
- Student Association

Academic & Learning Services

Campus Amenities

Financial Aid & Awards

Health & Wellness

Indigenous Initiatives

International Student Centre

Rights, Responsibilities, & Safety

Student Association

**Are you a BCIT alumnus?**

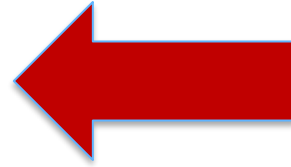




# Important Stuff

## Contacting us/other BCIT depts.

- Full Name & ID & Option \*\*\*



## Processes

- BCIT ♥ forms
  - e.g. course withdrawals, course credit, graduation

## MyBCIT, the Learning Hub, & the BCIT website

- schedule, grades, official communication, course info

## The Commons Pages

# Important Stuff

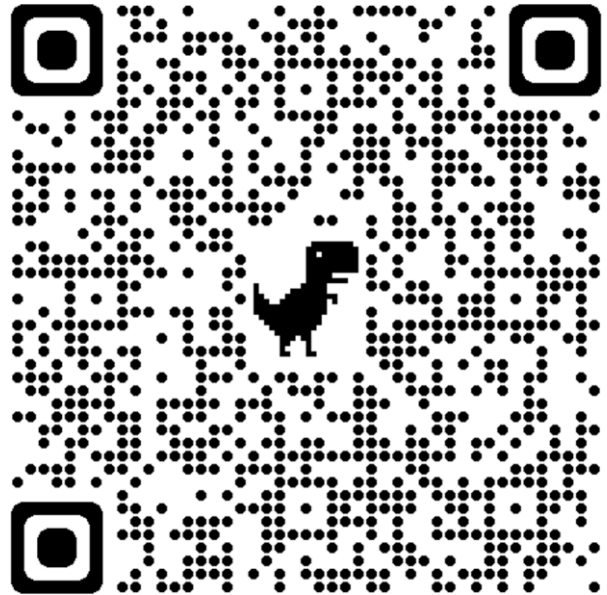
## ID Card

- Can order online or in-person, but pick up in-person with ID
- Need for lab access

## Dates & Deadlines

- Note important academic events and deadlines
  - e.g. course withdrawals, tuition due, midterms/finals
  - see Computing Calendar & BCIT website

QR code to BCIT's  
English Language  
Support Services



# LINKS

## Were you elected to be a Set Rep?

<https://www.bcitsa.ca/Leadership/>

## Student Services at BCIT

<https://www.bcit.ca/student-services/support-your-own-success/student-success-hub/>

## The BCIT Student Association (SA)

<https://www.bcitsa.ca/>

## Alumni Perks

<https://www.bcit.ca/alumni/enjoy/bcit-alumni-card-perks/>

# LINKS

## The Commons \*\*\*

<https://commons.bcit.ca/computing/>

## Need a Student ID Card?

<https://www.bcit.ca/card/>

## U-Pass – a student transit program

<https://www.bcit.ca/u-pass/>

## Academic Dates & Deadlines

<https://www.bcit.ca/academic-dates/>

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# QUESTIONS & ANSWERS

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**THANK YOU**