

Bachelor of Technology - Computer Systems

Maryam Tanha, CST BTech Program Head, Student Success

Kim Regler, CST BTech Program Coordinator

September 13th, 2022

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 **Sk̓wx̓wú7mesh** [Squamish], **səlilwətaʔ** [Tsleil-Waututh], and **xwməθkwəy̓əm** [Musqueam].

CST B.Tech Contacts

Maryam Tanha

Program Head – Student Success

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

Mirela Gutica

Program Head – Curriculum

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Kim Regler

Program Coordinator, CST Bachelor of Technology

Email: cstbtech@bcit.ca

Contact Kim for help with administrative requests.

Delivery – CST BTech Full-time

Fall 2022 – 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

Level 5: September 6, 2022 - December 9, 2022 (14 weeks)

Level 6: January 3, 2023 - April 17, 2023 (15 weeks; **no Spring Break**)

Level 7: September 2023 - December 2023 (15 weeks)

Exact start and end dates will be finalized later.

Level 8: January 2024 to April 2024 (15 weeks; **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
 - Specialized Courses
 - Technical Electives
 - General Education Electives
 - Management Electives
 - Major Proposal & Project

Curriculum – Technical

Core Courses:

COMP7082, COMP8082, COMP8042,
COMP 8085, MATH7908

Two Specializations (aka Options):

Network Security Applications Development – 3 courses

Games Development – 6 courses

Technical Electives:

N/W Security: 3 Network Security Administration courses

Games: N/A

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

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)

Management electives:

- e.g., BUSA 3105 (Leadership 1 - People Skills) and BUSA 7800 (Management Strategy)

<https://www.bcit.ca/files/cas/computing/pdf/cstbtechgeneraleducation.pdf>

Curriculum – Network Security

- Network Security Applications Development
 - Option head: D'Arcy Smith (DArcy_D_Smith@bcit.ca)

Level	Code	Number	Course Name	Credits	Prerequisites
5	COMP	7005	Computer Networks and Protocols	3	meet BTECH entry requirements
5	COMP	7006	Network Security Administration 1	3	meet BTECH entry requirements
5	COMP	7082	Software Engineering	3	meet BTECH entry requirements
5	LIBS	7001	Critical Reading and Writing	3	meet BTECH entry requirements
5	MATH	7908	Linear Algebra and Applications for Computing	3	meet BTECH entry requirements
6	COMP	8005	Network and Security Applications Development	3	COMP 7005
6	COMP	8006	Network Security Administration 2	3	COMP 7006
6	COMP	8082	Project Management	3	COMP 7082
6	LIBS	7002	Applied Ethics	3	meet BTECH entry requirements
6	LIBS	XXXX	General Education Elective	3	
7	COMP	8037	Major Project Proposal	3	COMP 8082, LIBS 7001, at least one 8000 level specialty course
7	COMP	8042	Advanced Algorithms and Data Structures Design and Analysis	3	MATH 7908
7	COMP	8505	Special Topics in Network and Security Development	3	COMP 8005
7	COMP	8506	Special Topics in Network Design and Implementation	3	COMP 8006
7	BUSA	XXXX	Management Elective	3	
8	COMP	8047	Major Project	6	COMP 8037
8	COMP	8085	Artificial Intelligence	3	COMP 8042
8	LIBS	XXXX	General Education Elective	3	
8	BUSA	XXXX	Management Elective	3	

Curriculum – Games Development

■ Games Development

➤ Option head: Borna Nouredin (borna_nouredin@bcit.ca)

Level	Code	Number	Course Name	Credits	Prerequisites
5	COMP	7051	Introduction to Computer Games Development	3	meet BTECH entry requirements
5	COMP	7082	Software Engineering	3	meet BTECH entry requirements
5	COMP	7903	Games Design Fundamentals	3	meet BTECH entry requirements
5	LIBS	7001	Critical Reading and Writing	3	meet BTECH entry requirements
5	MATH	7908	Linear Algebra and Applications for Computing	3	meet BTECH entry requirements
6	COMP	7904	Storytelling Techniques in Games	3	COMP 7903
6	COMP	8051	Advanced Games Architecture	3	COMP 7051
6	COMP	8082	Project Management	3	COMP 7082
6	COMP	8903	Physics for Games Development	3	MATH 7908
6	LIBS	7002	Applied Ethics	3	meet BTECH entry requirements
7	COMP	8037	Major Project Proposal	3	COMP 8082, LIBS 7001, at least one 8000 level specialty course
7	COMP	8042	Advanced Algorithms and Data Structures Design a	3	MATH 7908
7	COMP	8551	Advanced Games Programming Techniques 1	3	COMP 7051
7	LIBS	XXXX	General Education Elective	3	
7	BUSA	XXXX	Management Elective	3	
8	COMP	8047	Major Project	6	COMP 8037
8	COMP	8085	Artificial Intelligence	3	COMP 8042
8	LIBS	XXXX	General Education Elective	3	
8	BUSA	XXXX	Management Elective	3	

Major Project

- COMP 8037 – Proposal (3 credits)
- COMP 8047 – Major Project (6 credits)
- Individual project (no groups).
- Needs to be both innovative and complex.
- Requires 1 proposal and 1 final project report submission from each student.
- Proposals and reports are reviewed by an anonymous committee.
- Major project is the top reason for students not finishing, start thinking of an idea now.

Guest Speaker

Jeffery Verbeem

BCIT Library

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 by next week.

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

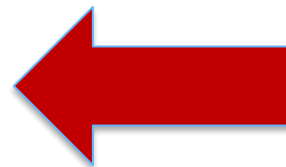
Are you a BCIT alumnus?



Important Stuff

Contacting us/other BCIT depts.

- Full Name & ID ***



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

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/>

QUESTIONS & ANSWERS

THANK YOU