

GREAT THINGS

HAPPEN HERE

Bachelor of Computer Science - Software Development

Three Years - Bachelor of Computer Science (BCSc)

Your Experience: Real-world software development projects, industry workshops and professional mentorship opportunities.

Prepare for a career in the dynamic and rapidly evolving field of software development. Gain the theoretical and hands-on skills to succeed in this comprehensive program. Learn key computer science concepts, including in-demand programming languages, algorithms, data structures and software engineering. Training culminates in two distinct concentrations: Artificial Intelligence and Machine Learning, and Mobile Application Development. This program provides numerous opportunities for industry networking, allowing students to build real-world connections and gain invaluable first-hand industry knowledge.



Program Contact

Dr. Abhijeetkumar Singh, Professor
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Bachelor of Computer Science - Software Development

Three Years – Bachelor of Computer Science (BCSc)

Program Code: BCSC Type: Full-Time Intake: Fall 2025 Campus: Commerce Court, North Bay

Your Future Career

- Programmer/analyst
- Software developer
- Web and mobile application developer
- DevOps engineer
- Information security analyst
- Game developer

What You Learn

- Data structures and algorithms
- Object oriented theory and programming
- Information and cybersecurity
- Web design and development
- Software development
- Operating systems

Admissions Requirements

OSSD or equivalent with six (6) 4U/4M credits including English and Math.

A minimum 65% average is required.

Certification/Accreditation

Bachelor of Computer Science

Curriculum

Semester 1

- BCSC111 Programming Principles
- BCSC112 Mathematics for Computer Science
- BCSC113 Data Structures and Algorithms
- BCSC114 Introduction to Computer Networks

Semester 2

- BCSC121 Object Oriented Theory and Programming
- BCSC122 Discrete Mathematics for Software Development
- BCSC123 Database Modelling and Systems
- BCSC120 Fundamentals of Project Management and Technical Communication

Semester 3

- BCSC211 Information Security and Cybersecurity
- BCSC212 Web Design, Scripting, and Development
- BCSC213 Software Quality I – Tools, Techniques, Build and Release
- BCSC214 Human-Computer Interaction and User Experience Design

Semester 4

- BCSC221 Operating Systems for Programmers – UNIX
- BCSC222 Enterprise Software Systems
- BCSC223 Software Quality II – Performance, Testing, and Analysis
- BCSC220 Software Development – Group Project

Semester 5

- BCSC311 Ethics, Law, and the Social Impacts of Computing
- BCSC312 Computer and Management Information Systems

Semester 6

- BCSC322 Applied Work Term (15 weeks)

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