

# Flexible Learning BScACS - Program Map

## Admission Requirements:

- BCIT Computer Systems Technology (CST) Diploma or
- A minimum of 60 credits of post-secondary level education in Computing from a recognized institution and entry requirements

Course Areas	Curriculum	Credits
Core	<div> <div>COMP 7003 Introduction to Information &amp; Network Security 3 credits</div> <div>+</div> <div>COMP 7035 Operating Systems 3 credits</div> <div>+</div> <div>COMP 8042 Advanced Algorithms and Data Structures Design and Analysis 3 credits</div> <div>+</div> <div>COMP 8085 Artificial Intelligence 3 credits</div> <div>+</div> <div>MATH 7908 Linear Algebra and Applications for Computing 4 credits</div> </div> <div> <div>+</div> <div>COMP 7012 Interaction Design 3 credits</div> <div>+</div> <div>COMP 7082 Software Engineering 3 credits</div> <div>+</div> <div>COMP 8082 Project Management 3 credits</div> <div>+</div> <div>MATH 7808 Calculus for Computing 4 credits</div> </div>	29
Major Project	<div>COMP 8800 Major Project 1 3 credits</div> <div>+</div> <div>COMP 8900 Major Project 2 3 credits</div>	6
Speciality	<p>Choose ONE area of specialization:</p> <div> <div>Network Security App. Dev. Option:</div> <div>COMP 7005 Computer Networks &amp; Protocols 3 credits</div> <div>+</div> <div>COMP 7402 Cryptography 3 credits</div> <div>+</div> <div>COMP 8003 Network Security Administration 3 credits</div> <div>+</div> <div>COMP 8005 Network &amp; Security Applications Development 3 credits</div> <div>+</div> <div>COMP 8505 Special Topics in Network &amp; Security Development 3 credits</div> </div> <div> <div>Database Option:</div> <div>COMP 7071 Database Design 3 credits</div> <div>+</div> <div>COMP 8071 Advanced Database Application 3 credits</div> <div>+</div> <div>COMP 8575 Data Mining and Analytics 3 credits</div> </div> <div> <div>Human Computer Interface Option:</div> <div>COMP 7022 Foundations of Human-Computer Interaction 3 credits</div> <div>+</div> <div>COMP 8022 Multimodal Interfaces 3 credits</div> <div>+</div> <div>COMP 8522 Adaptive User Interfaces 3 credits</div> </div> <div> <div>Wireless &amp; Mobile Option:</div> <div>COMP 7031 Mobile Applications Development Fundamentals 3 credits</div> <div>+</div> <div>COMP 8031 Interactive &amp; Responsive Mobile Applications 3 credits</div> <div>+</div> <div>COMP 8531 Robust and Secure Mobile Applications 3 credits</div> </div> <div> <p>Choose 6 credits from the following, with recommended 3 credits at 8000 level:</p> <div> <div>COMP 7401-7409 Topics in Computer Programming 3 credits</div> <div>Or</div> <div>COMP 7881-7889 Advanced Topics in Software Engineering 3 credits</div> </div> <div> <div>COMP 7611-7619 Selected Topics in Computer Systems 3 credits</div> <div>Or</div> <div>Or choose from another speciality</div> </div> </div>	15
General Education*	<div>LIBS 7001 Critical Reading and Writing 3 credits</div> <div>+</div> <div>LIBS 7002** Applied Ethics 3 credits</div> <div>+</div> <div>General Education Electives Choose 9 credits from approved courses</div>	15

\*For more information, please review the General Education Requirements for the BScACS program at <https://www.bcit.ca/files/cas/computing/pdf/bscacsgeeducation.pdf>

\*\*Students who have completed the CST Diploma do not have to take LIBS 7002 Applied Ethics as they have taken LIBS 7102 Ethics for Computing Professionals in the CST Diploma program, which is an equivalent course.

Updated February 2023

**Total Credits: 65**