



Full-Time BScACS

Database Option - 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

Term 5 (15weeks)	COMP 7003 Introduction to Information & Network Security 3 credits	COMP 7035 Operating Systems 3 credits	COMP 7082 Software Engineering 3 credits	MATH 7808 Calculus for Computing 4 credits	COMP 7071 Database Applications Development and Optimization 3 credits	16 credits	
Term 6** (15weeks)	COMP 8042 Advanced Algorithms & Data Structures Design and Analysis 3 credits	COMP 8082 Project Management 3 credits	MATH 7908 Linear Algebra and Applications for Computing 4 credits	COMP 7171 Data Center Design 3 credits	COMP 8071 Data Warehousing 3 credits	16 credits	
Term 7 (15weeks)	COMP 8085 Artificial Intelligence 3.0 3 credits	COMP 8800 Major Project 1 3 credits	COMP 8171 Database Systems Security 3 credits	COMP 8575 Data Mining and Analytics 3 credits	LIBS 7001 Critical Reading and Writing 3 credits	LIBS 7002* Applied Ethics 3 credits	18 credits
Term 8 (15weeks)	COMP 7012 Interaction Design 3 credits	COMP 8900 Major Project 2 3 credits	General Education Elective 3 credits	General Education Elective 3 credits	General Education Elective 3 credits	15 credits	

*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.

**Students admitted to the competitive co-op program will complete COMP 7990 Cooperative Education Workterm 1 and COMP 8990 Cooperative Education Workterm 2 after Term 6 and before Term 7 (e.g. for Fall intake: Workterm 1: September through December, Workterm 2: January through April).