

DIPLOMA COMPUTER SYSTEMS TECHNOLOGY

Program Matrix for students started CST prior to Sept 2018

First Year – Level 1		Credits
COMM 1116	Business Communications 1	4.0
COMP 1100	CST Program Fundamentals	1.0
COMP 1111	Essential Skills for Computing	4.0
COMP 1113	Applied Mathematics	4.0
COMP 1510	Programming Methods	7.0
COMP 1536	Introduction to Web Development	4.0
BUSA 2720	Business in a Networked Economy	4.0
First Year – Level 2		Credits
COMM 2216	Business Communications 2	4.0
COMP 2121	Discrete Mathematics	4.0
COMP 2510	Procedural Programming	5.0
COMP 2522	Object Oriented Programming 1 ¹	5.0
COMP 2526	Object-Oriented Programming with Java	4.0
COMP 2714	Relational Database Systems	5.0
COMP 2721	Computer Organization/Architecture	4.0
COMP 2910	Projects 2 * **	6.0

Note: Effective September 2018, COMP 2910 will be changed to COMP 2930.

¹ Effective January 2019, COMP 2522 replaces COMP 2526.

Note: At the end of the first year, students apply to an option.

Second Year – Level 3		Credits
Common courses:		
COMP 3512	Object Oriented Programming in C++	6.0
COMP 3522	Object Oriented Programming 2 ²	6.0
COMP 3711	Object Oriented Analysis and Design	4.0
COMP 3712	Object Oriented Analysis and Design ²	4.0
COMP 3721	Introduction to Data Communication	4.0
COMP 3760	Algorithm Analysis and Design	4.0
COMP 3900	Computer Projects Practicum 1	5.0
² Effective September 2019, COMP 3522 replaces COMP 3512 and COMP 3712 replaces COMP 3711.		
and		
Artificial Intelligence and Machine Learning Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 3981	Introduction to Artificial Intelligence	5.0
or		
Client/Server Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 3940	Client/Server Computing 1	5.0
or		
Cloud Computing Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 3962	Cloud Computing Platforms	5.0

or		
Combined (Web and Mobile) Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 3975	Server-Side Web Scripting with PHP	5.0
or		
Database Option:		
COMP 3920	Database Systems 1	5.0
COMP 4925	Selected Topics in Database Systems	5.0
or		
Data Communications and Internetworking Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 3980	Data Communications/Internetworking 1	5.0
or		
Digital Processing Option:		
COMP 3770	Programming Windows	4.0
COMP 3931	Digital Image, Video and Audio Fundamentals	5.0
or		
Information Systems Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 3910	Information Technology Management	5.0
or		
Technical Programming Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 3951	Technical Programming 1	5.0

Second Year – Level 4		
Common courses:		
BLAW 3600	Computers and the Law	4.0
COMP 4100	Career Preparation ³	2.0
COMP 4735	Operating Systems	5.0
COMP 4900	Computer Projects Practicum 2 *	5.0
³ Effective September 2018, COMP 4100 will not be offered.		
and		
Artificial Intelligence and Machine Learning Option:		
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4983	Machine Learning	5.0
COMP 4989	Selected Topics in AI/ML	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0
or		
Client/Server Option:		
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4941	Client/Server Computing 2	5.0
COMP 4945	Special Topics in Client/Server	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0

or		
Cloud Computing Option:		
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4964	DevOps Engineering	5.0
COMP 4968	Serverless Computing and Microservices	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0
or		
Combined (Web and Mobile) Option:		
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4976	Web Applications with ASP.NET	5.0
COMP 4977	iOS Application Development for iPhone and iPad	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0
or		
Database Option:		
COMP 3717	Mobile Application Development with Android	4.0
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4921	Database Systems 2	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0

or		
Data Communication and Internetworking Option:		
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4981	Data Communications/Internetworking 2	5.0
COMP 4985	Selected Topics in DC/I	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0
or		
Digital Processing Option:		
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4932	Advanced Topics in Digital Processing	5.0
COMP 4995	Gaming Systems	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0
or		
Information Systems Option:		
COMP 4870	Intranet Planning and Development	7.0
COMP 4911	Managing IS Development	5.0
COMP 4915	Special Topics in MIS	5.0
or		
Technical Programming Option:		
COMP 4560	Computer Graphics for CST ⁴	4.0
COMP 4711	Introduction to Internet Software Development	3.0
COMP 4952	Technical Programming 2	5.0
COMP 4956	System Programming	5.0
MATH 3042	Applied Probability and Statistics for CST	5.0
⁴ Effective September 2018, MATH 3042 replaces COMP 4560.		

Co-op Work Term Courses (Optional) <i>To be completed after Level 2 and prior to Level 3, commencing in January or May.</i>		Credits
COMP 2990	Co-operative Education Work Term 1	16.0
COMP 3990	Co-operative Education Work Term 2	16.0
<p>All courses are 15 weeks in duration except where otherwise noted.</p> <p>* denotes a five-week course, delivered from late April through to the end of May.</p> <p>** COMP 2910 and COMP 4100 are optional for students who successfully complete one term of co-op education.</p>		
Total Credits:		125.0