

**T177 - Computer Programming and Analysis PATHWAY**

<b>Semester 1: Fall 2020 or Winter 2021 (2020-01/02)</b>			<b>Delivery</b>
<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Hrs/wk</b>
COMP 1151	IT Essentials		4
COMP 1236	Applied Programming Logic		4
COMP 1223	Web Development Fundamentals		4
GSSC 1045	Business Applications for Information Technology		3
MATH 1162	Mathematics for Computer Technology I		4
COMM 1007*	College English		3
		<b>Total Hours</b>	<b>22</b>
<p>*Depending on the results of your placement test, you may be required to take Foundation Level Communications: COMM 1003 (English Skills) or CESL 1003 (English Skills-ESL) before progressing to COMM 1007. Students placed in COMM 1003 or CESL 1003 will be charged extra tuition. Please visit the Assessment Centre for further information <a href="http://assessment.georgebrown.ca/">http://assessment.georgebrown.ca/</a></p>			
<b>Semester 2: Winter 2021 or Summer 2021 (2020-02/03)</b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Hrs/wk</b>
COMP 1168	Database Management		4
COMP 1202	Object Oriented Programming		4
COMP 1231	Web Programming	COMP 1223	4
COMP 3044	Unix Essentials		3
MATH 1172	Mathematics for Computer Technology II	MATH 1162	4
GSSC 1027	Personal Finance		3
		<b>Total Hours</b>	<b>22</b>
<b>Semester 3: Fall 2021 (2021-01)</b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Hrs/wk</b>
COMP 1230	Advanced Web Programming	COMP 1231	4
COMP 2129	Advanced Object Oriented Programming	COMP 1202	4
COMP 2130	Application Development Using Java	COMP 1202	4
COMP 2147	System Analysis, Design and Testing	COMP 1231	4
COMP 2138	Advanced Database Development	COMP 1168	4
GNED	General Education Elective (Select One)		3
		<b>Total Hours</b>	<b>23</b>
<b>Semester 4: Winter 2022 (2021-02)</b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Hrs/wk</b>
COMP 2080	Data Structures and Algorithms	COMP 2130	4
COMP 2151	Agile Software Development	COMP 2147	4
COMP 2148	Professional workplace competencies	COMM 1007	3
COMP 2139	Web Application Development	COMP 1230	4
COMP 2152	Open Source Development	COMP 1230	4
GNED	General Education Elective (Select One)		3
		<b>Total Hours</b>	<b>22</b>
<b>Semester 5: Fall 2022 (2022-01)</b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Hrs/wk</b>
COMP 3059	Capstone Project I	COMP 2151	4
COMP 3104	DEVOPS	COMP 3044	3
COMP 3074	Mobile Application Development I	COMP 2080	4
COMP 3095	Web Application Development Using Java	COMP 2080	4
COMP 3122	Applied Data Science	COMP 2152	4
COMP 3123	Full Stack Development I	COMP 2139	4
		<b>Total Hours</b>	<b>23</b>
<b>Semester 6: Winter 2023 (2022-02)</b>			
<b>Course Code</b>	<b>Course Title</b>	<b>Pre-Requisite</b>	<b>Hrs/wk</b>
COMP 3078	Capstone Project II	COMP 3059	5
COMP3134	Introduction to Cyber Security	COMP 3104	4
COMP 3097	Mobile Application Development II	COMP 3074	4
COMP 3133	Full Stack Development II	COMP 3123	4
COMP 3132	Applied Machine Learning	COMP 3122	4
		<b>Total Hours</b>	<b>21</b>
<b>*PATHWAY SUBJECT TO CHANGE*</b>			