

MODEL ROUTE											
School:	School of Engineering Technology and Applied Science		Program Number:	3419							
Program Title:	Software Engineering Technology Co-op		Credential:	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate	<input type="checkbox"/> Degree					
				<input type="checkbox"/> Diploma	<input checked="" type="checkbox"/> Advanced Diploma						
Program Delivery Mode:	<input checked="" type="checkbox"/> Co-Op	<input type="checkbox"/> Online	Duration :	<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 3 Semesters						
	<input type="checkbox"/> Fast Track	<input type="checkbox"/> Hybrid		<input type="checkbox"/> 4 Semesters	<input checked="" type="checkbox"/> 6 Semesters						
	<input type="checkbox"/> Non Co-op			<input type="checkbox"/> 8 Semesters							
Campus:	Progress										
Intake:	Fall 2020 and Winter 2021										
Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours		
Semester 1	Fall 2020 or Winter 2021										
COMM160/161	College Communications 1			3			3	14	42		
COMP100	Programming 1		2	2			4	14	56		
COMP120	Software Engineering Fundamentals		2	2			4	14	56		
COMP213	Web Interface Design		4				4	14	56		
GNED	General Education Elective			3			3	14	42		
MATH175	Functions and Number Systems		1	2			3	14	42		
								Total	294		
Semester 2	Winter 2021 or Summer 2021										
COMM170/171	College Communications 2	P=COMM170/171		3			3	14	42		
COMP122	Introduction to Database Concepts		2	2			4	14	56		
COMP123	Programming 2	P=COMP100	2	2			4	14	56		
COMP125	Client-Side Web Development	P=COMP100, COMP213	2	2			4	14	56		
COMP225◆	Software Engineering Methodologies 1	P=COMP100, and, COMP120 or COMP391	2	2		HYB	4	14	56		
COMP301	UNIX/Linux Operating Systems	P=COMP100	2	2			4	14	56		
MATH185	Discrete Mathematics			3			3	14	42		
								Total	364		
Break (Summer 2021)											
Semester 3	Fall 2021										
COMP214	Advanced Database Concepts	P=COMP122	2	2			4	14	56		
COMP228	Java Programming	P=COMP123	2	2			4	14	56		
COMP229	Web Application Development	P=COMP123 and COMP125	2	2			4	14	56		
COMP246	Software Systems Design	P=COMP123 and COMP225	2	2			4	14	56		
COOP321/421◆	Employment Preplacement	P=COMM170/171 minimum"C" grade; CGPA 2.5; 80% year 1 courses completed		1		ODL	1	14	14		
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3			3	14	42		
GNED500	Global Citizenship: from Social Analysis to Social Action			3			3	14	42		
								Total	322		
Work Term 1 (Winter 2022)											
COOP222	Co-op Work Placement 1										
Semester 4	Summer 2022										
COMP212	Programming 3	P=COMP123	2	2			4	14	56		
COMP216	Networking for Software Developers	P=COMP100	2	2			4	14	56		
COMP254	Data Structures and Algorithms	P=COMP228	2	2			4	14	56		
COMP304	Mobile Apps Development	P=COMP228	2	2			4	14	56		
COMP311	Software Testing and Quality Assurance	P=COMP123	2	2			4	14	56		
MATH210	Linear Algebra and Statistics	P=MATH175 and MATH185	2	2			4	14	56		
								Total	336		
Work Term 2 (Fall 2022)											
COOP331	Co-op Work Placement 2										
Semester 5	Winter 2023										
CNET307◆	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP246	1	2		ODL	3	14	42		

COMP231◆	Software Development Project 1	P=COMP228 and COMP229 and COMP246	2	2		HYB		4	14	56
COMP303	Java EE Programming	P=COMP214 and COMP228	2	2				4	14	56
COMP308	Emerging Technologies	P=COMP228 and COMP229	2	2				4	14	56
COMP321◆	Enterprise Systems Integration	P=COMP246	2	2		HYB		4	14	56
ELECT1	Technical Elective 1		2	1				3	14	42
								Total		308

Work Term 3 (Summer 2023)

COOP332	Co-op Work Placement 3									
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Semester 6 Fall 2023

COMP255◆	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL		3	14	42
COMP306	API Engineering and Cloud Computing	P=COMP212 and COMP229	2	2				4	14	56
COMP307	Software Security	P=COMP212 and COMP228	2	2				4	14	56
COMP309	Data Warehousing and Predictive Analytics	P=COMP214	2	2				4	14	56
COMP313◆	Software Development Project 2	P=COMP231 and COMP303 and COMP304, or, COMP231 and COMP381, or, COMP231 and COMP305 and COMP391, or, COMP246 and COMP258	2	2		HYB		4	14	56
GNED	General Education Elective			3				3	14	42
								Total		308

Minimum Grade Required: D

Total Program Hours: 1932

C = Co-Requisite; P = Pre-Requisite

Notes:										
◆This course may be offered in one of the following modalities (Online, Hybrid or Blended)										
<u>Technical Electives:</u>										
COMP367	DevOps Implementation		2	1				3	14	42
COMP377	AI for Software Developers		2	1				3	14	42
COMP387◆	Clinical Workflow and IT Solutions		2	1		ODL		3	14	42