

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 <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input type="checkbox"/> Non Co-op	Duration :	<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 3 Semesters					
			<input type="checkbox"/> 4 Semesters	<input checked="" type="checkbox"/> 6 Semesters					
			<input type="checkbox"/> 8 Semesters						
Campus:	Progress								
Intake:	Fall 2019 and Winter 2020								
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 2019 or Winter 2020								
COMM170/171	College Communications 2			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 2020 or Summer 2020								
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	2	2		HYB	4	14	56
COMP301	UNIX/Linux Operating Systems	P=COMP100	2	2			4	14	56
MATH185	Discrete Mathematics		1	2			3	14	42
								Total	322
Break (Summer 2020)									
Semester 3	Fall 2020								
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=COMP100, COMP120	2	2			4	14	56
COMP246	Object Oriented Software Engineering	P=COMP123, COMP225	2	2			4	14	56
COOP321◆	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=COMM170/171		3			3	14	42
GNED500	Global Citizenship: from Social Analysis to Social Action			3			3	14	42
								Total	322
Work Term 1 (Winter 2021)									
COOP222	Co-op Work Placement 1								
Semester 4	Summer 2021								
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 Application 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, MATH185	2	2			4	14	56
								Total	336
Work Term 2 (Fall 2021)									
COOP331	Co-op Work Placement 2								
Semester 5	Winter 2022								
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◆	Systems Integration	P=COMP246 and ENGL253	2	2		HYB	4	14	56
ELECT1	Technical Elective 1		2	1			3	14	42
							Total		308

Work Term 3 (Summer 2022)

COOP332	Co-op Work Placement 3								
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Semester 6 Fall 2022

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
GNEED	General Education Elective			3			3	14	42
							Total		308

Minimum Grade Required: D

Total Program Hours: 1890

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
COMP387◆	Clinical Workflow and IT Solutions		2	1		ODL	3	14	42
COMP377	AI for Software Developers		2	1			3	14	42
COMP397	Web Game Programming	P=COMP123 or COMP225	2	1			3	14	42