MODEL ROUTE											
School:	School of Engineering Technology and Applied Science	Program Number:		3439							
Program Title:	Software Engineering Technology Co-op, Fast Track	Credential:		_		Graduate Certificate					
Program Delivery Mode:	✓ Co-Op Online ✓ Fast Track Hybrid Non Co-op	Duration :		2 Semesters		4 Semesters 6 Semesters 8 Semesters					
Campus:	PROGRESS	Department Code:		3515							
Intake:	Fall 2023 and Winter 2024 and Summer 2024										
Course Code	Course Title	Co/Pre Requisite (Course Code)	Lab Hours	Lecture Hours	Field Placement Hours	Course Delivery t ODL=Online BLD=Blended HYB = Hybrid	Total Course Hrs (Lab + Lecture + Field)	Weeks (14)	Total Hours		
Semester 3	Fall 2023 or Winter 2024 or Summer 2	2024									
COMM170/171	College Communications 2	P=COMM160 or COMM161		3			3		42		
COMP123	Programming 2	P=COMP100	2	2			4		56		
COMP214	Advanced Database Concepts	P=COMP122	2	2			4	14	56		
COMP228	Java Programming	P=COMP123	2	2			4	14	56		
COMP246	Software Systems Design	P=COMP123 and COMP225	2	2			4	14			
GNED	General Education Elective			3			3	14	42		
GNED500	Global Citizenship: from Social Analysis to Social Action			3			3	14	42		
Semester 4	Winter 2024 or Summer 2024 or Fall 2	2024						Total	350		
COMP212	Programming 3	P=COMP123	2	2			4	14	56		
COMP229	Web Application Development	P=COMP123 and COMP125	2	2			4				
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		
COOP321/421 �	Employment Preplacement	P=COMM170/171 minimum"C" grade; CGPA 2.5; 80% year 1 courses completed		1		ODL	1	14	14		
MATH210	Linear Algebra and Statistics	P=MATH175 and MATH185	2	2			4	14	56		
=								Total	350		
Work Term 1	Summer 2024 or Fall 2024 or Winter 2	2025									
COOP222	Co-op Work Placement 1										
Work Term 2	Fall 2024 or Summer 2025 or Fall 2025	5									
COOP331	Co-op Work Placement 2										
	p :										
Semester 5	Winter 2025 or Summer 2025										
CNET307�	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP246	1	2		ODL	3	14	42		
COMP216	Networking for Software Developers	P=COMP100	2	2			4	14	56		
COMP231�	Software Development Project 1	P=COMP228 and COMP229 and COMP246	2	2		НҮВ	4	14	56		
COMP303	Enterprise Application Development	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		НҮВ	4	14	56	
	, , ,							Total	322	
Break	Summer 2025					'	!			
Semester 6	Fall 2025 or Winter 2026									
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		НҮВ	4	14	56	
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3			3	14	42	
ELECT1	Technical Elective 1		1	2			3	14	42	
								Total	350	
Minimum Grade Required: D										
									1372	
C = Co-Requisite; P	= Pre-Requisite									
Notes: Technical Electives:										
COMP367�	DevOps Implementation		2	1		ODL	3	14	42	
COMP377 ♦	Al for Software Developers		2	1		ODL	3		42	