MODEL ROUTE School of Engineering Technology **Program Number:** 3419 School: and Applied Science ☐ Certificate ☐ Graduate Certificate □ Degree **Software Engineering Technology Program Title:** Credential: ☑ Advanced Diploma ☐ Centennial College Certificate ☐ Diploma Co-op Online ✓ Co-Op 4 Semesters ☐ 1 Semesters **Program Delivery** Fast Track ☐ Hybrid **Duration:** ☐ 2 Semesters 6 Semesters Mode: ☐ Non Co-op ☐ 3 Semesters ☐ 8 Semesters **PROGRESS Department Code:** 3515 Campus: Fall 2022 and Winter 2023 Intake: Course Total Field Delivery Course Hrs Co/Pre Requisite Lab Lecture Weeks **Total Hours** Course Code ODL=Online Course Title **Placement** (Lab + (Course Code) Hours Hours (14) Hours BLD=Blended Lecture + HYB = Hybrid Field) Semester 1 Fall 2022 or Winter 2023 COMM160/161 College Communications 1 3 3 42 14 COMP100 Programming 1 2 2 4 14 56 COMP120 2 2 Software Engineering Fundamentals 4 14 56 4 COMP213 Web Interface Design 4 14 56 GNED **General Education Elective** 3 3 14 42 MATH175 **Functions and Number Systems** 3 3 14 42 Total 294 Winter 2023 or Summer 2023 Semester 2 P=COMM160 or COMM170/171 College Communications 2 3 COMM161 3 14 42 COMP122 Introduction to Database Concepts 2 2 4 14 56 COMP123 P=COMP100 Programming 2 2 2 4 14 56 P=COMP100 and COMP125 Client-Side Web Development COMP213 2 2 4 14 56 P=COMP100, and, COMP225♦ Software Requirements Engineering COMP120 or COMP391 2 2 HYB 4 14 56 **COMP301** P=COMP100 **UNIX/Linux Operating Systems** 2 2 4 14 56 MATH185 Discrete Mathematics 3 3 14 42 Total 364 Break Summer 2023 Fall 2023 Semester 3 COMP214 **Advanced Database Concepts** P=COMP122 2 2 4 14 56 COMP228 Java Programming P=COMP123 2 2 4 14 56 P=COMP123 and COMP229 Web Application Development 2 2 COMP125 4 14 56 P=COMP123 and COMP246 Software Systems Design 2 2 COMP225 4 14 56 P=COMM170/171 minimum"C" grade; COOP321/421� **Employment Preplacement** 1 ODI CGPA 2.5; 80% year 1 courses completed 1 14 14 P=COMM170 or ENGL253 **Advanced Business Communications** 3 14 42 COMM171 3 Global Citizenship: from Social GNED500 3 **Analysis to Social Action** 3 14 42 322 **Total** Winter 2024 Work Term 1 COOP222 Co-op Work Placement 1 Summer 2024 Semester 4 COMP212 P=COMP123 2 2 4 14 56 Programming 3 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** P=COMP228 2 2 4 56 Mobile Apps Development 14 Software Testing and Quality COMP311 P=COMP123 2 2 Assurance 4 14 56 P=MATH175 and 2 2 MATH210 Linear Algebra and Statistics 14 MATH185 4 56

Fall 2024

Winter 2025

Co-op Work Placement 2

Work Term 2 COOP331

Semester 5

Total

336

		P=COMM170 or							
CNET307�	IT Project Management	COMM171, and,	1	2	,	ODL	1	1	
CIVETOS. 1	Ti i Tojece managama	CNET229 or COMP246	1	[]				14	42
		P=COMP228 and	-				3	14	42
COMP231�	Software Development Project 1	COMP229 and	2	2	,	НҮВ	1	1	
CON. 202 ;	Joreware Development	COMP246		1			4	14	56
COMP303	Java EE Programming	P=COMP214 and	2	2					
COlvir 303	Java EE Programming	COMP228					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		
ELECT1	Technical Elective 1	1-001111212	2			-	3		
							-	Total	308
Work Term 3	Summer 2025								
COOP332	Co-op Work Placement 3								
Semester 6	Fall 2025		Т		1		T	1	
COMP255�	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL	3	14	42
COMP306	API Engineering and Cloud	P=COMP212 and	2	2	,				
CO 22 2	Computing	COMP229					4	14	56
СОМРЗО7	Software Security	P=COMP212 and COMP228	2	2			4	14	56
СОМРЗО9	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
GNED	General Education Elective			3			3		
GINED	General Education Elective						-	Total	308
Minimum Grade F	Required: D							1012	
	·		Total Program Hours:					1932	
C = Co-Requisite; P	= Pre-Requisite								
Notes: This course may	ay be offered in one of the followin	ig modalities (Online, H	lybrid or	Blended))				
Technical Electives:	:								
COMP367	DevOps Implementation		2	1			3	14	42
COMP377	Al for Software Developers		2	1			3		
COMP387�	Clinical Workflow and IT Solutions		2	1					
COIVIF 307 \$	Cliffical vvoikilovv and it solds.s					ODL	3	14	42