

# MODEL ROUTE

<b>School:</b>	School of Engineering Technology and Applied Science	<b>Program Number:</b>	3439						
<b>Program Title:</b>	<b>Software Engineering Technology Co-op Fast Track</b>	<b>Credential:</b>	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate	<input type="checkbox"/> Degree				
			<input type="checkbox"/> Diploma	<input checked="" type="checkbox"/> Advanced Diploma					
<b>Program Delivery Mode:</b>	<input checked="" type="checkbox"/> Co-Op <input type="checkbox"/> Online <input checked="" type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input type="checkbox"/> Non Co-op	<b>Duration :</b>	<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 3 Semesters					
			<input checked="" type="checkbox"/> 4 Semesters	<input type="checkbox"/> 6 Semesters					
			<input type="checkbox"/> 8 Semesters						
<b>Campus:</b>	<b>Progress</b>								
<b>Intake:</b>	<b>Fall 2018 and Winter 2019</b>								

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
<b>Semester 3    Fall 2018 or Winter 2019</b>									
COMM170/171	College Communications 2	P=COMM160/161		3			3	14	42
COMP123	Programming 2	P=COMP100	2	2			4	14	56
COMP214	Advanced Database Concepts	P=COMP122	2	2			4	14	56
COMP228	Java Programming	P=COMP123	2	2			4	14	56
COMP246	Object Oriented Software Engineering	P=COMP123, COMP225	2	2			4	14	56
GNEED	General Education Elective			3			3	14	42
GNEED500	Global Citizenship: from Social Analysis to Social Action			3			3	14	42
								<b>Total</b>	<b>350</b>
<b>Semester 4    Winter 2019 or Summer 2019</b>									
COMP212	Programming 3	P=COMP123	2	2			4	14	56
COMP229	Web Application Development	P=COMP123, COMP125	2	2			4	14	56
COMP254	Data Structures and Algorithms	P=COMP123	2	2			4	14	56
COMP304	Wireless Programming	P=COMP228	2	2			4	14	56
COMP311	Software Testing and Quality Assurance	P=COMP123	2	2			4	14	56
COOP321	Employment Preplacement	P=COMM170/171 minimum "C" grade; CGPA 2.5; 80% year 1 courses completed		1			1	14	14
MATH210	Linear Algebra and Statistics	P=MATH175, MATH185	2	2			4	14	56
								<b>Total</b>	<b>350</b>
<b>Work Term 1 (Summer 2019 or Fall 2019)</b>									
COOP222	Co-op Work Placement 1								
<b>Work Term 2 (Fall 2019 or Summer 2020)</b>									
COOP331	Co-op Work Placement 2								
<b>Semester 5    Winter 2020</b>									
CNET124	Fundamentals of Computer Networks	P=(CNET101, CNET102) or COMP100 or ETEC116	2	2			4	14	56

CNET307	IT Project Management	P=COMM170/171, CNET229 or COMP225 or ETEC225 or MATH180	1	2		ODL		3	14	42
COMP231	Software Development Project 1	P=COMP228, COMP229, COMP246	2	2				4	14	56
COMP303	Java EE Programming	P=COMP214, COMP228	2	2				4	14	56
COMP308	Emerging Technologies	P=COMP212, COMP228	2	2				4	14	56
COMP321	Systems Integration	P=COMP246, ENGL253	2	2				4	14	56
									<b>Total</b>	<b>322</b>

Break (Summer 2020)

**Semester 6 Fall 2020**

COMP255	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL		3	14	42
COMP306	API Engineering and Cloud Computing	P=COMP212	2	2				4	14	56
COMP307	Software Security	P=COMP212, COMP228	2	2				4	14	56
COMP309	Data Warehousing and Data Mining in HCIS	P=COMP214	2	2				4	14	56
COMP313	Software Development Project 2	P= COMP231, COMP381 or (COMP303, COMP306) or (COMP305, COMP391)	2	2		HYB		4	14	56
ENGL253	Advanced Business Communications	P=COMM170/171		3				3	14	42
ELECT1	Technical Elective 1		1	2				3	14	42
									<b>Total</b>	<b>350</b>

**Minimum Grade Required: D**

**Total Program Hours: 1372**

**C = Co-Requisite; P = Pre-Requisite**

**Notes:**

Technical Electives:

COMP387	Clinical Workflow and IT Solutions		2	1		ODL		3	14	42
COMP397	Web Game Programming	P=COMP123 or COMP225	2	1				3	14	42