

# 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 2020 and Winter 2021 and Summer 2021</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</b>	<b>Fall 2020 or Winter 2021 or Summer 2021</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
GNED	General Education Elective			3			3	14	42
GNED500	Global Citizenship: from Social Analysis to Social Action			3			3	14	42
								<b>Total</b>	350
<b>Semester 4</b>	<b>Winter 2021 or Summer 2021 or Fall 2021</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=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
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, MATH185	2	2			4	14	56
								<b>Total</b>	350
<b>Work Term 1 (Summer 2021 or Fall 2021 or Winter 2022)</b>									
COOP222	Co-op Work Placement 1								
<b>Work Term 2 (Fall 2021 or Summer 2022 or Fall 2022)</b>									
COOP331	Co-op Work Placement 2								
<b>Semester 5</b>	<b>Winter 2022 or Summer 2022</b>								
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		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
							<b>Total</b>		<b>322</b>
Break (Summer 2022)									
Semester 6 <b>Fall 2022 or Winter 2023</b>									
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
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3			3	14	42
ELECT1	Technical Elective 1		1	2			3	14	42
							<b>Total</b>		<b>350</b>
<b>Minimum Grade Required: D</b>									
								<b>Total Program Hours:</b>	<b>1372</b>

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

**Notes:**

Technical Electives:

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