

MODEL ROUTE

School:

School of Engineering Technology and Applied Science

Program Title:

Software Engineering Technology Co-op

Program Delivery Mode:

☒ Co-Op

☐ Fast Track

☐ Non Co-op

☒ Online

☐ Hybrid

Program Number:

3449

Credential:

☐ Certificate

☐ Diploma

☐ Graduate Certificate

☒ Advanced Diploma

☐ Degree

☐ Centennial College Certificate

Duration :

☐ 1 Semesters

☐ 2 Semesters

☐ 3 Semesters

☐ 4 Semesters

☒ 6 Semesters

☐ 8 Semesters

Campus:

ONLINE

Department Code:

3515

Intake:

Fall 2022 and Winter 2023

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 2022 or Winter 2023								
COMM160/161	College Communications 1			3		ODL	3	14	42
COMP100	Programming 1		2	2		ODL	4	14	56
COMP120	Software Engineering Fundamentals		2	2		ODL	4	14	56
COMP213	Web Interface Design		4			ODL	4	14	56
GNED	General Education Elective			3		ODL	3	14	42
MATH175	Functions and Number Systems			3		ODL	3	14	42
								Total	294
Semester 2	Winter 2023 or Summer 2023								
COMM170/171	College Communications 2	P=COMM160 or COMM161		3		ODL	3	14	42
COMP122	Introduction to Database Concepts		2	2		ODL	4	14	56
COMP123	Programming 2	P=COMP100	2	2		ODL	4	14	56
COMP125	Client-Side Web Development	P=COMP100 and COMP213	2	2		ODL	4	14	56
COMP225	Software Requirements Engineering	P=COMP100, and, COMP120 or COMP391	2	2		ODL	4	14	56
COMP301	UNIX/Linux Operating Systems	P=COMP100	2	2		ODL	4	14	56
MATH185	Discrete Mathematics			3		ODL	3	14	42
								Total	364
Break	Summer 2023								
Semester 3	Fall 2023								
COMP214	Advanced Database Concepts	P=COMP122	2	2		ODL	4	14	56
COMP228	Java Programming	P=COMP123	2	2		ODL	4	14	56
COMP229	Web Application Development	P=COMP123 and COMP125	2	2		ODL	4	14	56
COMP246	Software Systems Design	P=COMP123 and COMP225	2	2		ODL	4	14	56
COOP421	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 or COMM171		3		ODL	3	14	42
GNED500	Global Citizenship: from Social Analysis to Social Action			3		ODL	3	14	42
								Total	322
Work Term 1	Winter 2024								
COOP222	Co-op Work Placement 1					ODL			
Semester 4	Summer 2024								
COMP212	Programming 3	P=COMP123	2	2		ODL	4	14	56
COMP216	Networking for Software Developers	P=COMP100	2	2		ODL	4	14	56
COMP254	Data Structures and Algorithms	P=COMP228	2	2		ODL	4	14	56
COMP304	Mobile Apps Development	P=COMP228	2	2		ODL	4	14	56
COMP311	Software Testing and Quality Assurance	P=COMP123	2	2		ODL	4	14	56
MATH210	Linear Algebra and Statistics	P=MATH175 and MATH185	2	2		ODL	4	14	56
								Total	336
Work Term 2	Fall 2024								
COOP331	Co-op Work Placement 2					ODL			
Semester 5	Winter 2025								
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 COMP246	2	2		ODL	4	14	56
COMP303	Enterprise Application Development	P=COMP214 and COMP228	2	2		ODL	4	14	56
COMP308	Emerging Technologies	P=COMP228 and COMP229	2	2		ODL	4	14	56
COMP321	Enterprise Systems Integration	P=COMP246	2	2		ODL	4	14	56
ELECT1	Technical Elective 1		2	1		ODL	3	14	42
								<b>Total</b>	<b>308</b>
<b>Work Term 3</b>		<b>Summer 2025</b>							
COOP332	Co-op Work Placement 3					ODL			
<b>Semester 6</b>		<b>Fall 2025</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		ODL	4	14	56
COMP307	Software Security	P=COMP212 and COMP228	2	2		ODL	4	14	56
COMP309	Data Warehousing and Predictive Analytics	P=COMP214	2	2		ODL	4	14	56
COMP313	Software Development Project 2	P=COMP231 and COMP303 and COMP304, or, COMP231 and COMP381	2	2		ODL	4	14	56
GNED	General Education Elective			3		ODL	3	14	42
								<b>Total</b>	<b>308</b>
<b>Minimum Grade Required: D</b>									
<b>Total Program Hours:</b>								<b>1932</b>	
<b>C = Co-Requisite; P = Pre-Requisite</b>									
<b>Notes:</b>									
◆ This course may be offered in one of the following modalities (Online, Hybrid or Blended)									
◆◆ This course may be offered in a compressed delivery 2 hours per week for a 7 week period.									
<u>Technical Electives:</u>									
COMP367	DevOps Implementation		2	1		ODL	3	14	42
COMP377	AI for Software Developers		2	1		ODL	3	14	42