

MODEL ROUTE

School:	School of Engineering Technology and Applied Science	Program Number:	3442						
Program Title:	Software Engineering Technology - Artificial Intelligence Co-op	Credential:	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate	<input type="checkbox"/> Degree				
			<input type="checkbox"/> Diploma	<input checked="" type="checkbox"/> Advanced Diploma					
Program Delivery Mode:	<input checked="" type="checkbox"/> Co-Op <input checked="" type="checkbox"/> Online <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input type="checkbox"/> Non Co-op	Duration :	<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 3 Semesters					
			<input type="checkbox"/> 4 Semesters	<input checked="" type="checkbox"/> 6 Semesters					
			<input type="checkbox"/> 8 Semesters						
Campus:	ONLINE								
Intake:	Fall 2020 and Winter 2021								
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 2020 or Winter 2021								
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		1	2		ODL	3	14	42
								Total	294
Semester 2	Winter 2021 or Summer 2021								
COMM170/171	College Communications 2	P=COMM160/161		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, COMP213	2	2		ODL	4	14	56
COMP225	Software Engineering Methodologies 1	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 2021)									
Semester 3	Fall 2021								
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
COMP237	Introduction to Artificial Intelligence	C=MATH210 P=COMP123 and MATH175 and MATH185	2	2		ODL	4	14	56
COMP246	Software Systems Design	P=COMP123 and COMP225	2	2		ODL	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
GNED500	Global Citizenship: from Social Analysis to Social Action			3		ODL	3	14	42
MATH210	Linear Algebra and Statistics	P=MATH175 and MATH185	2	2		ODL	4	14	56
								Total	336
Work Term 1 (Winter 2022)									
COOP222	Co-op Work Placement 1					ODL			
Semester 4	Summer 2022								
COMP214	Advanced Database Concepts	P=COMP122	2	2		ODL	4	14	56
COMP216	Networking for Software Developers	P=COMP100	2	2		ODL	4	14	56
COMP247	Supervised Learning	P= COMP228 and COMP237 and MATH210	2	2		ODL	4	14	56
COMP254	Data Structures and Algorithms	P=COMP228	2	2		ODL	4	14	56
COMP311	Software Testing and Quality Assurance	P=COMP123	2	2		ODL	4	14	56
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3		ODL	3	14	42
								Total	322
Work Term 2 (Fall 2022)									
COOP331	Co-op Work Placement 2					ODL			
Semester 5	Winter 2023								

CNET307	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	1	2		ODL	3	14	42
COMP255	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL	3	14	42
COMP258	Neural Networks	P=COMP247 and COMP254	2	2		ODL	4	14	56
COMP261	AI Ethics and Data Governance	P=COMP247 and COMP254	1	2		ODL	3	14	42
COMP264	Cloud Machine Learning	P=COMP247	2	1		ODL	3	14	42
COMP304	Mobile Apps Development	P=COMP228	2	2		ODL	4	14	56
							Total		280
Work Term 3 (Summer 2023)									
COOP332	Co-op Work Placement 3					ODL			
Semester 6 Fall 2023									
COMP251	Big Data Tools for Machine Learning	P=COMP247 and COMP254	2	2		ODL	4	14	56
COMP257	Unsupervised and Reinforcement Learning	P=COMP247 and COMP254	2	2		ODL	4	14	56
COMP262	Natural Language Processing and Recommender Systems	P=COMP247 and COMP254	2	2		ODL	4	14	56
COMP263	Deep Learning	P= COMP258	2	2		ODL	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		ODL	4	14	56
GNED	General Education Elective			3		ODL	3	14	42
							Total		322
Minimum Grade Required: D									
							Total Program Hours:		1918

C = Co-Requisite; P = Pre-Requisite

Notes:
 ♦ This course may be offered in one of the following modalities (Online, Hybrid or Blended)