MODEL ROUTE

School:	School of Engineering Technology and Applied Science	**Program Number:**	3452
Program Title:	**Software Engineering Technology - Artificial Intelligence Co-op, Fast Track**	**Credential:**	☐ Certificate ☐ Graduate Certificate ☐ Degree ☐ Diploma ☑ Advanced Diploma ☐ Centennial College Certificate
Program Delivery Mode:	☑ Co-Op ☑ Online ☑ Fast Track ☐ Hybrid ☐ Non Co-op	**Duration :**	☐ 1 Semesters ☑ 4 Semesters ☐ 2 Semesters ☐ 6 Semesters ☐ 3 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 3	**Fall 2022**								
COMM170/171◈	College Communications 2	P=COMM160 or COMM161		3		ODL	3	14	42
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
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		364
Semester 4	**Winter 2023**								
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
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
							Total		336
Work Term 1	**Summer 2023**								
COOP222◈	Co-op Work Placement 1					ODL			
Work Term 2	**Fall 2023**								
COOP331◈	Co-op Work Placement 2					ODL			
Semester 5	**Winter 2024**								
CNET307◈	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	1	2		ODL	3	14	42

Course	Title	Requisite				Modality		Weeks	Hours
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
Break	**Summer 2024**								
Semester 6	**Fall 2024**								
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 and COMP258	2	2		ODL	4	14	56
COMP263◆	Deep Learning	P= COMP258	2	2		ODL	4	14	56
COMP385 ◆	Artificial Intelligence Capstone Project	P=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:		**1302**

C = Co-Requisite; P = Pre-Requisite

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