

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 2023 and Winter 2024								
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 2023 or Winter 2024								
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 2024 or Summer 2024								
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 2024 or Fall 2024								
COOP222	Co-op Work Placement 1					ODL			
Work Term 2	Fall 2024 or Summer 2025								
COOP331	Co-op Work Placement 2					ODL			
Semester 5	Winter 2025								
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
Break									
Summer 2025									
Semester 6									
Fall 2025									
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)									
◆◆ This course may be offered in a compressed delivery 2 hours per week for a 7 week period.									