MODEL ROUTE

School:	School of Engineering Technology and Applied Science	Program Number:	3472		
Program Title:	**Software Engineering Technology - Artificial Intelligence, Fast Track**	**Credential:**	☐ Certificate ☐ Graduate Certificate ☐ Degree ☐ Diploma ☑ Advanced Diploma		
Program Delivery Mode:	☐ Co-Op ☑ Online ☑ Fast Track ☐ Hybrid ☑ Non Co-op	**Duration :**	☐ 2 Semesters ☐ 3 Semesters ☑ 4 Semesters ☐ 6 Semesters ☐ 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 3	**Fall 2021 or Winter 2022**								
COMM170/171 ◈	College Communications 2	P=COMM160/161		3		ODL	3	14	42
COMP228 ◈	Java Programming	P=COMP123	2	2		ODL	4	14	56
COMP229 ◈	Web Application Development	P=COMP123, COMP125	2	2		ODL	4	14	56
COMP237 ◈	Introduction to Artificial Intelligence	C=MATH210 P=COMP123, MATH175, MATH185	2	2		ODL	4	14	56
COMP246 ◈	Object Oriented Software Engineering	P=COMP123, 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, MATH185	2	2		ODL	4	14	56
							Total		364
Semester 4	**Winter 2021 or Summer 2021**								
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, COMP237, 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=COMM170/171		3		ODL	3	14	42
							Total		322
Break (Summer 2021)									
Semester 5	**Fall 2021**								
CNET307◈	IT Project Management	P=COMM170 or COMM 171, and, CNET229 or COMP246	1	2		ODL	3	14	42
COMP251◈	Big Data Tools for Machine Learning	P=COMP247 and COMP254	2	2		ODL	4	14	56
COMP255◈	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL	3	14	42
COMP257◈	Unsupervised and Reinforcement Learning	P=COMP247 and COMP254	2	2		ODL	4	14	56
COMP258◈	Neural Networks	P=COMP247 and COMP254	2	2		ODL	4	14	56
COMP304◈	Mobile Apps Development	P=COMP228	2	2		ODL	4	14	56
							Total		308

Semester 6	Winter 2022								
COMP261◈	AI Ethics and Data Governance	P=COMP247 and COMP254	1	2		ODL	3	14	42
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
COMP264◈	Cloud Machine Learning	P = COMP247	2	1		ODL	3	14	42
COMP313◈	Software Development Project 2	P= COMP231 and COMP381, or, COMP303 and COMP306, or, COMP305 and COMP391	2	2		ODL	4	14	56
EMPS102◈	Employment Skills 2	P=COMM170 or COMM171		2		ODL	2	14	28
GNED◈	General Education Elective			3		ODL	3	14	42
								Total	322
Minimum Grade Required: D									
							Total Program Hours:		**1316**

C = Co-Requisite; P = Pre-Requisite

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