

MODEL ROUTE

School:

School of Engineering Technology and Applied Science

Program Title:

Software Engineering Technology - Artificial Intelligence, Fast Track

Program Delivery Mode:

☐ Co-Op☐ Online☒ Fast Track☐ Hybrid☒ Non Co-op

Program Number:

3422

Credential:

☐ Certificate☐ Graduate Certificate☐ Degree☐ Diploma☒ Advanced Diploma☐ Centennial College Certificate

Duration :

☐ 1 Semesters☒ 4 Semesters☐ 2 Semesters☐ 6 Semesters☐ 3 Semesters☐ 8 Semesters

Campus:

PROGRESS

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			4	14	56
COMP229	Web Application Development	P=COMP123 and COMP125	2	2			4	14	56
COMP237	Introduction to Artificial Intelligence	C=MATH210 P=COMP123 and MATH175 and MATH185	2	2			4	14	56
COM246	Software Systems Design	P=COMP123 and COMP225	2	2		HYB	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		HYB	4	14	56
								Total	364
Semester 4	Winter 2024 or Summer 2024								
COMP214	Advanced Database Concepts	P=COMP122	2	2			4	14	56
COMP216	Networking for Software Developers	P=COMP100	2	2		HYB	4	14	56
COMP247	Supervised Learning	P= COMP228 and COMP237 and MATH210	2	2			4	14	56
COMP254	Data Structures and Algorithms	P=COMP228	2	2			4	14	56
COMP311	Software Testing and Quality Assurance	P=COMP123	2	2		HYB	4	14	56
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3		ODL	3	14	42
								Total	322
Break	Summer 2024								
Semester 5	Fall 2024								
CNET307	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	1	2		ODL	3	14	42
COMP251	Big Data Tools for Machine Learning	P=COMP247 and COMP254	2	2			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			4	14	56
COMP258	Neural Networks	P=COMP247 and COMP254	2	2			4	14	56
COMP304	Mobile Apps Development	P=COMP228	2	2			4	14	56

Semester 6	Winter 2025							Total	308
COMP261 ♦	AI Ethics and Data Governance	P=COMP247 and COMP254	1	2		HYB	3	14	42
COMP262	Natural Language Processing and Recommender Systems	P=COMP247 and COMP254 and COMP258	2	2			4	14	56
COMP263	Deep Learning	P= COMP258	2	2			4	14	56
COMP264	Cloud Machine Learning	P = COMP247	2	1			3	14	42
COMP385 ♦	Artificial Intelligence Capstone Project	P=COMP246 and COMP258	2	2		HYB	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)									