

# MODEL ROUTE

<b>School:</b>	School of Engineering Technology and Applied Science	<b>Program Number:</b>	3402						
<b>Program Title:</b>	<b>Software Engineering Technology - Artificial Intelligence</b>	<b>Credential:</b>	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate	<input type="checkbox"/> Degree				
			<input type="checkbox"/> Diploma	<input checked="" type="checkbox"/> Advanced Diploma					
<b>Program Delivery Mode:</b>	<input type="checkbox"/> Co-Op <input type="checkbox"/> Online <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Non Co-op	<b>Duration :</b>	<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						
<b>Campus:</b>	<b>Progress</b>								
<b>Intake:</b>	<b>Fall 2020 and Winter 2021</b>								

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
<b>Semester 1    Fall 2020 or Winter 2021</b>									
COMM160/161	College Communications 1			3			3	14	42
COMP100	Programming 1		2	2			4	14	56
COMP120	Software Engineering Fundamentals		2	2			4	14	56
COMP213	Web Interface Design		4				4	14	56
GNED◆	General Education Elective			3		ODL	3	14	42
MATH175	Functions and Number Systems			3			3	14	42
								<b>Total</b>	294
<b>Semester 2    Winter 2021 or Summer 2021</b>									
COMM170/171	College Communications 2	P=COMM160/161		3			3	14	42
COMP122	Introduction to Database Concepts		2	2			4	14	56
COMP123	Programming 2	P=COMP100	2	2			4	14	56
COMP125	Client-Side Web Development	P=COMP100, COMP213	2	2			4	14	56
COMP225◆	Software Engineering Methodologies 1	P=COMP100, and, COMP120 or COMP391	2	2		HYB	4	14	56
COMP301	UNIX/Linux Operating Systems	P=COMP100	2	2			4	14	56
MATH185	Discrete Mathematics			3			3	14	42
								<b>Total</b>	364
<b>Break (Summer 2021)</b>									
<b>Semester 3    Fall 2021</b>									
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
COMP246	Software Systems Design	P=COMP123 and COMP225	2	2			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			4	14	56
								<b>Total</b>	322
<b>Semester 4    Winter 2022</b>									
COMP214	Advanced Database Concepts	P=COMP122	2	2			4	14	56
COMP216	Networking for Software Developers	P=COMP100	2	2			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			4	14	56
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3			3	14	42
								<b>Total</b>	322
<b>Break (Summer 2022)</b>									
<b>Semester 5    Fall 2022</b>									
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			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
							<b>Total</b>		<b>308</b>
<b>Semester 6</b>	<b>Winter 2023</b>								
COMP261	AI Ethics and Data Governance	P=COMP247 and COMP254	1	2			3	14	42
COMP262	Natural Language Processing and Recommender Systems	P=COMP247 and COMP254	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
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		HYB			
							4	14	56
EMPS102	Employment Skills 2	P=COMM170 or COMM171		2			2	14	28
GNED◆	General Education Elective			3		ODL	3	14	42
							<b>Total</b>		<b>322</b>
<b>Minimum Grade Required: D</b>									
								<b>Total Program Hours:</b>	<b>1932</b>

C = Co-Requisite; P = Pre-Requisite

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