

# MODEL ROUTE

<b>School:</b>	School of Engineering Technology and Applied Science	<b>Program Number:</b>	3472						
<b>Program Title:</b>	<b>Software Engineering Technology - Artificial Intelligence, Fast Track</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	<input type="checkbox"/> Centennial College Certificate				
<b>Program Delivery Mode:</b>	<input type="checkbox"/> Co-Op <input checked="" type="checkbox"/> Online <input checked="" type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input checked="" type="checkbox"/> Non Co-op	<b>Duration :</b>	<input type="checkbox"/> 1 Semesters	<input checked="" type="checkbox"/> 4 Semesters					
			<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 6 Semesters					
			<input type="checkbox"/> 3 Semesters	<input type="checkbox"/> 8 Semesters					
<b>Campus:</b>	<b>ONLINE</b>	<b>Department Code:</b>	<b>3515</b>						
<b>Intake:</b>	<b>Fall 2021 and Winter 2022</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
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**Semester 3      Fall 2021 or Winter 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
							<b>Total</b>		<b>364</b>

**Semester 4      Winter 2022 or Summer 2022**

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
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3		ODL	3	14	42
							<b>Total</b>		<b>322</b>

**Break      Summer 2022**

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**Semester 5      Fall 2022**

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		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
							<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	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 COMP303 and COMP304, or, COMP231 and COMP381, or, COMP231 and COMP305 and COMP391, or, COMP246 and COMP258	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
							<b>Total</b>	<b>322</b>
<b>Minimum Grade Required: D</b>								
							<b>Total Program Hours:</b>	<b>1316</b>

C = Co-Requisite; P = Pre-Requisite

**Notes:**

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