		MODEL	. RO	UTE					
School:	School of Engineering Technology and Applied Science	Program Number: 3442							
Program Title:	Software Engineering Technology - Artificial Intelligence Co-op	Credential:	☐ Certificate ☐ Graduate Certificate ☐ Degree ☐ Diploma ☐ Centennial College Certificate						
	☑ Co-Op ☑ Online			☐ 1 Seme	esters \Box	4 Semesters			
Program Delivery Mode:	☐ Fast Track ☐ Hybrid	Duration :		☐ 2 Seme	esters 🗸	6 Semesters			
Wioue.	☐ Non Co-op			☐ 3 Seme	esters \Box	8 Semesters			
Campus:	ONLINE	Department Code:	3515						
Intake:	Fall 2022 and Winter 2023								
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 1	Fall 2022 or Winter 2023								
COMM160/161	College Communications 1			3		ODL	3	14	42
COMP100 �	Programming 1		2	2		ODL	4	14	56
COMP120 ❖	Software Engineering Fundamentals		2	2		ODL ODL	4	14 14	56 56
GNED ♦	Web Interface Design General Education Elective		4	3		ODL	3	14	42
MATH175 ♦	Functions and Number Systems			3		ODL	3	14	42
								Total	294
Semester 2	Winter 2023 or Summer 2023								
COMM170/171�	College Communications 2	P=COMM160 or COMM161		3		ODL	3	14	42
COMP122 ❖	Introduction to Database Concepts		2	2		ODL	4	14	56
COMP123 ❖	Programming 2	P=COMP100	2	2		ODL	4	14	56
COMP125 ❖	Client-Side Web Development	P=COMP100 and COMP213	2	2		ODL	4	14	56
COMP225�	Software Requirements Engineering	P=COMP100, and, COMP120 or COMP391	2	2		ODL	4	14	56
COMP301�	UNIX/Linux Operating Systems	P=COMP100	2	2		ODL	4	14	56
MATH185 ❖	Discrete Mathematics			3		ODL	3	14	42
								Total	364
Break	Summer 2023								
Semester 3	Fall 2023								
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
COOP421��	Employment Preplacement	P=COMM170/171 minimum"C" grade; CGPA 2.5; 80% year 1 courses completed		1		ODL	1	14	14
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	336
Work Term 1	Winter 2024					001			
COOP222 �	Co-op Work Placement 1					ODL			

COMP214	Semester 4	Summer 2024								
COMP216			P=COMP122	2	2		ODI	Δ	14	56
P		·								56
COMP254 ◆ Data Structures and Algorithms P=COMP228 2 2 ODL 4 14 5 COMP311 ◆ Software Testing and Quality Assurance P=COMP123 2 2 0DL 4 14 5 ENGL253 ◆ Advanced Business Communications P=COMM170 or COMM171 3 3 0DL 3 14 4 Work Term 2 Fall 2024 ***********************************	COMP247 ♦		P= COMP228 and COMP237 and							56
COMP311	COMP254 ♦	Data Structures and Algorithms		2	2		ODL	4	14	56
Pack		Software Testing and Quality					-			56
Work Term 2 Fall 2024 COOP 31 ◆ Co-op Work Placement 2 0 0 0 0 0 0 0 0 0 0	ENGL253 �				3		ODL	3		42
Semester 5 Winter 2025 P=COMM170 or COMT255	Work Term 2	Fall 2024							Total	322
Semester 5 Winter 2025 CNET307◆ IT Project Management P=COMM170 or COMM171, and, CNET229 or COMP225 1 2 ODL 3 14 4 COMP255◆ Business and Entrepreneurship for Software Engineering Technology P=COMP225 3 ODL 3 14 4 COMP258◆ Neural Networks P=COMP247 and COMP254 2 2 ODL 4 14 5 COMP261◆ Al Ethics and Data Governance COMP254 1 2 ODL 3 14 4 COMP264◆ Cloud Machine Learning P=COMP247 and COMP254 1 2 ODL 3 14 4 COMP304◆ Mobile Apps Development P=COMP248 2 2 ODL 4 14 5 Work Term 3 Summer 2025 Summer 2025 Co-op Work Placement 3 ODL 4 14 5 COMP330◆ Co-op Work Placement 3 2 2 ODL 4 14 5 COMP251◆ Big Data Tools for Machine Learning Company Percompany Percompan							ODL			
Tr Project Management										
CNET307 ♣ IT Project Management	Semester 5	Winter 2025								
Software Engineering Technology P=COMP225 3 ODL 3 14 4 4 4 5	CNET307 ♦	IT Project Management	COMM171, and,	1	2		ODL	3	14	42
COMP258	COMP255�		P=COMP225	3			ODL	3	14	42
COMP261	COMP258�	Neural Networks		2	2		ODL	4	14	56
COMP304♦ Mobile Apps Development P=COMP228 2 2 ODL 4 14 5 Work Term 3 Summer 2025 COOP332 ♦ Co-op Work Placement 3 ODL Semester 6 Fall 2025 COMP251♦ Big Data Tools for Machine Learning COMP254 P=COMP247 and COMP254 2 2 ODL 4 14 5 COMP257♦ Unsupervised and Reinforcement Learning P=COMP247 and COMP254 2 2 ODL 4 14 5 COMP262♦ Natural Language Processing and Recommender Systems P=COMP247 and COMP254 and COMP254 and COMP258 2 2 ODL 4 14 5 COMP263♦ Deep Learning P=COMP258 2 2 ODL 4 14 5 COMP385♦ Artificial Intelligence Capstone Project P=COMP246 and COMP258 2 2 ODL 4 14 5 GNED♦ General Education Elective 3 ODL 3 14 4	COMP261�	Al Ethics and Data Governance		1	2		ODL	3	14	42
Work Term 3 Summer 2025 COOP332 ◆ Co-op Work Placement 3 ODL Semester 6 Fall 2025 COMP251 ◆ Big Data Tools for Machine Learning COMP254 2 2 ODL 4 14 5 COMP257 ◆ Unsupervised and Reinforcement Learning COMP254 2 2 ODL 4 14 5 COMP257 ◆ Natural Language Processing and Recommender Systems P=COMP247 and COMP254 and COMP254 and COMP254 and COMP258 2 2 ODL 4 14 5 COMP263 ◆ Deep Learning P= COMP258 2 2 ODL 4 14 5 COMP365 ◆ Artificial Intelligence Capstone Project COMP258 2 2 ODL 4 14 5 GNED ◆ General Education Elective 3 ODL 3 14 4			P=COMP247					3		42
Work Term 3 Summer 2025 COOP332 ◆ Co-op Work Placement 3 ODL Semester 6 Fall 2025 COMP251 ◆ Big Data Tools for Machine Learning COMP254 2 2 ODL 4 14 5 COMP257 ◆ Unsupervised and Reinforcement Learning P=COMP247 and COMP254 2 2 ODL 4 14 5 COMP262 ◆ Natural Language Processing and Recommender Systems P=COMP247 and COMP254 and COMP258 2 2 ODL 4 14 5 COMP263 ◆ Deep Learning P= COMP258 2 2 ODL 4 14 5 COMP385 ◆ Artificial Intelligence Capstone Project COMP258 2 2 ODL 4 14 5 GNED ◆ General Education Elective 3 ODL 3 14 4	COMP304◆	Mobile Apps Development	P=COMP228	2	2		ODL	4		56
COOP332 ♦ Co-op Work Placement 3 ODL Semester 6 Fall 2025 COMP251 ♦ Big Data Tools for Machine Learning COMP254 Dursupervised and Reinforcement Learning COMP254 Dursupervised and Reinforcement COMP254 Dursupervised and Recompage Processing and COMP254 Dursupervised and Recompage Processing and COMP254 and COMP258 Dursupervised COMP									Total	280
Semester 6 Fall 2025 COMP251 ★ Big Data Tools for Machine Learning COMP254 2 2 ODL 4 14 5 COMP257 ★ Unsupervised and Reinforcement Learning P=COMP247 and COMP254 2 2 ODL 4 14 5 COMP262 ★ Natural Language Processing and Recommender Systems P=COMP247 and COMP254 and COMP254 and COMP258 2 2 ODL 4 14 5 COMP263 ★ Deep Learning P= COMP258 2 2 ODL 4 14 5 COMP385 ★ Artificial Intelligence Capstone Project COMP258 2 2 ODL 4 14 5 GNED ★ General Education Elective 3 ODL 3 14 4			1			-			-	
COMP251♦ Big Data Tools for Machine Learning	COOP332 ◆	Co-op Work Placement 3					ODL			
COMP251 Big Data Tools for Machine Learning COMP254 COMP257 Unsupervised and Reinforcement Learning COMP254 COMP254 COMP255 Dear Learning COMP254 COMP254 COMP254 COMP254 COMP254 COMP254 COMP254 COMP254 COMP254 COMP254 and COMP254 COMP258 COMP263 Deep Learning P=COMP258 COMP258 CO	Semester 6	Fall 2025								
COMP257 Learning COMP254 2 2 ODL 4 14 5 S COMP262 Natural Language Processing and Recommender Systems P=COMP247 and COMP254 and COMP258 2 2 ODL 4 14 5 S COMP263 Deep Learning P= COMP258 2 2 ODL 4 14 5 S COMP385 Artificial Intelligence Capstone Project COMP258 2 2 ODL 4 14 5 S COMP385 General Education Elective 3 ODL 3 14 4	COMP251�	Big Data Tools for Machine Learning		2	2		ODL	4	14	56
COMP262 Natural Language Processing and Recommender Systems COMP254 and COMP258 COMP263 Deep Learning P= COMP258 COMP258 P=COMP258 P=COMP246 and COMP258 COMP258 Artificial Intelligence Capstone Project COMP258 COMP258 P=COMP246 and COMP258 COMP258 Artificial Intelligence Capstone Project COMP258 COMP258 Dodu 4 14 55 COMP258 COMP258 ODL 4 14 55 COMP258 General Education Elective 3 ODL 3 14 4	COMP257�			2	2		ODL	4	14	56
COMP385 Artificial Intelligence Capstone Project COMP258 2 2 ODL 4 14 5 GNED General Education Elective 3 ODL 3 14 4	COMP262�		COMP254 and	2	2		ODL	4	14	56
COMP385 Artificial Intelligence Capstone Project COMP258 2 2 ODL 4 14 5 GNED General Education Elective 3 ODL 3 14 4	COMP263�	Deep Learning	P= COMP258	2	2		ODL	4	14	56
	COMP385 ♦	Artificial Intelligence Capstone Project		2	2		ODL	4	14	56
T.1.1 20	GNED�	General Education Elective			3		ODL	3	14	42
I OTAL 52									Total	322

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Total Program Hours:

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.