

# MODEL ROUTE

<b>School:</b>	School of Engineering Technology and Applied Science	<b>Program Number:</b>	3618						
<b>Program Title:</b>	<b>Health Informatics Technology Co-op</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 checked="" type="checkbox"/> Co-Op <input checked="" type="checkbox"/> Online <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input type="checkbox"/> Non Co-op	<b>Duration :</b>	<input type="checkbox"/> 1 Semesters <input type="checkbox"/> 4 Semesters <input type="checkbox"/> 2 Semesters <input checked="" 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
<b>Semester 1</b>	<b>Fall 2021 or Winter 2022</b>								
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	4	14	56
COMP213	Web Interface Design		4			ODL	4	14	56
GNED	General Education Elective			3		ODL	3	14	42
MATH175	Functions and Number Systems			3		ODL	3	14	42
								<b>Total</b>	294
<b>Semester 2</b>	<b>Winter 2022 or Summer 2022</b>								
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
COMP380	Structure of HCIS	P=COMP120	2	2		ODL	4	14	56
								<b>Total</b>	378
<b>Break</b>	<b>Summer 2022</b>								
<b>Semester 3</b>	<b>Fall 2022</b>								
COMP214	Advanced Database Concepts	P=COMP122	2	2		ODL	4	14	56
COMP229	Web Application Development	P=COMP123 and COMP125	2	2		ODL	4	14	56
COMP246	Software Systems Design	P=COMP123 and COMP225	2	2		ODL	4	14	56
COMP381	Tools, Algorithms and Methods for HCIS	C=COMP214; P=COMP123	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
MATH185	Discrete Mathematics		1	2		ODL	3	14	42
								<b>Total</b>	322
<b>Work Term 1</b>	<b>Winter 2023</b>								
COOP222	Co-op Work Placement 1					ODL			
<b>Semester 4</b>	<b>Summer 2023</b>								
COMP212	Programming 3	P=COMP123	2	2		ODL	4	14	56

COMP228 ♦	Java Programming	P=COMP123	2	2		ODL	4	14	56
COMP311 ♦	Software Testing and Quality Assurance	P=COMP123	2	2		ODL	4	14	56
COMP387 ♦	Clinical Workflow and IT Solutions		2	1		ODL	3	14	42
ENGL253 ♦	Advanced Business Communications	P=COMM170 or COMM171		3		ODL	3	14	42
MATH210 ♦	Linear Algebra and Statistics	P=MATH175 and MATH185	2	2		ODL	4	14	56
								<b>Total</b>	308
Work Term 2		<b>Fall 2023</b>							
COOP331 ♦	Co-op Work Placement 2					ODL			
Semester 5		<b>Winter 2024</b>							
CNET307 ♦	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	1	2		ODL	3	14	42
COMP216 ♦	Networking for Software Developers	P=COMP100	2	2		ODL	4	14	56
COMP231 ♦	Software Development Project 1	P=COMP228 and COMP229 and COMP246	2	2		ODL	4	14	56
COMP254 ♦	Data Structures and Algorithms	P=COMP228	2	2		ODL	4	14	56
COMP304 ♦	Mobile Apps Development	P=COMP228	2	2		ODL	4	14	56
COMP388 ♦	Health Care Data Analytics and Cloud Computing	P=COMP254 and COMP381	2	2		ODL	4	14	56
								<b>Total</b>	322
Work Term 3		<b>Summer 2024</b>							
COOP332 ♦	Co-op Work Placement 3								
Semester 6		<b>Fall 2024</b>							
COMP255 ♦	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL	3	14	42
COMP309 ♦	Data Warehousing and Predictive Analytics	P=COMP214	2	2		ODL	4	14	56
COMP313 ♦	Software Development Project 2	P=COMP231 and COMP303 and COMP304, or, COMP231 and COMP381	2	2		ODL	4	14	56
COMP383 ♦	Data Security and Privacy Policies in HCIS	P=COMP380	2	2		ODL	4	14	56
COMP384 ♦	Telehealth	P=COMP381	2	2		ODL	4	14	56
GNED ♦	General Education Elective			3		ODL	3	14	42
								<b>Total</b>	308
<b>Minimum Grade Required: D</b>									
<b>Total Program Hours:</b>								<b>1932</b>	
<b>C = Co-Requisite; P = Pre-Requisite</b>									
<b>Notes:</b>									
♦This course may be offered in one of the following modalities (Online, Hybrid or Blended)									