MODEL ROUTE

School:	School of Engineering Technology and Applied Science	Program Number:	3638

Program Title:	**Health Informatics Technology Co-op, Fast Track**	Credential:	☐ Certificate ☐ Graduate Certificate ☐ Degree ☐ Diploma ☑ Advanced Diploma

Program Delivery Mode:	☑ Co-Op ☑ Online ☑ Fast Track ☐ Hybrid ☐ Non Co-op	Duration :	☐ 2 Semesters ☐ 3 Semesters ☑ 4 Semesters ☐ 6 Semesters ☐ 8 Semesters

Campus:	**ONLINE**

Intake:	**Fall 2020 and Winter 2021**

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 2020 or Winter 2021**								
COMM170/171 ◈	College Communications 2			3		ODL	3	14	42
COMP123 ◈	Programming 2	P=COMP100	2	2		ODL	4	14	56
COMP214◈	Advanced Database Concepts	P=COMP122	2	2		ODL	4	14	56
COMP246 ◈	Object Oriented Software Engineering	P=COMP123, COMP225	2	2		ODL	4	14	56
COMP381◈	Tools, Algorithms and Methods for HCIS	C=COMP214; P=COMP123	2	2		ODL	4	14	56
GNED500◈	Global Citizenship: from Social Analysis to Social Action			3		ODL	3	14	42
							Total		308
Semester 4	**Winter 2021 or Summer 2021**								
COMP212 ◈	Programming 3	P=COMP123	2	2		ODL	4	14	56
COMP228 ◈	Java Programming	P=COMP123	2	2		ODL	4	14	56
COMP229 ◈	Web Application Development	P=COMP123, COMP125	2	2		ODL	4	14	56
COMP311 ◈	Software Testing and Quality Assurance	P=COMP123	2	2		ODL	4	14	56
COMP380◈	Structure of HCIS	P=COMP120	2	2		ODL	4	14	56
COOP321/421◈	Employment Preplacement	P=COMM170/171 minimum"C" grade; CGPA 2.5; 80% year 1 courses completed		1		ODL	1	14	14
MATH210 ◈	Linear Algebra and Statistics	P=MATH175, MATH185	2	2		ODL	4	14	56
							Total		350
Work Term 1 (Summer 2021 or Fall 2021)									
COOP222 ◈	Co-op Work Placement 1					ODL			
Work Term 2 (Fall 2021 or Summer 2022)									
COOP331 ◈	Co-op Work Placement 2					ODL			
Semester 5	**Winter 2022**								
CNET307◈	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	1	2		ODL	3	14	42
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

Course	Name	Requisite							Total
COMP321◈	Systems Integration	P=COMP246 and ENGL253	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
								Total	350
Break (Summer 2022)									
Semester 6	**Fall 2022**								
COMP216 ◈	Networking for Software Developers	P=COMP100	2	2		ODL	4	14	56
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, or, COMP231 and COMP305 and COMP391, or, COMP246 and COMP258	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
								Total	364
Minimum Grade Required: D									
							Total Program Hours:		**1372**

C = Co-Requisite; P = Pre-Requisite

Notes:

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