

MODEL ROUTE

School:	School of Engineering Technology and Applied Science	Program Number:	0131						
Program Title:	Honours Bachelor of Information Technology (Computer and Communication Networks)	Credential:	<input type="checkbox"/> Certificate	<input type="checkbox"/> Graduate Certificate	<input checked="" type="checkbox"/> Degree				
			<input type="checkbox"/> Diploma	<input type="checkbox"/> Advanced Diploma	<input type="checkbox"/> Centennial College Certificate				
Program Delivery Mode:	<input type="checkbox"/> Co-Op <input type="checkbox"/> Online <input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid <input type="checkbox"/> Non Co-op	Duration :	<input type="checkbox"/> 1 Semesters	<input type="checkbox"/> 4 Semesters					
			<input type="checkbox"/> 2 Semesters	<input type="checkbox"/> 6 Semesters					
			<input type="checkbox"/> 3 Semesters	<input checked="" type="checkbox"/> 8 Semesters					
Campus:	PROGRESS	Department Code:	3613						
Intake:	Fall 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 1	Fall 2021								
BUS100	Introduction to Business			3			3	14	42
ENG115	The Power of Communications			3			3	14	42
MTH130	Applied Mathematics			3			3	14	42
NET110	Introduction to Computer Networks		2	2			4	14	56
NET111	Operating Systems		1	2			3	14	42
SWS110	Introduction to Programming		2	2			4	14	56
							Total		280
Semester 2	Winter 2022								
BUS150	Organizational Behaviour	P=BUS100		3			3	14	42
MTH116	Statistics			3			3	14	42
MTH160	Calculus	P=MTH130		3			3	14	42
NET112	Computer Architecture	P=NET111	1	2			3	14	42
NET120	Introduction to Switching and Routing	P=NET110	4				4	14	56
SWS120	Object Oriented Programming	P=SWS110	2	2			4	14	56
							Total		280
Break	Summer 2022								
Semester 3	Fall 2022								
BUS140	Management Principles and Practices	P=BUS150 and ENG115		3			3	14	42
GCE215 	Global Citizenship & Equity: World Hunger			3		ODL	3	14	42
NET212	Windows Server Operating System	P=NET111	2	2			4	14	56
NET224	Advanced Switching and Routing	P=NET120	2	2			4	14	56
REA215	Fundamentals of Research			3			3	14	42
SWS213	Database Design and Modeling	P=SWS110	4				4	14	56
							Total		294
Semester 4	Winter 2023								
NET211	Unix/Linux Operating Systems	P=NET212	2	2			4	14	56
NET220	Computer and Network Security	P=NET212 and NET224	2	2			4	14	56
NET221	Wireless Communication Systems	P=MTH116 and MTH160	2	2			4	14	56
PHL215	Ethics for a Plural World			3			3	14	42
SWS212	Server-Side Scripting	P=SWS120	4				4	14	56
WRK221	Employment Preplacement 1	P=See notes.		2			2	14	28
							Total		294
Work Term*	Summer 2023								
WRK222	Work Placement 1	P=WRK221			35		35	14	490
Semester 5	Fall 2023								

BUS320	Project Management	P=BUS140		3			3	14	42
NET312	System Scripting	P=NET211 and SWS212	2	2			4	14	56
NET324	Voice Systems and Services	P=NET221	2	2			4	14	56
NET326	Wireless Networks	P=NET221	2	2			4	14	56
SOC999	Social Science Elective			3			3	14	42
							Total		252
Semester 6	Winter 2024								
BUS230	Business Analysis	P=BUS140 and BUS150		3			3	14	42
HUM999	Humanities Elective			3			3	14	42
NAT999	Natural Science Elective			3			3	14	42
NET323	Converged Networks	P=NET224 and NET324	2	2			4	14	56
NET325	Virtualization and Cloud Infrastructure	P=NET211 and NET324	2	2			4	14	56
NET361	Applied Research Techniques and Methods	P=MTH116 and MTH160 and REA215		3			3	14	42
							Total		280
Break	Summer 2024								
Semester 7	Fall 2024								
ART999	Arts Elective			3			3	14	42
BUS340	Law and Ethics for Information Technology	P=BUS230 and ENG115		3		ODL	3	14	42
ELECT1	Technical Elective 1		2	2			4	14	56
NET410	Enterprise Network Design	P=NET323 and NET324 and NET326		2			2	14	28
NET411	Project 1	P=NET323 and NET325 and NET361	3				3	14	42
PHL999	Philosophy Elective			3			3	14	42
							Total		252
Semester 8	Winter 2025								
ELECT2	Technical Elective 2		2	2			4	14	56
ELECT3	Technical Elective 3		2	2			4	14	56
NET420	Network Analysis and Troubleshooting	P=NET224 and NET323	2	2			4	14	56
NET421	Project 2	P=NET411	4				4	14	56
NET425	Network Management	P=NET224 and NET323 and NET326	1	2			3	14	42
							Total		266
Minimum Grade Required: D									
								Total Program Hours:	2198
C = Co-Requisite; P = Pre-Requisite									
Notes:									
WRK221: P= ENG115 minimum "C" grade, CGPA 2.0, 80% year 1 and year 2 courses completed.									
◆This course may be offered in one of the following modalities (Online, Hybrid or Blended)									
* The Work Term is a mandatory requirement to graduate and must be completed prior to entering Semester 8. Students will require advising to progress to Semester 5 or further with an unmet Work Term requirement.									
<u>Technical Electives:</u>									
NET801	Cryptography in Network Security	P=NET220	2	2			4	14	56
NET802	Network Defense and Counter Measure	P=NET220	2	2			4	14	56
NET803	Computer Forensics	P=NET220	2	2			4	14	56
NET804	Cloud Security	P=NET325	2	2			4	14	56
NET901	Programming for Wireless Devices	P=NET326	2	2			4	14	56
NET902	Cellular Networks	P=NET326	2	2			4	14	56
NET903	Wireless Broadband	P=NET902	2	2			4	14	56
NET422	Mobile Operating Systems	P=NET320 and SWS120	2	2			4	14	56
<u>Liberal Electives:</u>									
ART411	Film Art in the Internet Age			3			3	14	42

ART412	Conceptual Art and Cultural Change	3	3	14	42
ART413	Performance and Technology	3	3	14	42
ART414	21st Century Visual Culture	3	3	14	42
HUM311	Critical Approaches to Popular Culture	3	3	14	42
HUM312	Indigenous Peoples: a Global Perspective	3	3	14	42
HUM313	Caribbean Literature	3	3	14	42
HUM314	Visionaries, Revolutionaries, and Reactionaries: Global Issues in the 21st Century	3	3	14	42
HUM315	The Self and Self-Knowledge	3	3	14	42
NAT321	Chemistry of Pollutants: Impacts & Solutions	3	3	14	42
NAT322	Food Chemistry: From Crop to Consumption	3	3	14	42
NAT323	Global Perspectives on the Human Immune System	3	3	14	42
PHL402	Logic, Critical Thinking, and Communication	3	3	14	42
PHL403	Science and Religion in Modern Western Civilization	3	3	14	42
PHL404	Human Genomics	3	3	14	42
SOC301	Sociology of Deviance	3	3	14	42
SOC302	Consumer Behaviour: Why We Buy What We Buy	3	3	14	42
SOC303	Psychology: The Interplay of Genetics, Physiology, and Environment in the Determination of Behaviour	3	3	14	42
SOC304	Human Geography: Migration and Globalization	3	3	14	42
SOC305	Media, Culture, & Society	3	3	14	42
SOC306	Contemporary Canadian Society	3	3	14	42