MODEL ROUTE										
School:	School of Engineering Technology and Applied Science	Program Number:	3619							
Program Title:	Game - Programming Co-op	Credential:	☐ Certificate ☐ Graduate Certificate ☐ Degree ☐ Diploma ☐ Centennial College Certificate							
Program Delivery Mode:	✓ Co-Op ✓ Online  ☐ Fast Track ☐ Hybrid ☐ Non Co-op	Duration :		1 Seme	esters 🗸	4 Semesters 6 Semesters 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 <b>♦</b>	Programming 1		2	2		ODL	4	14	56	
COMP213 �	Web Interface Design		4			ODL	4	14	56	
COMP391 <b>♦</b>	Introduction to Game and Simulation		2	2		ODL	4	14	56	
GNED <b>♦</b>	General Education Elective			3		ODL	3	14	42	
MATH175 ❖	Functions and Number Systems			3		ODL	3	14	42	
Semester 2	Winter 2023 or Summer 2023							Total	294	
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 <b>♦</b>	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	
COMP253�	Assets for Game Developers	P=COMP391	2	2		ODL	4	14	56	
COMP301�	UNIX/Linux Operating Systems	P=COMP100	2	2		ODL	4	14	56	
Break	Summer 2023							Total	378	
Semester 3	Fall 2023	D 0014D:22	-		I					
COMP228 <b>♦</b>	Java Programming Web Application Development	P=COMP123 P=COMP123 and COMP125	2	2		ODL	4	14	56	
COMP246 <b>♦</b>	Software Systems Design	P=COMP123 and COMP225	2	2		ODL	4	14	56	
COMP305 <b>♦</b>	Game Programming 1	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			3		ODL	3	14	42	
Manda Taran	Minter 2024							Total	322	
Work Term 1 COOP222�	Winter 2024 Co-op Work Placement 1					ODL				
COOF ZZZ 🔻	CO OP WORK FIREITETT					ODL				
Semester 4	Summer 2024									
COMP217 <b>♦</b>	C++ for Game Development	P=COMP123	2	2		ODL	4	14	56	

COMP254 �	Data Structures and Algorithms	P=COMP228	2	2		ODL	4	14	56
COMP311 <b>♦</b>	Software Testing and Quality Assurance	P=COMP123	2	2		ODL	4	14	56
COMP397 <b>◆</b>	Web Game Programming	P=COMP123	1	2		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		НҮВ	4	14	56
Work Term 2	Fall 2024							Total	308
COOP331	Co-op Work Placement 2					ODL			
COOF331.	CO-Op WOLK Placement 2					ODL			
Semester 5	Winter 2025								
COMP256�	Special Topics in Interactive Gaming	P=COMP305	3			ODL	3	14	42
COMP280 <b>♦</b>	Multiplayer Game Development	P=COMP123 and COMP217	2	2		ODL	4	14	56
COMP290 <b>♦</b>	Game Development Project 1	P=COMP229 and COMP246 and COMP305	2	2		ODL	4	14	56
COMP304◆	Mobile Apps Development	P=COMP228	2	2		ODL	4	14	56
COMP308 <b>♦</b>	Emerging Technologies	P=COMP228 and COMP229	2	2		ODL	4	14	56
COMP392 <b>♦</b>	Advanced Graphics	P=-COMP217 and COMP305	2	2		ODL	4	14	56
COMP395 <b>♦</b>	Simulation Design	P=COMP305 and COMP391	2	2		ODL	4	14	56
								Total	378
Work Term 3	Summer 2025								
COOP332�	Co-op Work Placement 3								
Semester 6	Fall 2025								
Semester 0									
CNET307�	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP246	1	2		ODL	3	14	42
COMP390 <b>�</b>	Game Development Project 2	P=COMP231 and COMP305 and COMP391, or, COMP280 and COMP290	2	2		ODL	4	14	56
COMP394 <b>♦</b>	Practical Game Design	P=COMP305 and COMP391	2	2		ODL	4	14	56
COMP396 <b>♦</b>	Game Programming 2	P=COMP305 and COMP391	2	2		ODL	4	14	56
GNED�	General Education Elective			3		ODL	3	14	42
								Total	252
Minimum Grade Required: D									

**Total Program Hours:** 

1932

## C = Co-Requisite; P = Pre-Requisite

## Notes:

<sup>♦</sup> This course may be offered in one of the following modalities (Online, Hybrid or Blended)

<sup>♦♦</sup> This course may be offered in a compressed delivery 2 hours per week for a 7 week period.