MODEL ROUTE

School:	School of Engineering Technology and Applied Science	**Program Number:**	3639

Credential:

☐ Certificate ☐ Graduate Certificate ☐ Degree
☐ Diploma ☑ Advanced Diploma ☐ Centennial College Certificate

Program Title:	**Game - Programming Co-op, Fast Track**

Program Delivery Mode:

☑ Co-Op ☑ Online
☑ Fast Track ☐ Hybrid
☐ Non Co-op

Duration :

☐ 1 Semesters ☑ 4 Semesters
☐ 2 Semesters ☐ 6 Semesters
☐ 3 Semesters ☐ 8 Semesters

Campus:	**ONLINE**	**Department Code:**	**3515**
Intake:	**Fall 2021 and Winter 2022**		

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 2021 or Winter 2022**								
COMM170/171 ◈	College Communications 2			3		ODL	3	14	42
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
COMP246 ◈	Software Systems Design	P=COMP123 and COMP225	2	2		ODL	4	14	56
COMP253◈	Assets for Game Developers	P=COMP391	2	2		ODL	4	14	56
COMP391 ◈	Introduction to Game and Simulation	P=COMP100	2	2		ODL	4	14	56
GNED500◈	Global Citizenship: from Social Analysis to Social Action			3		ODL	3	14	42
							Total		364
Semester 4	**Winter 2022 or Summer 2022**								
COMP217◈	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
COMP305◈	Game Programming 1	P=COMP123	2	2		ODL	4	14	56
COMP311 ◈	Software Testing and Quality Assurance	P=COMP123	2	2		ODL	4	14	56
COMP397 ◈	Web Game Programming	P=COMP123 or COMP225	2	1		ODL	3	14	42
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 and MATH185	2	2		ODL	4	14	56
							Total		336
Work Term 1	**Summer 2022 or Fall 2022**								
COOP222 ◈	Co-op Work Placement 1					ODL			
Work Term 2	**Fall 2022 or Summer 2023**								
COOP331 ◈	Co-op Work Placement 2					ODL			
Semester 5	**Winter 2023**								
COMP231◈	Software Development Project 1	P=COMP228 and COMP229 and COMP246	2	2		ODL	4	14	56
COMP256◈	Special Topics in Interactive Gaming	P=COMP305	3			ODL	3	14	42
COMP304◈	Mobile Application Development	P=COMP228	2	2		ODL	4	14	56
COMP308◈	Emerging Technologies	P=COMP228 and COMP229	2	2		ODL	4	14	56
COMP392◈	Advanced Graphics	P=COMP217, and, COMP305	2	2		ODL	4	14	56

Course	Title	Prerequisite									
COMP395◈	Simulation Design	P=COMP305 and COMP391	2	2				ODL	4	14	56
ENGL253 ◈	Advanced Business Communications	P=COMM170 or COMM171		3				ODL	3	14	42
									Total		364
Break	**Summer 2023**										
Semester 6	**Fall 2023**										
CNET307◈	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP246	1	2				ODL	3	14	42
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
COMP394◈	Practical Game Design	P=COMP305 and COMP391	2	2				ODL	4	14	56
COMP396◈	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:			**1316**

C = Co-Requisite; P = Pre-Requisite

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