MODEL ROUTE

School:	School of Engineering Technology and Applied Science	**Program Number:**	3119
Program Title:	**Game - Programming Co-op**	**Credential:**	☐ Certificate ☐ Graduate Certificate ☐ Degree ☐ Diploma ☑ Advanced Diploma ☐ Centennial College Certificate
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:	**PROGRESS**	**Department Code:**	**3515**
Intake:	**Fall 2023 and Winter 2024**		

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 2023 or Winter 2024**								
COMM160/161 ◈	College Communications 1			3		ODL	3	14	42
COMP100	Programming 1		2	2			4	14	56
COMP213	Web Interface Design		4				4	14	56
COMP391	Introduction to Game and Simulation		2	2			4	14	56
GNED ◈	General Education Elective			3		ODL	3	14	42
MATH175 ◈	Functions and Number Systems			3		ODL	3	14	42
							Total		294
Semester 2	**Winter 2024 or Summer 2024**								
COMM170/171◈	College Communications 2	P=COMM160 or COMM161		3		ODL	3	14	42
COMP122	Introduction to Database Concepts		2	2			4	14	56
COMP123	Programming 2	P=COMP100	2	2			4	14	56
COMP125	Client-Side Web Development	P=COMP100 and COMP213	2	2			4	14	56
COMP225◈	Software Requirements Engineering	P=COMP100, and, COMP120 or COMP391	2	2		HYB	4	14	56
COMP253	Assets for Game Developers	P=COMP391	2	2			4	14	56
COMP301	UNIX/Linux Operating Systems	P=COMP100	2	2			4	14	56
							Total		378
Break	**Summer 2024**								
Semester 3	**Fall 2024**								
COMP228	Java Programming	P=COMP123	2	2			4	14	56
COMP229	Web Application Development	P=COMP123 and COMP125	2	2			4	14	56
COMP246	Software Systems Design	P=COMP123 and COMP225	2	2			4	14	56
COMP305	Game Programming 1	P=COMP123	2	2			4	14	56
COOP321◈◈	Employment Preplacement	P=COMM160/161 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
							Total		322
Work Term 1	**Winter 2025**								
COOP222	Co-op Work Placement 1								
Semester 4	**Summer 2025**								
COMP217	C++ for Game Development	P=COMP123	2	2			4	14	56

Code	Course	Prereq								
COMP254	Data Structures and Algorithms	P=COMP228	2	2				4	14	56
COMP311◈	Software Testing and Quality Assurance	P=COMP123	2	2		HYB		4	14	56
COMP397◈	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		HYB		4	14	56
									Total	308
Work Term 2	**Fall 2025**									
COOP331	Co-op Work Placement 2									
Semester 5	**Winter 2026**									
COMP256	Special Topics in Interactive Gaming	P=COMP305	3					3	14	42
COMP280	Multiplayer Game Development	P=COMP123 and COMP217	2	2				4	14	56
COMP290	Game Development Project 1	P=COMP229 and COMP246 and COMP305	2	2				4	14	56
COMP304	Mobile Apps Development	P=COMP228	2	2				4	14	56
COMP308	Emerging Technologies	P=COMP228 and COMP229	2	2				4	14	56
COMP392	Advanced Graphics	P= COMP217 and COMP305	2	2				4	14	56
COMP395	Simulation Design	P=COMP305 and COMP391	2	2				4	14	56
									Total	378
Work Term 3	**Summer 2026**									
COOP332	Co-op Work Placement 3									
Semester 6	**Fall 2026**									
CNET307◈	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	1	2		ODL		3	14	42
COMP390	Game Development Project 2	P=COMP231 and COMP305 and COMP391, or, COMP280 and COMP290	2	2				4	14	56
COMP394	Practical Game Design	P=COMP305 and COMP391	2	2				4	14	56
COMP396	Game Programming 2	P=COMP305 and COMP391	2	2				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:

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

◈◈ This course may be offered in a compressed delivery 2 hours per week for a 7 week period.