## **MODEL ROUTE** School of Engineering Technology and 3119 School: **Program Number: Applied Science** Certificate ☐ Graduate Certificate Degree **Program Title: Game - Programming Co-op** Credential: ☐ Centennial College Certificate Diploma ✓ Advanced Diploma ✓ Co-Op Online 4 Semesters ☐ 1 Semesters **Program Delivery** Fast Track Hybrid **Duration:** 2 Semesters ✓ 6 Semesters Mode: ☐ Non Co-op 3 Semesters 8 Semesters Campus: **PROGRESS Department Code:** 3515 Fall 2023 and Winter 2024 Intake: Total Course Field Delivery Course Hrs Co/Pre Requisite Lab Lecture Weeks Course Code Course Title Placement ODL=Online (Lab + **Total Hours** (Course Code) (14)Hours Hours Hours BLD=Blended Lecture + HYB = Hybrid Field) Fall 2023 or Winter 2024 Semester 1 COMM160/161 College Communications 1 3 3 14 42 COMP100 2 4 14 Programming 1 2 56 COMP213 Web Interface Design 4 4 14 56 COMP391 Introduction to Game and Simulation 2 2 4 14 56 3 3 14 42 **GNED General Education Elective** 3 3 MATH175 **Functions and Number Systems** 14 42 294 Total Semester 2 Winter 2024 or Summer 2024 P=COMM160 or COMM170/171 College Communications 2 3 COMM161 14 3 42 COMP122 Introduction to Database Concepts 2 2 4 14 56 COMP123 Programming 2 P=COMP100 2 2 4 14 56 P=COMP100 and COMP125 Client-Side Web Development COMP213 2 2 4 14 56 P=COMP100, and, COMP225 Software Requirements Engineering COMP120 or COMP391 2 2 HYB 4 14 56 COMP253 2 4 Assets for Game Developers P=COMP391 2 14 56 COMP301 **UNIX/Linux Operating Systems** P=COMP100 2 2 4 14 56 Total 378 Summer 2024 **Break** Fall 2024 Semester 3 COMP228 Java Programming P=COMP123 2 2 4 14 56 P=COMP123 and COMP229 Web Application Development 2 2 COMP125 4 14 56 P=COMP123 and 2 2 COMP246 Software Systems Design COMP225 4 14 56 COMP305 2 P=COMP123 2 4 14 56 Game Programming 1 P=COMM170/171 minimum"C" grade; ODL COOP321/421� **Employment Preplacement** 1 CGPA 2.5; 80% year 1 courses completed 14 14 1 Global Citizenship: from Social Analysis 3 GNED500 3 to Social Action 14 42

3

2

2

3

4

**Total** 

14

14

42 322

56

**MATH185** 

Work Term 1 COOP222

Semester 4

COMP217

**Discrete Mathematics** 

Co-op Work Placement 1

C++ for Game Development

P=COMP123

Winter 2025

Summer 2025

COMP311	Software Testing and Quality Assurance	P=COMP123	2	2		4	14	56
COMP397	Web Game Programming	P=COMP123	2	1		3	14	42
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3		3	14	42
MATH210	Linear Algebra and Statistics	P=MATH175 and MATH185	2	2		4	14	56
							Total	308
Work Term 2	Fall 2025							
COOP331	Co-op Work Placement 2							
Compostor F	Winter 2026							
Semester 5 COMP216	Networking for Software Developers	P=COMP100	2	2		4	14	56
COMP231�	Software Development Project 1	P=COMP228 and COMP229 and COMP246	2	2	НҮВ	4	14	56
COMP256	Special Topics in Interactive Gaming	P=COMP305	3			3	14	42
COMP304	Mobile Apps Development	P=COMP228	2	2		4	14	56
COMP308	Emerging Technologies	P=COMP228 and COMP229	2	2		4	14	56
СОМР392	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,	1	2	ODL			
CIVE 1307	iii rioject Management	CNET229 or COMP225	1	2	ODE	3	14	42
COMP313�	Software Development Project 2	P=COMP231 and COMP303 and COMP304, or, COMP231 and COMP231 and COMP305 and COMP305 and COMP391, or, COMP246 and COMP258	2	2	НҮВ	4	14	56
COMP394	Practical Game Design	P=COMP305 and COMP391	2	2		4	14	56
СОМРЗ96	Game Programming 2	P=COMP305 and COMP391	2	2		4	14	56
GNED	General Education Elective			3		3		42
Minimum Grade	Required: D						Total	252
Transfer Grade	. nequirear b					Total Progr	am Hours:	1932
C = Co-Requisite;	P = Pre-Requisite							
Notes:  This course m	ay be offered in one of the following m	nodalities (Online, Hybr	id or Blend	ded)				

P=COMP228

Data Structures and Algorithms

COMP254