## **MODEL ROUTE** School of Engineering Technology and School: **Program Number: Applied Science** ☐ Certificate **Program Title:** Game - Programming Co-op Credential: Diploma ☑ Co-Op Online ☐1 Semesters **Program Delivery** Fast Track ☐ Hybrid **Duration:** 2 Semesters Mode: ☐ Non Co-op ☐3 Semesters Campus: **PROGRESS Department Code:** 3515 Fall 2022 and Winter 2023 Intake:

Course Title

Introduction to Game and Simulation

Fall 2022 or Winter 2023

College Communications 1

General Education Elective

**Functions and Number Systems** 

Winter 2023 or Summer 2023

Client-Side Web Development

Assets for Game Developers

**UNIX/Linux Operating Systems** 

Web Application Development

Software Systems Design

**Employment Preplacement** 

Global Citizenship: from Social Analysis

Game Programming 1

to Social Action

Winter 2024

Summer 2024

**Discrete Mathematics** 

Co-op Work Placement 1

C++ for Game Development

Introduction to Database Concepts

Software Requirements Engineering

College Communications 2

Programming 2

Summer 2023

Java Programming

Fall 2023

Programming 1

Web Interface Design

Course Code

Semester 1 COMM160/161

COMP100

COMP213

COMP391

MATH175

Semester 2

COMP122

COMP123

COMP125

COMP225◆

COMP253

COMP301

Semester 3

COMP228

COMP229

COMP246

COMP305

GNED500

**MATH185** 

Work Term 1 COOP222

Semester 4

COMP217

COOP321/421 �

**Break** 

COMM170/171

**GNED** 

## Co/Pre Requisite Lab Lecture

Hours

2

4

2

2

2

2

2

2

2

2

2

2

2

2

Hours

3

2

2

3

3

3

2

2

2

2

2

2

2

2

2

2

1

3

3

2

(Course Code)

P=COMM160 or

COMM161

P=COMP100

COMP213

P=COMP391

P=COMP100

P=COMP123

COMP125

COMP225

P=COMP123

P=COMP123

P=COMP123 and

P=COMP123 and

P=COMM170/171 minimum"C" grade;

CGPA 2.5; 80% year 1 courses completed

P=COMP100 and

P=COMP100, and,

COMP120 or COMP391

3119

Degree

Total

Course Hrs

(Lab +

Lecture +

Field)

3

4

4

4

3

3

3

4

4

4

4

4

4

4

4

4

4

1

3

3

4

Total

**Total** 

**Total** 

☐ Centennial College Certificate

Weeks

(14)

14

14

14

14

14

14

14

14

14

14

14

14

14

14

14

14

14

14

14

14

14

**Total Hours** 

42

56

56

56

42

42 294

42

56

56

56

56

56

56

378

56

56

56

56

14

42

42 322

56

☐ Graduate Certificate

☑ Advanced Diploma

☐4 Semesters

✓ 6 Semesters

8 Semesters

Field

Placement

Hours

Course

Delivery

ODL=Online

BLD=Blended

HYB = Hybrid

HYB

ODL

COMP254	Data Structures and Algorithms	P=COMP228	2	2		4	14	56
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 2024							
COOP331	Co-op Work Placement 2							
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Semester 5	Winter 2025				ı			
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
СОМРЗО8	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 2025							
COOP332	Co-op Work Placement 3							
Semester 6	Fall 2025							
CNET307�	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	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	НҮВ	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		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)								