

MODEL ROUTE

School:

School of Engineering Technology and Applied Science

Program Title:

Software Engineering Technology Co-op

Program Delivery Mode:

☒ Co-Op

☒ Online

☐ Fast Track

☐ Hybrid

☐ Non Co-op

Program Number:

3449

Credential:

☐ Certificate

☐ Graduate Certificate

☐ Degree

☐ Diploma

☒ Advanced Diploma

☐ Centennial College Certificate

Duration :

☐ 1 Semesters

☐ 4 Semesters

☐ 2 Semesters

☒ 6 Semesters

☐ 3 Semesters

☐ 8 Semesters

Campus:

ONLINE

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

ODL

4

14

56

COMP120

Software Engineering Fundamentals

2

2

ODL

4

14

56

COMP213

Web Interface Design

4

ODL

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

ODL

4

14

56

COMP123

Programming 2

P=COMP100

2

2

ODL

4

14

56

COMP125

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

COMP301

UNIX/Linux Operating Systems

P=COMP100

2

2

ODL

4

14

56

MATH185

Discrete Mathematics

3

ODL

3

14

42

Total

364

Break

Summer 2024

Semester 3

Fall 2024

COMP214

Advanced Database Concepts

P=COMP122

2

2

ODL

4

14

56

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

COOP421

Employment Preplacement

P=COMM160/161 minimum "C" grade; CGPA 2.5; 80% year 1 courses completed

1

ODL

1

14

14

ENGL253

Advanced Business Communications

P=COMM170 or COMM171

3

ODL

3

14

42

GNED500

Global Citizenship: from Social Analysis to Social Action

3

ODL

3

14

42

Total

322

Work Term 1

Winter 2025

COOP222

Co-op Work Placement 1

ODL

Semester 4

Summer 2025

COMP212	Programming 3	P=COMP123	2	2		ODL	4	14	56
COMP216	Networking for Software Developers	P=COMP100	2	2		ODL	4	14	56
COMP254	Data Structures and Algorithms	P=COMP228	2	2		ODL	4	14	56
COMP304	Mobile Apps Development	P=COMP228	2	2		ODL	4	14	56
COMP311	Software Testing and Quality Assurance	P=COMP123	2	2		ODL	4	14	56
MATH210	Linear Algebra and Statistics	P=MATH175 and MATH185	2	2		ODL	4	14	56
								Total	336
Work Term 2		Fall 2025							
COOP331	Co-op Work Placement 2					ODL			
Semester 5		Winter 2026							
CNET307	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP246	1	2		ODL	3	14	42
COMP231	Software Development Project 1	P=COMP228 and COMP229 and COMP246	2	2		ODL	4	14	56
COMP303	Enterprise Application Development	P=COMP214 and COMP228	2	2		ODL	4	14	56
COMP308	Emerging Technologies	P=COMP228 and COMP229	2	2		ODL	4	14	56
COMP321	Enterprise Systems Integration	P=COMP246	2	2		ODL	4	14	56
ELECT1	Technical Elective 1		2	1		ODL	3	14	42
								Total	308
Work Term 3		Summer 2026							
COOP332	Co-op Work Placement 3					ODL			
Semester 6		Fall 2026							
COMP255	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL	3	14	42
COMP306	API Engineering and Cloud Computing	P=COMP212 and COMP229	2	2		ODL	4	14	56
COMP307	Software Security	P=COMP212 and COMP228	2	2		ODL	4	14	56
COMP309	Data Warehousing and Predictive Analytics	P=COMP214	2	2		ODL	4	14	56
COMP313	Software Development Project 2	P=COMP231 and COMP303 and COMP304, or, COMP231 and COMP381	2	2		ODL	4	14	56
GNED	General Education Elective			3		ODL	3	14	42
								Total	308
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.									
Technical Electives:									
COMP367	DevOps Implementation		2	1		ODL	3	14	42
COMP377	AI for Software Developers		2	1		ODL	3	14	42