MODEL ROUTE School of Engineering Technology and School: **Program Number: Applied Science** Certificate Software Engineering Technology -**Program Title:** Credential: Diploma **Artificial Intelligence** Co-Op Online ☐ 1 Semesters **Program Delivery** Fast Track Hybrid 2 Semesters Mode: ✓ Non Co-op 3 Semesters Campus: **PROGRESS** 3515

Fall 2023 and Winter 2024

Fall 2023 or Winter 2024

College Communications 1

General Education Elective

Functions and Number Systems

Winter 2024 or Summer 2024

Client-Side Web Development

UNIX/Linux Operating Systems

Web Application Development

Software Systems Design

Linear Algebra and Statistics

Advanced Database Concepts

Networking for Software Developers

to Social Action

Winter 2025

Supervised Learning

Introduction to Artificial Intelligence

Global Citizenship: from Social Analysis

Discrete Mathematics

Summer 2024

Java Programming

Fall 2024

Introduction to Database Concepts

Software Requirements Engineering

College Communications 2

Programming 1

Programming 2

Web Interface Design

Course Title

Software Engineering Fundamentals

Intake:

Course Code

Semester 1 COMM160/161

COMP100

COMP120

COMP213

MATH175

Semester 2

COMP122

COMP123

COMP125

COMP225♦

COMP301

MATH185

Semester 3 COMP228

COMP229

COMP237

COMP246

GNED500

MATH210

Semester 4 COMP214

COMP216

COMP247

Break

COMM170/171

GNED♦

		☐ 1 Sem			
Duration :		2 Sem			
		☐ 3 Sem			
Department Code:		3515			
Co/Pre Requisite	Lab	Lecture			
(Course Code)	Hours	Hours			

P=COMM160 or

COMM161

P=COMP100

COMP213

P=COMP100

P=COMP123

COMP125

C=MATH210 P=COMP123 and

MATH175 and **MATH185**

P=COMP123 and

P=MATH175 and

COMP225

MATH185

P=COMP122

P=COMP100

MATH210

P= COMP228 and COMP237 and

P=COMP123 and

P=COMP100 and

P=COMP100, and,

COMP120 or COMP391

3402

Degree

Total

Course Hrs

(Lab +

Lecture +

Field)

3

4

4

4

3

3

3

4

4

4

4

4

3

4

4

4

4

3

4

4

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

14

Total Hours

42

56

56

56

42

42

294

42

56

56

56

56

56

42 364

56

56

56

56

42

56

322

56

56

56

☐ Graduate Certificate

✓ Advanced Diploma

4 Semesters

✓ 6 Semesters

8 Semesters

Field

Placement

Hours

2

2

4

2

2

2

2

2

2

2

2

2

2

2

2

2

3

2

2

3

3

3

2

2

2

2

2

3

2

2

2

2

3

2

2

2

2

Course

Delivery

ODL=Online

BLD=Blended

HYB = Hybrid

ODL

HYB

COMP311	Software Testing and Quality Assurance	P=COMP123	2	2		4	14	56
ENGL253	Advanced Business Communications	P=COMM170 or COMM171		3		3	14	42
						1	Γotal	322
Break	Summer 2025							
Semester 5	Fall 2025							
CNET307�	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP225	1	2	ODL	3	14	42
COMP251	Big Data Tools for Machine Learning	P=COMP247 and COMP254	2	2		4	14	56
COMP255�	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3		ODL	3	14	42
COMP257	Unsupervised and Reinforcement Learning	P=COMP247 and COMP254	2	2		4	14	56
COMP258	Neural Networks	P=COMP247 and COMP254	2	2		4	14	56
COMP304	Mobile Apps Development	P=COMP228	2	2		4	14	56
						1	Γotal	308
Semester 6	Winter 2026							
COMP261	AI Ethics and Data Governance	P=COMP247 and COMP254	1	2		3	14	42
COMP262	Natural Language Processing and Recommender Systems	P=COMP247 and COMP254 and COMP258	2	2		4	14	56
COMP263	Deep Learning	P= COMP258	2	2		4	14	56
COMP264	Cloud Machine Learning	P = COMP247	2	1		3	14	42
СОМРЗ13�	Software Development Project 2	P=COMP231 and COMP303 and COMP304, or, COMP231 and COMP381, or, COMP231 and COMP305 and COMP305, or, COMP246 and COMP258	2	2	НҮВ	4	14	56
EMPS102	Employment Skills 2	P=COMM170 or		2				
		COMM171				2	14	28
GNED❖	General Education Elective			3	ODL	3	14	42
Minimum Cort	Benvined: D						Total	322
Minimum Grade	requirea: D					T. I . I F		4000
Total Program Hours: C = Co-Requisite; P = Pre-Requisite								1932
	r = rre-kequisite							
Notes:								

2

P=COMP228

COMP254

Data Structures and Algorithms

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

56

14