

MODEL ROUTE

School:	School of Engineering Technology and Applied Science	Program Number:	3469		
Program Title:	Software Engineering Technology	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:	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
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	308
Semester 4	Winter 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

Break	Summer 2025								Total	336
Semester 5	Fall 2025									
COMP231	Software Development Project 1	P=COMP228 and COMP229 and COMP246	2	2		ODL	4	14	56	
COMP255	Business and Entrepreneurship for Software Engineering Technology	P=COMP225	3			ODL	3	14	42	
COMP303	Enterprise Application Development	P=COMP214 and COMP228	2	2		ODL	4	14	56	
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	
								Total	322	
Semester 6	Winter 2026									
CNET307	IT Project Management	P=COMM170 or COMM171, and, CNET229 or COMP246	1	2		ODL	3	14	42	
COMP308	Emerging Technologies	P=COMP228 and COMP229	2	2		ODL	4	14	56	
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		ODL	4	14	56	
COMP321	Enterprise Systems Integration	P=COMP246	2	2		ODL	4	14	56	
EMPS102	Employment Skills 2	P=COMM170 or COMM171		2		ODL	2	14	28	
ELECT1	Technical Elective 1		2	1		ODL	3	14	42	
GNED	General Education Elective			3		ODL	3	14	42	
								Total	322	
Minimum Grade Required: D										
Total Program Hours:									1946	
C = Co-Requisite; P = Pre-Requisite										
Notes:										
This course may be offered in one of the following modalities (Online, Hybrid or Blended)										
Technical Electives:										
COMP367	DevOps Implementation		2	1		ODL	3	14	42	
COMP377	AI for Software Developers		2	1		ODL	3	14	42	