

# MODEL ROUTE

| School:                | School of Engineering Technology and Applied Science                                                                                                                                              | Program Number:                          | 3469                                                                                                                                                                                                                                                                |                  |                             |                                                                 |                                                      |               |             |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|-----------------------------------------------------------------|------------------------------------------------------|---------------|-------------|
| Program Title:         | Software Engineering Technology                                                                                                                                                                   | Credential:                              | <input type="checkbox"/> Certificate <input type="checkbox"/> Graduate Certificate <input type="checkbox"/> Degree<br><input type="checkbox"/> Diploma <input checked="" type="checkbox"/> Advanced Diploma <input type="checkbox"/> Centennial College Certificate |                  |                             |                                                                 |                                                      |               |             |
| Program Delivery Mode: | <input type="checkbox"/> Co-Op <input checked="" type="checkbox"/> Online<br><input type="checkbox"/> Fast Track <input type="checkbox"/> Hybrid<br><input checked="" type="checkbox"/> Non Co-op | Duration :                               | <input type="checkbox"/> 1 Semesters <input type="checkbox"/> 4 Semesters<br><input type="checkbox"/> 2 Semesters <input checked="" type="checkbox"/> 6 Semesters<br><input type="checkbox"/> 3 Semesters <input type="checkbox"/> 8 Semesters                      |                  |                             |                                                                 |                                                      |               |             |
| Campus:                | ONLINE                                                                                                                                                                                            | Department Code:                         | 3515                                                                                                                                                                                                                                                                |                  |                             |                                                                 |                                                      |               |             |
| Intake:                | Fall 2022 and Winter 2023                                                                                                                                                                         |                                          |                                                                                                                                                                                                                                                                     |                  |                             |                                                                 |                                                      |               |             |
| Course Code            | Course Title                                                                                                                                                                                      | Co/Pre Requisite<br>(Course Code)        | Lab<br>Hours                                                                                                                                                                                                                                                        | Lecture<br>Hours | Field<br>Placement<br>Hours | Course<br>Delivery<br>ODL=Online<br>BLD=Blended<br>HYB = Hybrid | Total<br>Course Hrs<br>(Lab +<br>Lecture +<br>Field) | Weeks<br>(14) | Total Hours |
| Semester 1             | Fall 2022 or Winter 2023                                                                                                                                                                          |                                          |                                                                                                                                                                                                                                                                     |                  |                             |                                                                 |                                                      |               |             |
| 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 2023 or Summer 2023                                                                                                                                                                        |                                          |                                                                                                                                                                                                                                                                     |                  |                             |                                                                 |                                                      |               |             |
| COMM170/171            | College Communications 2                                                                                                                                                                          | P=COMM160 or<br>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<br>COMP213                 | 2                                                                                                                                                                                                                                                                   | 2                |                             | ODL                                                             | 4                                                    | 14            | 56          |
| COMP225                | Software Requirements Engineering                                                                                                                                                                 | P=COMP100, and,<br>COMP120 or<br>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 2023                                                                                                                                                                                       |                                          |                                                                                                                                                                                                                                                                     |                  |                             |                                                                 |                                                      |               |             |
| Semester 3             | Fall 2023                                                                                                                                                                                         |                                          |                                                                                                                                                                                                                                                                     |                  |                             |                                                                 |                                                      |               |             |
| 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<br>COMP125                 | 2                                                                                                                                                                                                                                                                   | 2                |                             | ODL                                                             | 4                                                    | 14            | 56          |
| COMP246                | Software Systems Design                                                                                                                                                                           | P=COMP123 and<br>COMP225                 | 2                                                                                                                                                                                                                                                                   | 2                |                             | ODL                                                             | 4                                                    | 14            | 56          |
| ENGL253                | Advanced Business Communications                                                                                                                                                                  | P=COMM170 or<br>COMM171                  |                                                                                                                                                                                                                                                                     | 3                |                             | ODL                                                             | 3                                                    | 14            | 42          |
| GNED500                | Global Citizenship: from Social Analysis<br>to Social Action                                                                                                                                      |                                          |                                                                                                                                                                                                                                                                     | 3                |                             | ODL                                                             | 3                                                    | 14            | 42          |
|                        |                                                                                                                                                                                                   |                                          |                                                                                                                                                                                                                                                                     |                  |                             |                                                                 |                                                      | Total         | 308         |
| Semester 4             | Winter 2024                                                                                                                                                                                       |                                          |                                                                                                                                                                                                                                                                     |                  |                             |                                                                 |                                                      |               |             |
| 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<br>MATH185                 | 2                                                                                                                                                                                                                                                                   | 2                |                             | ODL                                                             | 4                                                    | 14            | 56          |

|         |                            |   |   |     |   |    |    |
|---------|----------------------------|---|---|-----|---|----|----|
| COMP367 | DevOps Implementation      | 2 | 1 | ODL | 3 | 14 | 42 |
| COMP377 | AI for Software Developers | 2 | 1 | ODL | 3 | 14 | 42 |