# MODEL ROUTE

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| **School:** | School of Engineering Technology and Applied Science | **Program Number:** | 3638 |
| **Program Title:** | **Health Informatics Technology Co-op, Fast Track** | **Credential:** | ☐ Certificate  ☐ Graduate Certificate  ☐ Degree<br>☐ Diploma  ☑ Advanced Diploma  ☐ Centennial College Certificate |
| **Program Delivery Mode:** | ☑ Co-Op  ☑ Online<br>☑ Fast Track  ☐ Hybrid<br>☐ Non Co-op | **Duration :** | ☐ 1 Semesters  ☑ 4 Semesters<br>☐ 2 Semesters  ☐ 6 Semesters<br>☐ 3 Semesters  ☐ 8 Semesters |
| **Campus:** | **ONLINE** | **Department Code:** | **3515** |
| **Intake:** | **Fall 2022** ~~and Winter 2023~~ | | |

| 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 3** | **Fall 2022** | | | | | | | | |
| COMM170/171◈ | College Communications 2 | P=COMM160 or COMM161 | | 3 | | ODL | 3 | 14 | 42 |
| COMP123 ◈ | Programming 2 | P=COMP100 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COMP214◈ | Advanced Database Concepts | P=COMP122 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COMP246 ◈ | Software Systems Design | P=COMP123 and COMP225 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COMP381 ◈ | Tools, Algorithms and Methods for HCIS | C=COMP214; P=COMP123 | 2 | 2 | | ODL | 4 | 14 | 56 |
| GNED500◈ | Global Citizenship: from Social Analysis to Social Action | | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | **Total** | | 308 |
| **Semester 4** | **Winter 2023** | | | | | | | | |
| COMP212◈ | Programming 3 | P=COMP123 | 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 |
| COMP311 ◈ | Software Testing and Quality Assurance | P=COMP123 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COMP380◈ | Structure of HCIS | P=COMP120 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COOP421◈ | Employment Preplacement | P=COMM170/171 minimum"C" grade; CGPA 2.5; 80% year 1 courses completed | | 1 | | ODL | 1 | 14 | 14 |
| MATH210 ◈ | Linear Algebra and Statistics | P=MATH175 and MATH185 | 2 | 2 | | ODL | 4 | 14 | 56 |
| | | | | | | | **Total** | | 350 |
| **Work Term 1** | **Summer 2023** | | | | | | | | |
| COOP222 ◈ | Co-op Work Placement 1 | | | | | ODL | | | |
| **Work Term 2** | **Fall 2023** | | | | | | | | |
| COOP331 ◈ | Co-op Work Placement 2 | | | | | ODL | | | |
| **Semester 5** | **Winter 2024** | | | | | | | | |
| CNET307◈ | IT Project Management | P=COMM170 or COMM171, and, CNET229 or COMP225 | 1 | 2 | | ODL | 3 | 14 | 42 |
| COMP231◈ | Software Development Project 1 | P=COMP228 and COMP229 and COMP246 | 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 |
| COMP321◈ | Enterprise Systems Integration | P=COMP246 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COMP387◈ | Clinical Workflow and IT Solutions | | 2 | 1 | | ODL | 3 | 14 | 42 |

| Code | Course Name | Requisites | | | | | | | | |
|------|-------------|-----------|---|---|---|---|---|---|---|---|
| ENGL253 ◈ | Advanced Business Communications | P=COMM170 or COMM171 | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | | **Total** | 350 |
| **Break** | **Summer 2024** | | | | | | | | |
| | | | | | | | | **Total** | 658 |
| **Semester 6** | **Fall 2024** | | | | | | | | |
| COMP216 ◈ | Networking for Software Developers | P=COMP100 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COMP255◈ | Business and Entrepreneurship for Software Engineering Technology | P=COMP225 | 3 | | | ODL | 3 | 14 | 42 |
| 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 |
| COMP383 ◈ | Data Security and Privacy Policies in HCIS | P=COMP380 | 2 | 2 | | ODL | 4 | 14 | 56 |
| COMP384 ◈ | Telehealth | P=COMP381 | 2 | 2 | | ODL | 4 | 14 | 56 |
| GNED ◈ | General Education Elective | | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | | **Total** | 364 |
| **Minimum Grade Required: D** | | | | | | | | | |
| | | | | | | | **Total Program Hours:** | | **1372** |

**C = Co-Requisite; P = Pre-Requisite**

**Notes:**
◈This course may be offered in one of the following modalities (Online, Hybrid or Blended)