# MODEL ROUTE

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| **School:** | School of Engineering Technology and Applied Science | **Program Number:** | 3538 |

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| **Program Title:** | **Health Informatics Technology Co-op, Fast Track** | **Credential:** ☐ Certificate ☐ Diploma ☐ Graduate Certificate ☑ Advanced Diploma ☐ Degree ☐ Centennial College Certificate |

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| **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 |

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| **Campus:** | **PROGRESS** | **Department Code:** | **3515** |

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| **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 3** | **Fall 2023 or Winter 2024** | | | | | | | | |
| COMM170/171◆ | College Communications 2 | P=COMM160 or COMM161 | | 3 | | ODL | 3 | 14 | 42 |
| COMP123 | Programming 2 | P=COMP100 | 2 | 2 | | | 4 | 14 | 56 |
| COMP214 | Advanced Database Concepts | P=COMP122 | 2 | 2 | | | 4 | 14 | 56 |
| COMP246◆ | Software Systems Design | P=COMP123 and COMP225 | 2 | 2 | | HYB | 4 | 14 | 56 |
| COMP381 | Tools, Algorithms and Methods for HCIS | C=COMP214; P=COMP123 | 2 | 2 | | | 4 | 14 | 56 |
| GNED500◆ | Global Citizenship: from Social Analysis to Social Action | | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | **Total** | | 308 |
| **Semester 4** | **Winter 2024 or Summer 2024** | | | | | | | | |
| COMP212 | Programming 3 | P=COMP123 | 2 | 2 | | | 4 | 14 | 56 |
| COMP228 | Java Programming | P=COMP123 | 2 | 2 | | | 4 | 14 | 56 |
| COMP229 | Web Application Development | P=COMP123 and COMP125 | 2 | 2 | | | 4 | 14 | 56 |
| COMP311◆ | Software Testing and Quality Assurance | P=COMP123 | 2 | 2 | | HYB | 4 | 14 | 56 |
| COMP380◆ | Structure of HCIS | P=COMP120 | 2 | 2 | | HYB | 4 | 14 | 56 |
| COOP321◆◆ | 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 | | HYB | 4 | 14 | 56 |
| | | | | | | | **Total** | | 350 |
| **Work Term 1** | **Summer 2024 or Fall 2024** | | | | | | | | |
| COOP222 | Co-op Work Placement 1 | | | | | | | | |
| **Work Term 2** | **Fall 2024 or Summer 2025** | | | | | | | | |
| COOP331 | Co-op Work Placement 2 | | | | | | | | |
| **Semester 5** | **Winter 2025** | | | | | | | | |
| 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 | | | 4 | 14 | 56 |
| COMP304 | Mobile Apps Development | P=COMP228 | 2 | 2 | | | 4 | 14 | 56 |
| COMP388◆ | Health Care Data Analytics and Cloud Computing | P=COMP254 and COMP381 | 2 | 2 | | HYB | 4 | 14 | 56 |

| Course | Title | Requisite | | | | Modality | | | |
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| COMP387◈ | Clinical Workflow and IT Solutions | | 2 | 1 | | ODL | 3 | 14 | 42 |
| ENGL253◈ | Advanced Business Communications | P=COMM170 or COMM171 | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | | Total | 350 |
| Break | **Summer 2025** | | | | | | | | |
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| Semester 6 | **Fall 2025** | | | | | | | | |
| COMP216◈ | Networking for Software Developers | P=COMP100 | 2 | 2 | | HYB | 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 | | | 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 | | | 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)

◈◈ This course may be offered in a compressed delivery 2 hours per week for a 7 week period.