

MODEL ROUTE

| School: | School of Engineering Technology and Applied Science | Program Number: | 3518 | | | | | | |
|-------------------------------|---|---|---|------------------|-----------------------------|---|--|---------------|-------------|
| Program Title: | Health Informatics Technology Co-op | Credential: | <input type="checkbox"/> Certificate <input type="checkbox"/> Graduate Certificate <input type="checkbox"/> Degree <input type="checkbox"/> Diploma <input checked="" type="checkbox"/> Advanced Diploma <input type="checkbox"/> Centennial College Certificate | | | | | | |
| Program Delivery Mode: | <input checked="" type="checkbox"/> Co-Op <input type="checkbox"/> Online <input type="checkbox"/> Fast Track <input checked="" type="checkbox"/> Hybrid <input type="checkbox"/> Non Co-op | Duration : | <input type="checkbox"/> 1 Semesters <input type="checkbox"/> 4 Semesters <input type="checkbox"/> 2 Semesters <input checked="" type="checkbox"/> 6 Semesters <input type="checkbox"/> 3 Semesters <input type="checkbox"/> 8 Semesters | | | | | | |
| Campus: | PROGRESS | Department Code: | 3515 | | | | | | |
| Intake: | Fall 2021 and Winter 2022 | | | | | | | | |
| 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 2021 or Winter 2022 | | | | | | | | |
| COMM160/161 | College Communications 1 | | | 3 | | ODL | 3 | 14 | 42 |
| COMP100 | Programming 1 | | 2 | 2 | | | 4 | 14 | 56 |
| COMP120 | Software Engineering Fundamentals | | 2 | 2 | | HYB | 4 | 14 | 56 |
| COMP213 | Web Interface Design | | 4 | | | | 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 2022 or Summer 2022 | | | | | | | | |
| COMM170/171 | College Communications 2 | P=COMM160 or COMM161 | | 3 | | ODL | 3 | 14 | 42 |
| COMP122 | Introduction to Database Concepts | | 2 | 2 | | | 4 | 14 | 56 |
| COMP123 | Programming 2 | P=COMP100 | 2 | 2 | | | 4 | 14 | 56 |
| COMP125 | Client-Side Web Development | P=COMP100 and COMP213 | 2 | 2 | | | 4 | 14 | 56 |
| COMP225 | Software Requirements Engineering | P=COMP100, and, COMP120 or COMP391 | 2 | 2 | | HYB | 4 | 14 | 56 |
| COMP301 | UNIX/Linux Operating Systems | P=COMP100 | 2 | 2 | | | 4 | 14 | 56 |
| COMP380 | Structure of HCIS | P=COMP120 | 2 | 2 | | HYB | 4 | 14 | 56 |
| | | | | | | | | Total | 378 |
| Break | Summer 2022 | | | | | | | | |
| | | | | | | | | | |
| Semester 3 | Fall 2022 | | | | | | | | |
| COMP214 | Advanced Database Concepts | P=COMP122 | 2 | 2 | | | 4 | 14 | 56 |
| COMP229 | Web Application Development | P=COMP123 and COMP125 | 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 |
| COOP321 | Employment Preplacement | P=COMM170/171 minimum"C" grade; CGPA 2.5; 80% year 1 courses completed | | 1 | | ODL | 1 | 14 | 14 |
| GNED500 | Global Citizenship: from Social Analysis to Social Action | | | 3 | | ODL | 3 | 14 | 42 |
| MATH185 | Discrete Mathematics | | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | | Total | 322 |
| Work Term 1 | Winter 2023 | | | | | | | | |
| COOP222 | Co-op Work Placement 1 | | | | | | | | |
| | | | | | | | | | |
| Semester 4 | Summer 2023 | | | | | | | | |
| COMP212 | Programming 3 | P=COMP123 | 2 | 2 | | | 4 | 14 | 56 |

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|--|---|--|---|---|--|-----|---|--------------|------------|
| COMP228 | Java Programming | P=COMP123 | 2 | 2 | | | 4 | 14 | 56 |
| COMP311 | Software Testing and Quality Assurance | P=COMP123 | 2 | 2 | | HYB | 4 | 14 | 56 |
| 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 |
| MATH210 | Linear Algebra and Statistics | P=MATH175 and MATH185 | 2 | 2 | | HYB | 4 | 14 | 56 |
| | | | | | | | | Total | 308 |
| Work Term 2 | Fall 2023 | | | | | | | | |
| COOP331 | Co-op Work Placement 2 | | | | | | | | |
| Semester 5 | Winter 2024 | | | | | | | | |
| CNET307 | IT Project Management | P=COMM170 or COMM171, and, CNET229 or COMP225 | 1 | 2 | | ODL | 3 | 14 | 42 |
| COMP216 | Networking for Software Developers | P=COMP100 | 2 | 2 | | HYB | 4 | 14 | 56 |
| 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 |
| COMP321 | Enterprise Systems Integration | P=COMP246 | 2 | 2 | | HYB | 4 | 14 | 56 |
| | | | | | | | | Total | 322 |
| Work Term 3 | Summer 2024 | | | | | | | | |
| COOP332 | Co-op Work Placement 3 | | | | | | | | |
| Semester 6 | Fall 2024 | | | | | | | | |
| 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 | 308 |
| Minimum Grade Required: D | | | | | | | | | |
| Total Program Hours: | | | | | | | | 1932 | |
| C = Co-Requisite; P = Pre-Requisite | | | | | | | | | |
| Notes: | | | | | | | | | |
| ◆This course may be offered in one of the following modalities (Online, Hybrid or Blended) | | | | | | | | | |