

MODEL ROUTE

School:

School of Engineering Technology and Applied Science

Program Title:

Software Engineering Technology - Artificial Intelligence, Fast Track

Program Delivery Mode:

☐ Co-Op☐ Online☒ Fast Track☐ Hybrid☒ Non Co-op

Program Number:

3422

Credential:

☐ Certificate☐ Graduate Certificate☐ Degree☐ Diploma☒ Advanced Diploma☐ Centennial College Certificate

Duration :

☐ 1 Semesters☒ 4 Semesters☐ 2 Semesters☐ 6 Semesters☐ 3 Semesters☐ 8 Semesters

Campus:

PROGRESS

Department Code:

3515

Intake:

Fall 2024 and Winter 2025

| 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 2025 or Winter 2025 | | | | | | | | |
| COMM170/171 | College Communications 2 | P=COMM160 or COMM161 | | 3 | | ODL | 3 | 14 | 42 |
| COMP228 | Java Programming | P=COMP123 | 2 | 2 | | | 4 | 14 | 56 |
| COMP229 | Web Application Development | P=COMP123 and COMP125 | 2 | 2 | | | 4 | 14 | 56 |
| COMP237 | Introduction to Artificial Intelligence | C=MATH210 P=COMP123 and MATH175 and MATH185 | 2 | 2 | | | 4 | 14 | 56 |
| COMP246 | Software Systems Design | P=COMP123 and COMP225 | 2 | 2 | | | 4 | 14 | 56 |
| GNED500 | Global Citizenship: from Social Analysis to Social Action | | | 3 | | ODL | 3 | 14 | 42 |
| MATH210 | Linear Algebra and Statistics | P=MATH175 and MATH185 | 2 | 2 | | HYB | 4 | 14 | 56 |
| | | | | | | | | Total | 364 |
| Semester 4 | Winter 2025 or Summer 2025 | | | | | | | | |
| COMP214 | Advanced Database Concepts | P=COMP122 | 2 | 2 | | | 4 | 14 | 56 |
| COMP216 | Networking for Software Developers | P=COMP100 | 2 | 2 | | HYB | 4 | 14 | 56 |
| COMP247 | Supervised Learning | P= COMP228 and COMP237 and MATH210 | 2 | 2 | | | 4 | 14 | 56 |
| COMP254 | Data Structures and Algorithms | P=COMP228 | 2 | 2 | | | 4 | 14 | 56 |
| COMP311 | Software Testing and Quality Assurance | P=COMP123 | 2 | 2 | | HYB | 4 | 14 | 56 |
| ENGL253 | Advanced Business Communications | P=COMM170 or COMM171 | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | | Total | 322 |
| Break | Summer 2025 | | | | | | | | |
| Semester 5 | Fall 2025 | | | | | | | | |
| CNET307 | IT Project Management | P=COMM170 or COMM171, and, CNET229 or COMP225 | 1 | 2 | | ODL | 3 | 14 | 42 |
| COMP251 | Big Data Tools for Machine Learning | P=COMP247 and COMP254 | 2 | 2 | | | 4 | 14 | 56 |
| COMP255 | Business and Entrepreneurship for Software Engineering Technology | P=COMP225 | 3 | | | ODL | 3 | 14 | 42 |
| COMP257 | Unsupervised and Reinforcement Learning | P=COMP247 and COMP254 | 2 | 2 | | | 4 | 14 | 56 |
| COMP258 | Neural Networks | P=COMP247 and COMP254 | 2 | 2 | | | 4 | 14 | 56 |
| COMP304 | Mobile Apps Development | P=COMP228 | 2 | 2 | | | 4 | 14 | 56 |

| Semester 6 | Winter 2026 | | | | | | | Total | 308 |
|---|---|-----------------------------------|---|---|--|-----|---|-----------------------------|-------------|
| COMP261 ♦ | AI Ethics and Data Governance | P=COMP247 and COMP254 | 1 | 2 | | HYB | 3 | 14 | 42 |
| COMP262 | Natural Language Processing and Recommender Systems | P=COMP247 and COMP254 and COMP258 | 2 | 2 | | | 4 | 14 | 56 |
| COMP263 | Deep Learning | P= COMP258 | 2 | 2 | | | 4 | 14 | 56 |
| COMP264 | Cloud Machine Learning | P = COMP247 | 2 | 1 | | | 3 | 14 | 42 |
| COMP385 ♦ | Artificial Intelligence Capstone Project | P=COMP246 and COMP258 | 2 | 2 | | HYB | 4 | 14 | 56 |
| EMPS102 ♦ | Employment Skills 2 | P=COMM170 or COMM171 | | 2 | | ODL | 2 | 14 | 28 |
| GNED ♦ | General Education Elective | | | 3 | | ODL | 3 | 14 | 42 |
| | | | | | | | | Total | 322 |
| Minimum Grade Required: D | | | | | | | | | |
| | | | | | | | | Total Program Hours: | 1316 |
| C = Co-Requisite; P = Pre-Requisite | | | | | | | | | |
| Notes: | | | | | | | | | |
| ♦ This course may be offered in one of the following modalities (Online, Hybrid or Blended) | | | | | | | | | |