

| Year 1 | |
|--------------------------------------------------------------|--------------------------------------------------------------|
| Fall Term | Winter Term |
| Fundamentals of Engineering Design | Indigenous Engagement and Relationships for Engineers |
| Technical Writing | Linear Algebra for Engineers |
| Introduction to Programming for Engineers | Applied Calculus II |
| Applied Calculus I | Chemical Principles and Properties I |
| Physics for Scientists and Engineers I | Physics for Scientists and Engineers II |
| Year 2 | |
| Fall Term | Winter Term |
| Manufacturing Processes | Fluid Mechanics |
| Computer-aided Design | Thermodynamics and Heat Transfer |
| Electric and Electronic Circuits | Applied Artificial Intelligence |
| Modelling of Engineered Systems | Probability and Statistics for Engineers |
| Engineering Mechanics | Digital Systems |
| Year 3 | |
| Fall Term | Winter Term |
| Sustainable Engineering of Future Cities | Healthy Communities |
| Renewable and Clean Energy | Applied Machine Learning |
| Transportation | Automation and Robotics |
| Mechanics of Materials | Sensors and Actuators |
| Project Management | Biomedical Devices |
| Computer Simulation of Engineered Systems | Social Science Elective |
| Year 4 | |
| Fall Term | Winter Term |
| Integrated Engineering Capstone Design Project | Integrated Engineering Capstone Design Project |
| Ethics, Law, and Professionalism for Engineers | Integrated Engineering Technical Elective 3* |
| Technology Entrepreneurship | Integrated Engineering Technical Elective 4* |
| Integrated Engineering Technical Elective 1* | Integrated Engineering Technical Elective 5* |
| Integrated Engineering Technical Elective 2* | Social Science Elective |

***Selecting five courses from the following list of Integrated Engineering technical electives:**

- Nanotechnology and Biomedical Engineering
- Cybersecurity
- Real-time and Embedded Systems
- Water Resources Management
- Introduction to Finite Element Analysis
- Building Information Modelling (BIM)
- Biosensors
- Internet of Things (IoT)
- Intelligent Control
- Environmental Design for Waste Disposal
- Mechatronic Systems Design
- Nanotechnology in Energy Systems
- Digital Engineering
- Environmental Engineering
- Data Mining

Note: Co-op semesters start after the second year with 12-month and 16-month options.