# ELECTRICAL AND COMPUTER ENGINEERING - MASTER OF APPLIED SCIENCE

This is a thesis/research based Master's program. The minimum requirement are a research thesis, a seminar course, and 4 term-length graduate-level courses, of which two courses must be selected from graduate courses offered by the Department of Electrical and Computer Engineering. Of the remaining two courses, one course may be a senior 4th year undergraduate course provided that:

1. the course is approved by the student's supervisor(s)
2. the student has not received credit for a similar course in their Bachelor's program.

The student must attend department seminars to complete ELEC 891 Seminar, the mandatory seminar series course. The requirements are set at the Department's discretion according to the student's background.

The supervisor(s) and department must approve all programs of study.

## Master of Applied Science (M.A.Sc.) with a Field of Study in Artificial Intelligence

This is a thesis/research based Master's program with a Field of Study in Artificial Intelligence. The minimum requirements of the Field of Study in Artificial Intelligence are:

- Take a minimum of two courses from the list of AI-related courses, including ELEC 825 Machine Learning and Deep Learning
- Take up to two more graduate-only courses as required in the MASc program
- Complete an AI-related MASc thesis
- Complete other requirements including taking the graduate seminar course and the non-credit AI Ethics and Society course

### List of AI-related Courses

| Code | Title | Units |
|---|---|---|
| ELEC 823 | Signal Processing | 3.00 |
| ELEC 825 | Machine Learning and Deep Learning | 3.00 |
| ELEC 874 | Deep Learning in Computer Vision | 3.00 |
| ELEC 879 | Wearable and IoT Computing | 3.00 |
| ELEC 880 | Machine Learning for Natural Language Processing | 3.00 |

The student must attend departmental seminars to complete ELEC 891 Seminar, the mandatory seminar series course. The requirements are set at the Department's discretion according to the student's background.

The supervisor(s) and department must approve all programs of study.