BASC IN ELECTRICAL ENGINEERING AND BSC IN COMPUTING TECHNOLOGY

Electrical engineering is at the heart of today’s exciting advances in technology. With five technical specializations—communications, systems, electronics, microwave and photonic, and power and sustainable energy—our curriculum will enable you to influence how the world communities communicate, generate sustainable energy and heal diseases. As an electrical engineer, you will work with other engineers or scientists on emerging technologies.

The option of Engineering Management will prepare you with necessary skills to pursue entrepreneurial activities and start your own technology-related business. The double degree program—BASc in Electrical Engineering and BSc in Computing Technology—will put you at the intersection of the two areas that propel the waves of technological development.

This program is offered in English and in French.

All courses are available in English and French. Advanced courses are sometimes offered only in English.

Program Requirements

Upon completion of a Bachelor of Applied Science in Electrical engineering, a student who completes the requirements specified below for 33 extra units will be eligible for a BSc in Computing Technology as a second degree. The remaining 120 units are from their engineering degree; students follow the engineering degree requirements and the Computing Technology degree requirements in parallel. It is not allowed to obtain the Computing Technology degree without also completing the corresponding engineering degree.

Co-operative education is available with this program.

Requirements for this program have been modified. Please consult the 2015-2016 calendars (http://www.uottawa.ca/academic/info/regist/1516/calendars/) for the previous requirements.

### BASc in Electrical Engineering

- ITI 1120 Introduction to Computing I  3 Units
- CSI 2101 Discrete Structures  3 Units
- CSI 2110 Data Structures and Algorithms  3 Units
- CSI 2120 Programming Paradigms  3 Units
- CSI 2372 Advanced Programming Concepts With C++  3 Units
- CSI 3120 Programming Language Concepts  3 Units
- CSI 3131 Operating Systems  3 Units
- ITI 1121 Introduction to Computing II  3 Units
- MAT 1348 Discrete Mathematics for Computing  3 Units
- SEG 2105 Introduction to Software Engineering  3 Units
- SEG 2106 Software Construction  3 Units
- 3 course units in computer science (CSI), software engineering (SEG), or computer engineering (CEG) at the 3000 or 4000 level

**Total:** 153 Units

### Note(s)

1. Please consult the requirements for the BASc in Electrical Engineering (http://catalogue.uottawa.ca/en/undergrad/basc-electrical-engineering/) program.
2. This course replaces GNG 1106 in the BASc in Electrical Engineering, for the purpose of the double degree, BASc in Electrical Engineering and BSc in Computing Technology.