HONOURS BSC IN COMPUTER SCIENCE

Computer science at the School of Electrical Engineering and Computer Science combines the study of computation and information processing fundamentals with their application in the world around us. Computer scientists build fast, reliable, scalable and secure software systems to organize and analyze information. The honours curriculum comprises advanced topics in databases, artificial intelligence, computer graphics, security, distributed computing and algorithm design, culminating in an honours project.

This program teaches graduates how to use their creative and innovative talents to conceive, design and implement software systems. The Extended French Stream (EFS) is now available to all students in the Computer Science program. Our degrees are very flexible and include options, minors and a major, which can be used to explore connections between computer science and many other fields of study.

This program is offered in English and in French.

Program Requirements

Co-operative education is available with this program.

The extended French stream is available with this program.

Requirements for this program have been modified. Please consult the 2015-2016 calendars for the previous requirements.

One option from the following: 6 Units

Option 1:
- 6 optional course units in computer engineering (CEG), in electrical engineering (ELG) or in software engineering (SEG) at the 3000 level; or in computer science (CSI) at the 4000 level

Option 2:
- CSI 2372 Advanced Programming Concepts With C++
- and 3 optional course units in computer engineering (CEG), in electrical engineering (ELG) or in software engineering (SEG) at the 3000 level; or in computer science (CSI) at the 4000 level

12 optional course units in computer science (CSI) at the 4000 level

27 course units of non-computing, non mathematics courses 

3 course units of free elective courses

Total: 120 Units

Note(s)

As electives, students are encouraged to choose fifteen units of business or science courses (other than MAT) and twelve units of humanities or social sciences courses. Alternatively, students may take a minor in a domain in which they expect to apply computing skills: The minor in Information Management Systems is specifically designed for this. See School of Management.