

# BASC CIVIL ENGINEERING AND BSC COMPUTING TECHNOLOGY

Civil engineers design the infrastructure on which their communities depend, such as buildings and their foundations, bridges, canals, dams, transportation facilities, municipal sewer and water networks, and wastewater and solid waste treatment systems.

Civil engineering students at the University of Ottawa can take advantage of world-class teaching laboratories, multimedia classrooms and outstanding computer facilities. Students develop expertise in computer applications, field and laboratory testing, and project management, and they are well-equipped to serve their communities upon graduation.

This program is offered in English and in French.

French courses are available in first year and almost all of second year. Most third and fourth year courses are offered in English only.

## Program Requirements

Upon completion of a Bachelor of Applied Science in Civil engineering, a student who completes the requirements specified below for 30 extra units will be eligible for a BSc in Computing Technology, as a second degree. The remaining 132 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.

BASc in Civil Engineering <sup>1, 2</sup>	129 Units
<b>Compulsory Courses:</b>	
CSI 2110 Data Structures and Algorithms	3 Units
CSI 2120 Programming Paradigms	3 Units
ITI 1100 Digital Systems I	3 Units
ITI 1120 Introduction to Computing I <sup>2</sup>	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
12 course units chosen from GEO 4301, computer science (CSI) or software engineering (SEG) courses at the 2000, 3000 or 4000 level	12 Units
<b>Total:</b>	<b>162 Units</b>

Note(s)

1

Please consult the requirements for the BASc in Civil Engineering (<http://catalogue.uottawa.ca/en/undergrad/basc-civil-engineering/>) program.

2

ITI 1120 replaces GNG 1106 in the BASc in Civil Engineering, for the purpose of the double degree, BASc in Civil Engineering and BSc in Computing Technology.