



Computer Science

FACULTY OF SCIENCE



Who We Are

The pursuit of excellence and fostering of innovation drive the School of Computer Science. We offer a variety of exciting programs that use leading-edge technology. If you are dedicated to academic achievement, and are enthusiastic, disciplined, and motivated, we would like you to join us.

Why Windsor

The Right Choice

Quality programs. Exceptional faculty members. A friendly, supportive campus. These are just a few of the reasons why Windsor is the right choice for you. We provide "the degree that works," an innovative, student-focused approach that combines learner-centred teaching with practical experiences to prepare its students for the challenges of tomorrow.

Vibrant and Dynamic

Windsor (www.city.windsor.on.ca/home) is a friendly community of 200,000. We're known for our exciting arts and entertainment scene, hundreds of restaurants, and abundant shopping. Outdoor enthusiasts can enjoy our moderate climate, many major waterways and countless parks. And, our strategic, international border location means Michigan is just across the river with concerts, world-class museums and four major league sports teams.

*the degree
that works*

The Windsor advantage

Why a Computer Science Degree?

The computing revolution is only just beginning. Computers now influence a huge range of areas – business, health care, education, government, environmental management, engineering, scientific research, video production, language translation, space exploration ... and the list goes on! Your skills as a computer scientist are in great demand!

As society becomes increasingly more dependent on computers, we continue to push the limits of computing technology through the development of new programming languages, database systems, and approaches to artificial intelligence. Ethical, social, and legal questions need to be addressed as computing technology and applications become more closely integrated with the fabric of our society.

A Computer Science degree will help you to become part of the solution, allowing you to help shape the 21st century. Your opportunity for personal and professional growth will be significantly enhanced through the carefully engineered computer science curriculum available at the University of Windsor.

We are concerned with knowledge processing and problem solving using computers. You will study fundamental concepts related to representation, interpretation, and analysis of knowledge, as well as automation of deductive reasoning, assessment of the value and applicability of computers. Concepts can be considered in theoretical terms and in terms of applications. We also offer exciting combined degree programs that mix computer science with other disciplines such as biology and earth sciences, visual arts, physics and high technology, communication studies, mathematics, and business.

Program Profiles

Our goal is to equip students with the knowledge and skills needed to develop and apply techniques for advancing the interaction between person and machine. This synergy offers the best hope for

finding solutions to pressing world problems that require the analysis of vast amounts of data. All of our programs (except the three-year general degree) are available with a Co-op option.

BCS Computer Science, Honours, Honours (Co-op) or General Degree

The Bachelor of Computer Science degree programs offer exposure to the various components of computer science. The BCS three-year General Degree provides a solid background in all areas of computer science along with exposure to other subject areas allowing for an enriched general education. Our four-year Honours program is more in-depth, and combines advanced theory and practice.

BSc Computer Information Systems, Honours, Honours (Co-op)

This four-year Bachelor of Science program focuses on the application of computers in industry and in commerce. Students will gain a foundation in computer science, in addition to being exposed to the world of industry and commerce that are driven by information systems.

BSc Computer Science with Artificial Intelligence Specialization, Honours

This new, four-year program enriches the general, broad theoretical and practical background from many areas of Computer Science with an in-depth exposure to Artificial Intelligence topics, including logic and symbolic programming, search techniques, knowledge representations.

BSc Computer Science with Software Engineering Specialization, Honours, Honours (Co-op)

Learn one of the most sought-after skills in the world! This is a cutting-edge, four-year Bachelor of Science program that will prepare you for a successful, rewarding career in specification design, coding, and testing of software. Emphasis is on software engineering, database, WWW,

and large-scale software. **Note:** The BSc Computer Science with Software Engineering Specialization is not an engineering degree.

BSc Computer Science with Multi-Media Specialization, Honours, Honours (Co-op)

This four-year Bachelor of Science program provides training for students pursuing a career in multi-media, software systems design and construction. Emphasis is on WWW, visualization, networking, database, and human-computer interface. Courses in computer science are integrated with communication studies and visual arts in a powerful and exciting package.

BSc Networks and Security (Co-op)

The networks and security program will focus on the area of computer communications and emphasize issues dealing with network security. The aim of this program is to train students in the fundamentals of Computer Science and then focus on specific issues related to computer networks and network configuration and management. The program, in conformity with other Computer Science programs at the university, also requires a good background in Mathematics and exposure to Arts and Social Sciences. Students graduating from this program should be able to work in the industry as network specialists, developing network software and services. They will also be well-prepared to enter graduate programs for more advanced training in networks.

Admission Requirements

Six Grade 12 U or M courses including Grade 12 U English 1, 12 U Geometry and Discrete Mathematics, and 12 U Advanced Functions and Introductory Calculus. Co-op available in four-year programs, apply during Year 1 at Windsor.

Computer Science Degrees Available at the University of Windsor:

- Bachelor of Computer Science (three- and four-year programs)
- BSc (Computer Information Systems)
- BSc (Computer Science with Artificial Intelligence Specialization)
- BSc (Computer Science with Software Engineering Specialization)
- BSc (Computer Science with Multimedia Specialization – Communication Studies emphasis or Visual Arts emphasis)
- BSc (Computer Science with Networks and Security Specialization)
- BComm (Business and Computer Science)
- BSc Major (Biological Sciences and Computer Science)
- BSc in Geoinformatics

Graduate Degree

- MSc Computer Science
- PhD Computer Science

Produced by Public Affairs and Communications, University Advancement, November 2004

FOR MORE INFORMATION CONTACT:

Office of Liaison & Student Recruitment
University of Windsor
Windsor, Ontario N9B 3P4
Phone: (519) 973-7014
Toll free: (800) 864-2860
(within Canada and US)
E-mail: liaison@uwindsor.ca
Internet: www.uwindsor.ca

School of Computer Science
University of Windsor
Windsor, Ontario N9B 3P4
Phone: (519) 253-3000 Ext. 2991
E-mail: info@cs.uwindsor.ca
Internet: www.uwindsor.ca/computerscience



UNIVERSITY OF
WINDSOR