

Computer Science Course Possibilities @ Waterloo CI

Grade 10 ICS201, Open

No pre-requisite.

Major course topics.

- ⇒ Understanding Computers
- ⇒ Introduction to Programming
- ⇒ Computers and Society

In this course you will learn how to **create mobile applications** in a highly graphical language, Processing.

(Processing is also used on Arduino's in Grade 10 Computer Technology.)



Grade 11 ICS3U University Preparation

ICS2O Highly Recommended, No pre-requisite.

Major course topics

- ⇒ Programming Concepts and Skills
- ⇒ Software Development
- ⇒ Computer Environments and Systems
- ⇒ Topics in Computer Science

In this introductory Computer Science course you will develop your problem solving skills using computer technology.

The course is taught using the Python language and it is designed to provide an entry into the world of computer science for all students.

Python is also one of the major languages used in the

Grade 12 ICS4U University Preparation

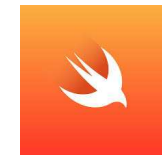
Pre-requisite: ICS3U

Major course topics.

- ⇒ Programming Concepts and Skills
- ⇒ Software Development
- ⇒ Designing Modular Programs
- ⇒ Topics in Computer Science

In this senior Computer Science course you will continue to develop your software development skills with larger collaborative projects.

The course is taught using the Java language using an Object-Oriented approach to software development and Swift language with

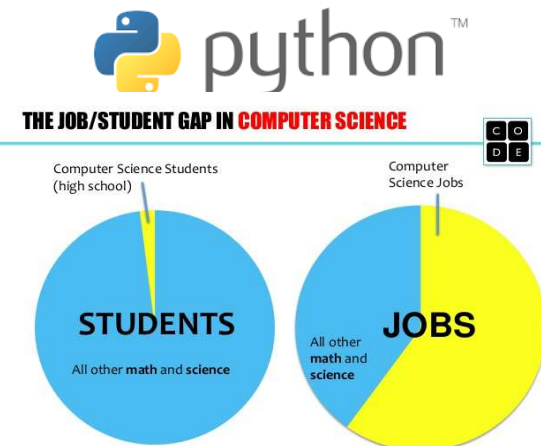


Develop your Project Management and Software Engineering skills.

Improve your knowledge and research skills. (Topics like AI, Internet of things, Big Data, Security and more.)

Transferable

- ⇒ Problem solving
- ⇒ Critical thinking
- ⇒ Collaboration
- ⇒ Creativity
- ⇒ Time management



Sources: College Board, Bureau of Labor Statistics