

NORTH ISLAND COLLEGE INFORMATION SHEET/PROGRAM GUIDE 2021/2022 COMPUTER INFORMATION SYSTEMS CERTIFICATE (CIS)



Learn the essential components of modern information systems including hardware, software, and networking.

You will develop essential skills through extensive hands-on lab exercises and projects. At the end of the certificate program, you will be prepared to enter the IT industry or continue your studies with transfer opportunities to UVic, VIU or Camosun.

The one-year program is designed to be flexible and accessible. Classes are offered online. In addition some face-to-face instruction will take place at purpose-built computer labs in Campbell River, with additional lab space available in the Comox Valley and Port Alberni.

GET EQUIPPED FOR SUCCESS

Most lectures will be delivered online.

If you are attending from home, you need to ensure that you have a reliable Internet connection and a computer capable of running the BlueJeans software as described here:

<https://learnanywhere.opened.ca/digital-technologies/bluejeans/>

You may choose to attend lectures from the Campbell River lab. The classes will be delivered online, so please bring your own headset/microphone.

Course assignments and lab exercises can be completed in the Campbell River lab. The lab features workstations configured as follows:

- Intel Core i5 processor
- 32 GB RAM
- 500 GB SSD
- dual 19" monitors

All software required for the program courses is pre-installed.

You can complete most assignments and lab exercises using a suitably equipped personal desktop or laptop computer.

Specific requirements on a course-by-course basis are detailed on the following pages.

FALL

WINTER

CPS-110 Information Technology Essentials	CPS-101 Computer Programming II
CPS-113 Operating Systems and Architecture	CPS-127 Software Engineering Process
CPS-114 Algorithms and Programming	CPS-128 Web Scripting
DGL-103 HTML and CSS	CPS-129 System Administration
LRN-100 Learning Skills for Technology Students	CPS-146 Database Fundamentals
MAT-156 Applied Math and Statistics for Computing	

COURSE DETAILS

FALL SEMESTER (9/7/2021 - 12/3/2021)

[CPS-110 Information Technology Essentials](#)

Th 1 PM - 4 PM (Digital Lecture). Instructor: Koehler, B
This course only requires BlueJeans and a web browser.

[CPS-113 Operating Systems and Architecture](#)

W 1 PM - 5 PM (Campbell River, C Wing 281) Instructor: Koehler, B
To work from home, you will need a computer capable of running the VirtualBox software.
(https://www.virtualbox.org/wiki/End-user_documentation)

In addition to the minimum system requirements for the software, your computer should probably have a minimum of 16GB of RAM and 200GB of free disk space. This course also has a networking lab assignment that can only be completed in the Campbell River lab. You should plan to attend the Campbell River lab at least once during the Fall semester to complete this lab assignment.

[CPS-114 Algorithms and Programming](#)

T 8:30 AM - 12:30 PM (Digital Lecture) Instructor: Koehler, B
This course only requires BlueJeans and a web browser.

[DGL-103 HTML and CSS](#)

F 8:30 AM - 12:30 PM (Digital Lecture). Instructor: Best, B.
In addition to requiring BlueJeans and a web browser, this course also requires VS Code and Github Desktop. To work from home, you will need a Mac or PC (not a phone or a tablet) capable of running these applications, which you will need to download and install.

[LRN-100 Learning Skills for Technology Students](#)

Th 10 AM - 12 PM (Digital Lecture). Instructor: TBA
This course only requires BlueJeans and a web browser.

[MAT-156 Applied Math and Statistics for Computing](#)

M/W 8:30 AM - 10 AM + F 1 PM - 3 PM (Digital Lecture). Instructor: Diemer, J.
This course requires only BlueJeans (requires a webcam) and a web browser. A headset/microphone is recommended.

COURSE DETAILS

WINTER (01/10/2022 - 04/08/2022)*

[CPS-101 Computer Programming II](#)

F 1 PM - 5 PM (Digital Lecture). Instructor: TBA
This course only requires BlueJeans and a web browser.

[CPS-127 Software Engineering Process](#)

M 1 PM - 5 PM (Digital Lecture). Instructor: TBA.
Depending on the project, it is possible that this course could be completed only with a web browser.

[CPS-128 Web Scripting](#)

Th 1 PM - 5 PM (Digital Lecture). Instructor: Koehler, B
This course only requires BlueJeans and a web browser.

[CPS-129 System Administration](#)

W 8:30 AM - 12:30 PM (Digital Lecture). Instructor: TBA
To work from home, you will need a computer capable of running the VirtualBox software (https://www.virtualbox.org/wiki/End-user_documentation). In addition to the minimum system requirements for the software, your computer should probably have a minimum of 16GB of RAM and 200GB of free disk space.

[CPS-146 Database Fundamentals](#)

T 8:30 AM - 12:30 PM (Digital Lecture). Instructor: Koehler, B
To work from home, you will need a computer capable of running the MySQL Workbench software (<https://www.mysql.com/products/workbench/>).

* Days/times and instructor(s) subject to change. Please check online course schedule for the most up-to-date information.

LAB SPACES AT NIC

You will be able to use NIC computer labs to complete course assignments. Lab space has been made available at the Campbell River, Comox Valley and Port Alberni campuses. Please bring your own headset/microphone.

Campbell River Campus: C Wing, Room 281

The lab in Campbell River is reserved exclusively for CIS program students. Program students will be able to access this lab space for the duration of the program. Lab hours will be communicated to you prior to the start of the program in September.

[CLICK HERE](#) to view a map of the NIC Campbell River campus

Comox Valley Campus: Library and computer lab rooms (TYE 114 and TYE 121)

Students can use computer terminals located in the Library, in the general use labs, on a drop-in basis. Please visit the Library webpage for hours of operation and availability. Computer lab room will be open and available to CIS students on a first-come-first served basis during general use hours. CIS program students will have priority access to TYE 114 Mondays 8:30 – 11:30 am and Fridays 1:00 – 4:00 pm, throughout the academic year.

[CLICK HERE](#) to view a map of the NIC Comox Valley campus

Port Alberni Campus: Library and Room No. N 113

This lab room will be available to NIC students, including CIS students, during the week (when 'open'). The room has been reserved for CIS students only, Mondays 8:30 – 11:30 am and Fridays 1:00 – 4:00 pm for the whole academic year. There are computer terminals located in the Library and in some public areas available on a drop-in basis.

[CLICK HERE](#) to view the NIC Port Alberni campus webpage