

SAMPLE COURSE OUTLINE

Course Code, Number, and Title:

CPSC 2401: Digital Systems Design

Course Format:

[Course format may vary by instructor. The typical course format would be:]

Lecture 4 h + Seminar 0 h + Lab 2 h

Credits: 3

Transfer credit: For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

Develops an understanding of computer electronics from the bottom up; starting with binary numbers and codes, moving through switch, gate, and register levels and concluding with an introduction to system architecture. Topics will include binary arithmetic and codes, combinational design, PLDs, two-level minimization, the K-Map method, multiplexers, decoders, adders, subtractors, sequential circuit concepts and design; delays and latches; triggering methods, flip-flops, and clocking issues. Register-level design and Architecture-level design; Basic computer organization, and microprocessor-based systems. Students will develop a major lab project for this course.

Prerequisite(s): CPSC 1401 and a minimum "C" grade in one of CPSC 1150 or 1155; or permission of department. Prerequisites are valid for only three years.

Learning Outcomes:

Upon successful completion of this course, students will be able to:

Information unavailable, please consult Department for details

Instructor(s): TBA

Office: TBA **Phone:** 604 323 XXXX **Email:** TBA

Office Hours: TBA

Textbook and Course Materials:

[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:]

Summer 2019:

For textbook information, visit https://mycampusstore.langara.bc.ca/buy_courselisting.asp?selTerm=3|8

snəwəyət̓ leləm̓ Langara College acknowledges that we are located on the unceded territory of the Musqueam people.

Note: *This course may use an electronic (online) instructional resource that is located outside of Canada for mandatory graded class work. You may be required to enter personal information, such as your name and email address, to log in to this resource. This means that your personal information could be stored on servers located outside of Canada and may be accessed by U.S. authorities, subject to federal laws. Where possible, you may log in with an email pseudonym as long as you provide the pseudonym to me so I can identify you when reviewing your class work.*

Assessments and Weighting:

Final Exam %

Other Assessments %

(An example of other assessments might be:) %

Information currently unavailable, please consult Department for details

Grading System:

Specific grading schemes will be detailed in each course section outline.

Information currently unavailable, please consult Department for details

Topics Covered:

[Topics covered may vary by instructor. An example of topics covered might be:]

Information currently unavailable, please consult Department for details

As a student at Langara, you are responsible for familiarizing yourself and complying with the following policies:

College Policies:

[E1003 - Student Code of Conduct](#)

[F1004 - Code of Academic Conduct](#)

[E2008 - Academic Standing - Academic Probation and Academic Suspension](#)

[E2006 - Appeal of Final Grade](#)

[F1002 - Concerns about Instruction](#)

[E2011 - Withdrawal from Courses](#)

Departmental/Course Policies:

This generic outline is for planning purposes only.