



# Website Development – CIST 103

## Computer Information Systems Technology Program

### Course Outline

COURSE IMPLEMENTATION DATE: September 2024  
OUTLINE EFFECTIVE DATE: September 2024  
COURSE OUTLINE REVIEW DATE: March 2029

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#### GENERAL COURSE DESCRIPTION:

This course covers the fundamentals of website development and design using Hypertext Markup Language (HTML), Cascading Style Sheets (CSS), and JavaScript. Students will learn how to create structured websites using HTML; how to use the most up to date CSS styles to create responsive, visually-interesting pages and captivating graphical designs; and how to implement client-side script using basic concepts in JavaScript to access Document Object Model (DOM) elements, to validate web forms, and to perform site management.

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**Program Information:** This course is required for the first year of the Computer Information Systems Technology program.

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**Delivery:** This program is delivered hybrid (includes both face-to-face and online components).

**COTR Credits:** 3

**Hours for this course:** 60 hours

#### Typical Structure of Instructional Hours:

Instructional Activity	Duration
Lecture Hours	30
Seminars / Tutorials	
Laboratory / Studio Hours	30
Practicum / Field Experience	
Other Contact Hours	
<b>Total</b>	<b>60</b>

#### Practicum Hours (if applicable):

Type of Practicum	Duration
On-the-Job Experience	
Formal Work Experience	
Other	
<b>Total</b>	<b>N/A</b>

**Course Outline Author or Contact:**

Chizoba Anoliefo, BSc, MEng

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Signature

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**APPROVAL SIGNATURES:**

Department Head  
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Department Head Signature

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Dean Signature

EDCO

Valid from: September 2024 – March 2029

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Education Council Approval Date

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**COURSE PREREQUISITES AND TRANSFER CREDIT:**

**Prerequisites:** Admission to the Computer Information Systems Technology Diploma Program

**Corequisites:** None

**Flexible Assessment (FA):**

Credit can be awarded for this course through FA  Yes  No

Learners may request formal recognition for flexible assessment at the College of the Rockies through one or more of the following processes: External Evaluation, Worksite Assessment, Demonstration, Standardized Test, Self-assessment, Interview, Products/Portfolio, Challenge Exam. Contact an Education Advisor for more information.

**Transfer Credit:** For transfer information within British Columbia, Alberta and other institutions, please visit <http://www.cotr.bc.ca/Transfer>.

Student should also contact an academic advisor at the institution where they want transfer credit.

**Prior Course Number:** N/A

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## **Textbooks and Required Resources:**

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

Resources available digitally through the online platform.

Please see the instructor's syllabus or check COTR's online text calculator <https://textbook.cotr.bc.ca/> for a complete list of the currently required textbooks.

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## **LEARNING OUTCOMES:**

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

- create hypertext documents using Hyper Text Markup Language (HTML) in ways that reflect principles of structured web content development;
  - design visually appealing web pages by effectively utilizing fonts, colors, graphics, tables, columns and multimedia resources to enhance user engagement and aesthetics;
  - implement responsive and visually consistent website design by leveraging Cascading Style Sheets (CSS) for formatting and presentation;
  - select and use appropriate tools to provide consistent website design;
  - use Extensible Markup Language (XML) to develop web documents;
  - develop interactive web forms, enabling user input and data submission;
  - identify introductory JavaScript features such arrays, loops, and conditional statements; and
  - implement basic client-side programming using JavaScript for accessing DOM elements and processing form data.
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## **COURSE TOPICS:**

- The basics of the World Wide Web and HyperText Markup Language (HTML)
- Hypertext documents
- Web pages: fonts, colours and graphics
- Web pages: multimedia resources
- Web pages: tables
- XML
- Cascading Style Sheets (CSS)
- Web page: forms
- Intelligent websites using JavaScript
- Client-Server, DOM

*See instructor's syllabus for the detailed outline of weekly readings, activities and assignments.*

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## EVALUATION AND ASSESSMENT (Face-to-Face Delivery):

Assignments	% of Total Grade
Assignments (x5)	50%
Midterm Exam	25%
Final Exam	<u>25%</u>
Total	100%

Please see the instructor's syllabus for specific classroom policies related to this course, such as details of evaluation, penalties for late assignments and use of electronic aids.

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### EXAM POLICY:

Students must attend all required scheduled exams that make up a final grade at the appointed time and place.

Individual instructors may accommodate for illness or personal crisis. Additional accommodation will not be made unless a written request is sent to and approved by the appropriate Department Head prior to the scheduled exam.

Any student who misses a scheduled exam without approval will be given a grade of "0" for the exam.

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### COURSE GRADE:

Course grades are assigned as follows:

Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F
Mark (Percent)	≥ 90	89-85	84-80	79-76	75-72	71-68	67-64	63-60	59-55	54-50	< 50

A grade of "D" grants credit but may not be sufficient as a prerequisite for sequential courses.

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### ACADEMIC POLICIES:

See [www.cotr.bc.ca/policies](http://www.cotr.bc.ca/policies) for general college policies related to course activities, including grade appeals, cheating and plagiarism.

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### COURSE CHANGES:

Information contained in course outlines is correct at the time of publication. Content of the courses is revised on an ongoing basis to ensure relevance to changing educational, employment and marketing needs. The instructor endeavours to provide notice of changes to students as soon as possible. The instructor reserves the right to add or delete material from courses.