



## CIST-103 – Website Development

### Technology

**Effective Term & Year:** Fall 2024  
**Course Outline Review Date:** 2029-03-01

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**Program Area:** Information Technology

#### 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.

**Delivery Methods:** Hybrid – On-campus (Face-to-Face) and Online

**Credit Type:** College of the Rockies Credits

**Credits:** 3

#### Instructional Activity and Hours:

Activity	Hours
Classroom, Directed Studies or Online Instruction	30
Seminar/Tutorials	
Laboratory/Studio	30

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Practicum/Field Experience	
Co-op/Work Experience	
Other	
<b>Total</b>	<b>60</b>

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**Course Requisites:**

- Admission to the Computer Information Systems Technology Diploma Program

**Flexible Assessment:** Yes

Students are able to request formal recognition of their prior learning or experience outside the classroom. Challenge examination, portfolio-assisted assessment, or work-based assessment are used to identify, assess, and recognize prior skills, competencies, and knowledge to achieve course credit. Tuition fees apply, refer to Policy [2.5.5 Prior Learning Assessment and Recognition \(PLAR\)](#) or contact an education advisor for more information.

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**Course Transfer Credit:**

For information about receiving transfer credit for courses taken at either British Columbia or Alberta institutions, please see <https://www.bctransferguide.ca/> or <https://transferalberta.alberta.ca> . For more transfer credit information, please visit <https://www.cotr.bc.ca/Transfer>

All requests for course transfer credit from institutions in British Columbia or elsewhere should go to the College of the Rockies Enrolment Services office.

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**Textbook 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 Assessments

### Assessment Type: On-Campus (face-to-face)

#### Assessment Type

#### % of Total Grade

Assignments (x5)	50%
Midterm Exam	25%
Final Exam	25%
Total	100%

## Grade Scheme

A+	A	A-	B+	B	B-	C+	C	C-	D	F
>=90	89-85	84-80	79-76	75-72	71-68	67-64	63-60	59-55	54-50	<50

**Evaluation Notes:** A grade of “D” grants credit, but may not be sufficient as a prerequisite for sequential courses.

### Evaluation Notes Comments:

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.

### Exam Attendance:

Students must attend all scheduled exams at the appointed time and place. Instructors may approve an alternate exam to accommodate an illness or personal crisis. Department heads will consider other written requests. Any student who misses a scheduled exam without prior approval will receive a “0” on the exam.

### Academic Policies:

College of the Rockies policies related to courses can be found at <https://cotr.bc.ca/about-us/college-policies/> and include the following:

- Policy 2.1.4 Course Audit
- Policy 2.4.1 Credential Framework
- Policy 2.4.3 Students with Documented Disabilities
- Policy 2.4.4 Student Rights, Responsibilities and Conduct
- Policy 2.4.8 Academic Performance
- Policy 2.4.9 Student Feedback and Concerns
- Policy 2.4.11 Storage of Academic Works
- Policy 2.5.3 Student Appeal
- Policy 2.5.5 Prior Learning Assessment and Recognition (PLAR)

### Course Changes:

The College of the Rockies updates course outlines regularly to meet changing educational,

employment and marketing needs. The instructor will notify students in writing of any updates to this outline during the semester. The instructor reserves the right to revise, add or delete material while meeting the learning outcomes of this course outlin