

COURSE SYLLABUS



COURSE TITLE: COMP144 Web Development
CLASS SECTION: X01A, X01B
TERM: Fall 2023
COURSE CREDITS: 3
DELIVERY METHOD(S): Face-to-face

Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here. Learn more about Camosun's [Territorial Acknowledgement](#).

For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>.

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.

INSTRUCTOR DETAILS

NAME: Brandon Devnich
EMAIL: devnichb@camosun.bc.ca
OFFICE: TEC 240
HOURS: Tuesdays 9:30-2:30

As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.

CALENDAR DESCRIPTION

Students will obtain a solid foundation in general computer concepts and a practical exposure to the computer. Topics include: computer terminology and environment, computer applications and usage as well as a brief introduction to programming. Some sections designated for particular programs will include examples relevant to those programs.

PREREQUISITE(S): One of C in English 12 or C in English 12 Camosun Alternative
One of: C+ In Pre-calculus 11, C in Math 12, C in Apprenticeship Math 12, C+ in Math 073, C+ in Math 077, C+ in Math 137, C in Math 097, C in Math 139

CO-REQUISITE(S): -

EXCLUSION(S): -

COURSE LEARNING OUTCOMES / OBJECTIVES

Upon successful completion of this course a student will be able to:

- Demonstrate a basic understanding of the fundamental technologies of the internet (HTTP,TCP/IP, DNS), browsers, domains, URLs, and web servers.
- Demonstrate basic proficiency in using HTML to develop web content
- Demonstrate proficiency in using HTML 5 to develop web content
- Demonstrate proficiency in using CSS 3 for web page layout and design.
- Demonstrate an understanding of human-computer interaction (HCI), visual design, and usability principles
- Demonstrate basic proficiency using web development tools to build web sites
- Demonstrate the ability to connect to college servers remotely using SSH to upload and manage web content.
- Explain the concept of relational databases (RDBMS)
- Understand the terminology associated with relational databases
- Understand Structured Query Language (SQL)
- Retrieve information from an industry-standard RDBMS using SQL
- Demonstrate SQL usage for filtering data in a SELECT statement
- Demonstrate SQL usage for using arithmetic expressions to perform calculations
- Demonstrate SQL usage by viewing table structure, editing a SQL statement, saving and running scripts, formatting columns, defining and using variables, and creating reports
- Demonstrate the ability to use simple RDBMS built-in functions (for example, computing averages or square root)
- Demonstrate SQL usage for storing and processing dates and times within an industry standard RDBMS
- Demonstrate SQL usage for changing the content in a relational database, including the INSERT, UPDATE, and DELETE statement

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

- Materials on the D2L course page:
 - presentation slides for lectures, lab assignment instructions for labs, etc. see <https://online.camosun.ca/d2l/home/264088>
- Materials on the COMP 144 course page:
 - Code snippets for quick access <https://144.compsci.cc>
- Required Textbooks
 - None
- Recommended Hardware
- Although not required, a personal laptop would be an asset.

General Schedule

The course will meet in-person, four times per week over a 14-week semester. Each week will consist of three one-hour lectures and one two-hour lab. Additional time over and above the allotted lab time may be required to complete lab assignments.

Lectures will be delivered in-person at regular times. Recordings of lectures may be made available. Labs will be assigned and then due before the next scheduled lab block.

Please see lecture and lab schedule at <http://my.camosun.ca> for detailed information about class hours and locations. Please consult the calendar tool in D2L frequently for any updates.

Topics

Lectures will contain topics that will help you complete the weekly lab. These topics will teach you the basics of web development using HTML & CSS, as well as experience working with relational databases. Please see course schedule and topics table below for more detail.

Activities

During lectures, you will have the opportunity to participate in in-class code practice. You will receive a bonus participation mark, worth up to 5%, upon completion of the course, based upon the number of in-class examples you participate in. You will submit these up to your allocated course web space.

There will be weekly at-home open-book quizzes to reinforce your comprehension of course material covered during the week. You will have unlimited opportunities to complete each quiz before their weekly due date.

The instructor will be available, in person, during the regularly scheduled lab times. While labs can be done from home, provided you have an internet connection, students who attend lab in-person will receive priority assistance.

There will be two mid-term projects that will function to assess your understanding of HTML and CSS and the Bootstrap CSS framework.

Expected Workload

For highest results, you should expect to spend, outside of scheduled lecture and lab times, on average an additional 1 hour daily (or 7 hours weekly) to complete lab assignments, practice examples, review material, and complete quizzes. During the two mid-term projects, you should expect to invest a significant amount more time in order to achieve the highest of marks.

Evaluation

You will be evaluated regularly through the at-home quizzes, and completion of the weekly labs. Building towards the final exam, you will complete the term projects which will further give you practice applying the knowledge you acquire through the course. At the end of the course, you will complete a theoretical and practical exam.

Schedule of Sessions and Topics

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

The content of lectures is organized around:

- Week 1: Introduction to the Internet & HTML [Lab 1]
- Week 2: HTML Basics [Lab 2]
- Week 3: HTML Forms [Lab 3]
- Week 4: Introduction to CSS [Lab 4]
- Week 5: CSS Continued [Lab 5]
- Week 6: HCI and UI [Lab 6]
- Week 7: ePortfolio [Mid-Term Project 1]
- Week 8: Bootstrap [Mid-Term Project 1]
- Week 9: DBMS [Mid-Term Project 2]
- Week 11: Simple Queries [Lab 7]
- Week 10: Joins
- Week 12: Sub Queries [Lab 8]
- Week 13: MySQL Schema [Lab 9]
- Week 14: Review

There will be a weekly quiz based on the topics covered in the previous week's lectures.

Topics of the assignments will include:

- Lab 1: Connecting to College Servers
- Lab 2: Basic HTML Web Page
- Lab 3: Basic HTML Web Site
- Lab 4: HTML Forms
- Lab 5: Responsive Web Page
- Lab 6: Flexbox
- **Term Project 1: HTML/CSS Portfolio Page [2 Weeks]**
- **Term Project 2: Bootstrap Portfolio Page [1 Week]**
- Lab 7: Getting Started with MySQL & Configuring Workbench
- Lab 8: Working with JOINS with MYSQL Workbench
- Lab 9: GROUP BY/HAVING, Modifying Data with MYSQL Workbench

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Week	Topics	Quiz	Labs
1	Introduction	Q1: W1 Internet	Lab 01: Connecting to College Servers
2	HTML Basics	Q2: W2 HTML	Lab 02: Basic HTML Web Page
3	HTML Forms	Q3: W3 Forms	Lab 03: Basic HTML Web Site
4	Introduction to CSS	Q4: W4 CSS	Lab 04: HTML Forms
5	Layouts using CSS	Q5: W5 CSS	Lab 05: Responsive Web Page
6	HCI & UI	Q6: W6 HCI	Lab 06: Flexbox
7	ePortfolio	Q7: W7 ePortfolio	Project 01: HTML/CSS Portfolio
8	Bootstrap	Q8: W8 Bootstrap	
9	DBMS	Q9: W9 DBMS	Project 02: Bootstrap Portfolio
10	Simple Queries	Q10: W10 Simple Queries	Lab 07: Getting Started with MySQL & MySQL Workbench
11	Joins	Q11: W11 Joins	
12	Sub Queries	Q12: W12 Sub Queries	Lab 08: Joins
13	MySQL Schema	Q13: W13 MySQL Schema	Lab 09: Group BY/HAVING, Modifying Data
14	Review	Q14: Review	

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
Lab Assignments Must achieve a 55% minimum average and complete all labs.	20%
Quizzes Fourteen, at-home open book quizzes. Unlimited opportunities to complete each quiz.	10%
Mid-Term Projects Mandatory 55% completion on each project.	20%
Final Exams Closed-book theoretical worth 15% & Open-book practical worth 35%. Must have a combined minimum average of 55% to pass the course.	50%
	TOTAL 100%
Lecture Participation Completion of 15 lecture in-class examples.	5% BONUS

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information.
<http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

COURSE GUIDELINES & EXPECTATIONS

Late assignments and/or labs will not be accepted, except by the instructor's prior written permission or in the presence of a dire and documented short-term medical or family emergency. Student must complete all labs and projects.

Students must achieve each of the following:

- a **minimum** average of **55%** on labs assignments
- a **minimum** average **55%** on each of the projects
- a **minimum** average of **65%** on the final practical exam

to pass the course.

All quizzes are open book and can be completed twice.

SCHOOL OR DEPARTMENTAL INFORMATION

Supplemental department policies:

Grade review: You have 7 days after marks are posted to review with your instructor.

Academic Integrity Violations:

- 1st violation: **minus the weight of the deliverable and a note on your departmental file.**
- 2nd violation: F in the course
- 3rd violation: Student Conduct Policy E-2.5 is applied

Missed Examinations/Quizzes: If a student misses a quiz, project or an exam, a mark of zero will be assigned unless there are extenuating circumstances. You must provide a note from a medical practitioner (Doctor, Nurse, Psychologist, Counsellor, etc.) In such cases, the proportion of grade assigned to the missed quiz or exam will be added to the proportion assigned to the final exam. The final exam will be held during exam week. NO consideration will be given to any student wishing to write the exam at any other time than that assigned.

Electronic Devices: The school's policy regarding electronic devices is that any student who has a cell phone or other unauthorized electronic device (ie. ipad, laptop, playbook, etc.) on their person or around their desk during an exam will be guilty of cheating and will a grade of "F" for the course.

STUDENT RESPONSIBILITY

Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

SUPPORTS AND SERVICES FOR STUDENTS

Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	http://camosun.ca/advising
Accessible Learning	http://camosun.ca/accessible-learning
Counselling	http://camosun.ca/counselling
Career Services	http://camosun.ca/coop
Financial Aid and Awards	http://camosun.ca/financialaid
Help Centres (Math/English/Science)	http://camosun.ca/help-centres
Indigenous Student Support	http://camosun.ca/indigenous

Support Service	Website
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
Library	http://camosun.ca/services/library/
Office of Student Support	http://camosun.ca/oss
Ombudsperson	http://camosun.ca/ombuds
Registration	http://camosun.ca/registration
Technology Support	http://camosun.ca/its
Writing Centre	http://camosun.ca/writing-centre

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started: <http://camosun.ca/services/accessible-learning/>

Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures” (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun’s Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student’s right to choose what is right for them. For more information see Camosun’s Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and camosun.ca/sexual-violence. To contact the Office of Student Support: oss@camosun.ca or by phone: 250-370-3046 or 250-3703841

Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College’s Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

Changes to this Syllabus: Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.