COURSE SYLLABUS

COURSE TITLE: ICS 211 Web Applications

CLASS SECTION: All Sections

TERM: Fall 2023

COURSE CREDITS: 3

DELIVERY METHOD(S): Blended, In-class and D2L

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

INSTRUCTOR DETAILS

NAME: Jason Cumiskey

EMAIL: cumiskey@camosun.ca

OFFICE: TEC249

OFFICE HOURS: MON 2:30PM – 3:20PM (X01), WED 1:30 PM – 2:20PM (X02), OR by Appt.

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

Learn web technologies to create dynamic and interactive web applications. You will learn the underlying client- and server-side web technologies to create dynamic web applications.

PREREQUISITE(S): C in ICS 121 or ICS 128; C in ENGR 155 or ICS 125

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

a) TEXT: No formal textbook required. Links to Online resources and suggested books will be provided.
b) OTHER: Although not required, a personal laptop would be an asset.

COURSE LEARNING OUTCOMES / OBJECTIVES

a) Design, implement and test a web application using current web technologies including client-side markup, server-side programming for data processing and authentication techniques.;
b) Describe the major areas and challenges of web programming;
c) Explain the function of each web application component using domain-specific terminology;
d) Describe different security issues with web applications and apply the appropriate technique to secure data integrity; and
e) Apply accepted standards to ensure security, privacy, and integrity of data while recognizing the ethical, legal, and social implications of web applications.

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

WEEK or DATE RANGE	ACTIVITY or TOPIC	OTHER NOTES
1 (Sept 4 – MON holiday)	Course Outline; Intro to VSC; Intro to Web Apps	No Labs
2 (Sept 11)	AJAX, SOP, and the DOM; Intro to Markdown, YAML	Lab 1 assigned
3 (Sept 18)	Intro to React; Intro to JSX	Lab 1 Due, Lab 2 assigned
4 (Sept 25)	React Components; ES6 Arrow Functions; Object Destructuring	Lab 2 Due, Lab 3 assigned
5 (Oct 2 – MON holiday)	map() and React; Styling Components; Review	Lab 3 Due, Lab 4 assigned
6 (Oct 9 – MON holiday)	Term Test 1 X02 Wed OCT 11	Lab 4 Due, Lab 5 assigned
7 (Oct 16)	Term Test 1 X01 Mon Oct 16; No Wed Lecture X02	
8 (Oct 23)	Intro to React Hooks; Component Lifecycle; Stateful Components; JSON; Async Programming; ES6 Promises	Lab 5 Due, Lab 6 assigned
9 (Oct 30)	Fetching Data; Effect Hook; DOM Events; Forms in React	Lab 6 Due, Lab 7 assigned
10 (Nov 6)	Form Submission; Conditional Rendering	Lab 7 Due, Lab 8 Part 1 assigned
11 (Nov 13 – MON holiday)	In-class-exercise; CS State Management; Context API	Lab 8 Part 1 Due, Lab 8 Part 2 assigned
12 (Nov 20)	Term Test 2, X01 Mon NOV 20, X02 Wed NOV 22	
13 (Nov 27)	UX Design; Client-side Routing; SS State Management	Lab 8 Part 2 Due, Lab 9 assigned
14 (Dec 4)	Review	Lab 9 Due
15 (Dec 11)	Final Exam Week	Date and Time TBA

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 noticed is required. Deadlines can be reviewed on the CAL exams page. https://camosun.ca/services/academic-supports/accessible-learning/academic-accommodations-exams

EVALUATION OF LEARNING

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DESCRIPTION	WEIGHTING
Labs: You must complete all labs to pass the course. **You must achieve a minimum average of 55% on the labs**.	20%
Term Tests: There will be two Term Tests each worth 15%. **You must complete both Term Tests to pass the course**.	30%
Final Exam: Combined D2L Theoretical Test and Practical Programming Exercise. **You must achieve a combined minimum average of 55% on the Final Exam to pass the course**.	50%
TOTAL	100%

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 policy for more information. https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf

COURSE GUIDELINES & EXPECTATIONS

You can hand in Labs up to one week late from their due date/time at a 50% penalty. After one week late, you will be graded a zero but MUST STILL COMPLETE ALL LABS TO PASS THE COURSE. Exceptions will ONLY be given for dire and documented short-term medical or family emergencies.

SCHOOL OR DEPARTMENTAL INFORMATION

https://camosun.ca/programs-courses/find-program/information-and-computer-systems-technician-certificate

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	https://camosun.ca/services/academic-supports/academic-advising
Accessible Learning	https://camosun.ca/services/academic-supports/accessible-learning
Counselling	https://camosun.ca/services/health-and-wellness/counselling-centre
Career Services	https://camosun.ca/services/co-operative-education-and-career-services
Financial Aid and Awards	https://camosun.ca/registration-records/financial-aid-awards

Support Service	Website
Help Centres (Math/English/Science)	https://camosun.ca/services/academic-supports/help-centres
Indigenous Student Support	https://camosun.ca/programs-courses/iecc/indigenous-student-services
International Student Support	https://camosun.ca/international
Learning Skills	https://camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills
Library	https://camosun.ca/services/library
Office of Student Support	https://camosun.ca/services/office-student-support
Ombudsperson	https://camosun.ca/services/ombudsperson
Registration	https://camosun.ca/registration-records/registration
Technology Support	https://camosun.ca/services/its
Writing Centre	https://camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills

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 Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: https://camosun.libguides.com/academicintegrity/welcome
Please visit https://camosun.ca/sites/default/files/2021-05/e-1.13.pdf for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

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 Progress

Please visit https://camosun.ca/sites/default/files/2023-02/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 https://camosun.ca/sites/default/files/2021-05/e-2.2.pdf for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit https://camosun.ca/registration-records/tuition-fees#deadlines.

Grading Policy

Please visit https://camosun.ca/sites/default/files/2021-05/e-1.5.pdf for further details about grading.

Grade Review and Appeals

Please visit https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf for policy relating to requests for review and appeal of grades.

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 (see policy). Please visit https://camosun.ca/services/forms#medical 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: https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf and https://camosun.ca/services/sexual-violence-support-and-education. To contact the Office of Student Support: oss@camosun.ca or by phone: 250-370-3046 or 250-370-3841.

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 https://camosun.ca/sites/default/files/2021-05/e-2.5.pdf to understand the College's expectations of academic integrity and student behavioural conduct.

Looking for other policies?

The full suite of College policies and directives can be found here: https://camosun.ca/about/camosun-college-policies-and-directives

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.