CAMOSUN COLLEGE
Trades and Technology
Computer Science

ICS 211
Web Applications
Fall 2020

COURSE OUTLINE

The calendar description is available on the web
@   http://camosun.ca/learn/calendar/current/web/ics.html#ICS211

Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

1. Instructor Information

(a) Instructor	Jason Cumiskey	
(b) Office hours	Due to COVID19, I will not be on campus	
(c) Location	~~TEC249~~ Due to COVID19, I will not be on campus	
(d) Phone	Use email	**Alternative:**
(e) E-mail	cumiskey@camosun.bc.ca	
(f) Website	http://online.camosun.ca/ (D2L)	

2. Intended Learning Outcomes

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.

3. Required Materials

(a) Texts
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.

4. Course Content and Schedule

The Content and Schedule that follows is tentative. *The content and schedule can change at any time based on students' progress through the course and/or other incidentals.*

Week	Week of	Topic	Delivery
1	Sept 8 (MON holiday)	Intro to Web Apps	Lab 0
2	Sept 14	VSC, JS Review	Lab 1
3	Sept 21	DOM, SOP, AJAX, CORS	Lab 2
4	Sept 28	Node, NPM, JSON, YAML	Lab 3
5	Oct 5	Intro to React	Term Test #1
6	Oct 13 (MON holiday)	JSX, React Components	Lab 4
7	Oct 19	Advanced JS, Styling Components	Lab 5
8	Oct 26	React State	Lab 6
9	Nov 2	Promises and fetch	Lab 6 con.'t
10	Nov 9 (WED holiday)	Events and Forms	Lab 7
11	Nov 16	Create React App, React Router	Lab 8
12	Nov 23	Testing	Term Test #2
13	Nov 30	UI Libraries	Lab 8
14	Dec 7	D2L "Written" Exam	
15	Dec 14	Practical Final Exam	

5. Basis of Student Assessment (Weighting)

(a) Labs (20% of grade)

You must complete all labs to pass the course.
You must achieve a minimum average of 55% on the labs.

You can hand in Labs up to 1 week late from their due date/time at a 50% penalty. After 1 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

(c) Term Tests (30% of grade)

You must complete both Term Tests to pass the course. *Due to COVID19, these will be at-home, open-book time-limited exams in D2L.*

(d) Final Exam (50% of grade)

15% is Written Exam, 35% is Practical Exam. *Due to COVID19, the written exam will be an at-home, open-book timed exam in D2L. The practical exam will be a time-limited coding project.*
You must achieve a combined minimum average of 55% on the Final Exam to pass the course.

6. Grading System

| X | Standard Grading System (GPA) |
| | Competency Based Grading System |

7. Recommended Materials to Assist Students to Succeed Throughout the Course

Links to online resources and references to books will be provided in the labs and lectures.

8. College Supports, Services and Policies

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Immediate, Urgent, or Emergency Support
If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ http://camosun.ca/about/mental-health/emergency.html or http://camosun.ca/services/sexual-violence/get-support.html#urgent

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

        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 or an exam, a mark of zero will be assigned unless there are extenuating circumstances. 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.

College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at http://camosun.ca/

College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at http://camosun.ca/about/policies/. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

A. **GRADING SYSTEMS** *http://www.camosun.bc.ca/policies/policies.php*

The following two grading systems are used at Camosun College:

1. Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D		1
0-49	F	Minimum level has not been achieved.	0

2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

B. **Temporary Grades**

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy at http://www.camosun.bc.ca/policies/E-1.5.pdf for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	*Incomplete*: A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	*In progress*: A temporary grade assigned for courses that are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
CW	*Compulsory Withdrawal*: A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.