CAMOSUN COLLEGE
School of Trades and Technology
Information and Computer Systems

COMP 144
Web Development
Fall 2020

COURSE OUTLINE

The calendar description is available on the web @ \quad http://camosun.ca/learn/calendar/current/web/comp.html

Ω *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**	Benjamin Leather	
(b)	**Office hours**	By request	
(c)	**Location**		
(d)	**Phone**	250-885-6966	**Alternative:**
(e)	**E-mail**	LeatherB@camosun.bc.ca	
(f)	**Website**		

2. Intended Learning Outcomes

- 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 statements

3. Required Materials

None

4. Course Content and Schedule (Tentative)

	Lecture	**Lab**	
Week 1 Sept 8-11	Course Outline, Introduction, logistics Intro to the internet HTML Basics		
Week 2 Sept 14-18	HTML Basics II, Lists, Tables, Images	**Lab 1** Create simple HTML documents on college server – creating a simple HTML web page.	
Week 3 Sept 21-25	HTML Forms	**Lab 2** Creating simple HTML pages using non-WYSIWIG editor (Notepad++)	
Week 4 Sept 28-Oct 2	CSS	**Lab 3** Creating a form using HTML 5 elements and attributes, validate using HTML5	
Week 5 Oct 5-9	CSS/HCI	**Lab 4** Create a responsive website using HTML and CSS – Part 1	
Week 6 Oct 12-16	Bootstrap	**Lab 5** Create a responsive website using HTML and CSS – Part 2	
Week 7 Oct 19-23	Midterm Exam (20%)	**Lab 6** Using Bootstrap	
Week 8 Oct 26-30	Wordpress	**Lab 7** Creating an ePortfolio using Wordpress	
Week 9 Nov 2-6	Introduction to SQL – introduction to the Relational model, different DBs, relational algebra	**Lab 7** Continued.	
Week 10 Nov 9-13	MySQL – Intro to MySQL, retrieving data using simple SELECT queries, built-in functions, simple JOINs	**Lab 7** Continued	
Week 11 Nov 16-20	MySQL – retrieving data – using JOINs – complex queries, ORDER BY	**Lab 8** Basic SQL queries, connecting to deepblue, running queries from command line.	
Week 12 Nov 23-27	MySQL – GROUP BY/HAVING, subqueries, adding, deleting, modifying data (INSERT, UPDATE, DELETE)	**Lab 9** Connecting to DB using MySQL Workbench. Queries, simple JOINs using MySQL Workbench	
Week 13 Nov 30-Dec 4	MySQL – primary/foreign key creation, auto-increment, creating/altering tables	**Lab 10** Complex JOINs, GROUP BY/HAVING using MySQL Workbench	
Week 14 Dec 7-11	Final Exam Review (for comprehensive final exam)	**Lab 11** Adding, deleting, modifying table data.	

5. Basis of Student Assessment (Weighting)
(Should be directly linked to learning outcomes.)

Labs	60%
Midterm Exam	20%
Final Exam	20%

NOTE: ePortfolio Lab (Lab 07) is worth 10% of final mark. The other 10 labs make up the remaining 40% of the lab marks (so 5% each)

6. Grading System
(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)
(Mark with "X" in box below to show appropriate approved grading system – see last page of this template.)

X   Standard Grading System (GPA)

☐   Competency Based Grading System

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

Home computer with broadband internet access.

8. College Supports, Services and Policies

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

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://camosun.ca/about/policies/index.html*

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://camosun.ca/about/policies/index.html 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.