

CAMOSUN COLLEGE School of Arts & Science Department of Environmental Technology

ENVR-210-002 Aquatic Environments Fall 2018

COURSE OUTLINE

The course description is online @ http://camosun.ca/learn/calendar/current/web/envr.html

 Ω Please note: This outline will <u>not</u> 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)	Instructo	r	Emrys Prussin		
(b)	b) Office hours		Mondays 11:30 – 12:20, Thursdays 10:30 – 11:20, or by appointment		
(c)	Location	•	Paul 237		
(d)	Phone	250-3	370-3352	Alternative:	
(e)	E-mail		prussine@camosun.bc.ca		
(f)	Website	•	See D2L for course website		

2. Intended Learning Outcomes

Upon completion of this course the student will be able to:

- 1. Utilize the specialized vocabulary of aquatic sciences.
- 2. Describe and measure lake and ocean morphological features.
- 3. Compare the physical and chemical properties of fresh and marine waters.
- 4. Describe lake and ocean layering and vertical mixing processes.
- Identify the processes for surface circulation patterns in oceans and the linkages with atmospheric processes.
- 6. Identify the components of waves and tides; utilize standard tide and current tables and software.
- 7. Compare the chemical components of lakes and oceans.
- 8. Describe nutrient limitation in lakes and oceans and compare the processes involved.
- 9. Identify the components of light and its relationship with primary production.
- 10. Identify processes which affect lake and marine primary production.
- 11. Compare lake and ocean phytoplankton and zooplankton groups and the factors which affect population abundance.

3. Required Materials

All materials on D2L

4. Course Content and Schedule

Week	Lecture	Lab
	Monday (Ewing 201)	Wednesday
	Friday (Fisher 334)	(Section 001: Ewing 110, Section 002:
	,	Ewing 100)
1	M: Labour Day	Lab 1: Video Ice Kings
	F: Introduction to Aquatic Science	
2	M: Morphology of Oceans and Lakes	Lab 2: Sound & Light
	F: Physical Properties of Water	
3	M: Charts and Navigation	Lab 3: Charts & Navigation
	F: Temperature and Salinity in	
	Oceans	
4	M: The Atmosphere	Lab 4: Benthic animal diversity –
	F: Guest Lecture Ocean Networks	NEPTUNE
	Canada	
5	M: Surface Currents	Lab 5: Deep Water Masses
	F: Waves	
6	M: Thanksgiving – no Class	Lab 6: Waves
	F: Tides	
7	M: Estuaries	Lab 7: Tides
	F: Chemical Solutions	
8	M: Review	TBA
	F: Midterm	
9	M: Dissolved Ions and Gases	Lab 8: Hypoxia in Saanich Inlet
	F: Water Quality	
10	M: Nutrients	Lab 9: Water Quality
	F: Nutrient cont.	
11	M: Remembrance Day – No Class	Lab 10: Case Study Elk Lake Water
	F: Light	Quality
12	M: Phytoplankton and Primary	Lab 11: Submarine Light and Primary
	Productivity	Production
	F: Phytoplankton and Primary	
	Productivity cont.	
13	M: Zooplankton	Lab 12: People of a Feather
	F: Zooplankton cont.	
14	M: Local Marine Issues	Lab 13: Zooplankton in Saanich Inlet
	F: Review	

5. Basis of Student Assessment (Weighting)

(a)	Assignments
	Weekly Lahe

Weekly Labs 40%

(b) Exams

Midterm Exam 25% Final Exam During Exam Period (cumulative) 35%

6. Grading System

X	Standard Grading System (GPA)
	Competency Based Grading System

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

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	Α		8
80-84	A-		7
77-79	B+		6
73-76	В		5
70-72	B-		4
65-69	C+		3
60-64	С		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	
СОМ	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	<i>In progress</i> : 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.	