

<b>Course ID:</b>	<b>Course Title:</b>	<b>Winter 2018</b>	
<b>ZOO 379</b>	<b>Introduction to Marine Biology</b>	<b>Prerequisite:</b>	<b>N/A</b>
		<b>Credits:</b>	<b>3</b>

**MODULE FORMAT CLASS**

Class Information		Instructor Information		Important Dates	
<b>Days:</b>	Feb 17-21	<b>Instructor:</b>	Matthew Morris, PhD	<b>First day of classes:</b>	Sat, Feb 17
<b>Time:</b>	N/A	<b>Email:</b>	<a href="mailto:Matthew.Morris@ambrose.edu">Matthew.Morris@ambrose.edu</a>	<b>Last day to add/drop, or change to audit:</b>	4 pm, Tue, Feb. 20,
<b>Room:</b>	N/A	<b>Phone:</b>	403-410-2000, ext 6932	<b>Last day to request revised exam:</b>	n/a
<b>Lab/ Tutorial:</b>	N/A	<b>Office:</b>	A2158	<b>Last day to withdraw from course:</b>	3 pm, Fri, Feb. 23, 2017
<b>Office Hours:</b>	N/A	<b>Office Hours:</b>		<b>Last day to apply for coursework extension:</b>	Mon, Apr. 30
<b>Final Exam:</b>	N/A			<b>Last day of classes:</b>	Wed, Feb 21

### Course Description

This course will introduce students to the organisms found in the open ocean as well as in the coastal and intertidal zones, how these organisms adapt to the environment, and the factors that control their productivity, distribution, and abundance. The course will be multi-disciplinary, including aspects of animal biology, physiology, and ecology. The course will incorporate lectures with class discussions and will emphasize field work at the Bamfield Marine Sciences Centre.

### Expected Learning Outcomes

After completion of this course, students will

- Have hands-on experience with identifying and handling marine specimens
- Be familiar with the biodiversity of the Pacific Northwest
- Gain an appreciation for the different ecosystems of the region
- Understand how an organism's physiology and ecology complement each other
- Compare and contrast ocean and terrestrial environments, and describe the properties of the marine environment that are associated with specific marine adaptations
- Distinguish between different marine zones in terms of their biotic and abiotic characteristics and the factors that affect their communities
- Understand the threats (and consequences) facing many of the marine organisms such as pollution, overfishing, global warming and ocean acidification, and invasive species

## Textbooks

Kozloff EN (1993) Seashore life of the Northern Pacific coast. Seattle: University of Washington Press.

## Course Schedule

**Feb 17-21, 2018: Bamfield Marine Science Centre**

**March 16, 2018: Ecoregions paper due**

**April 7, 2018: Physiology/ecology of species paper due**

## Requirements:

Attendance, lecture, and laboratory work at Bamfield: 60%

Ecoregions paper: 20%

Animal paper: 20%

## Attendance:

Attendance at all labs and sessions at the marine station is mandatory.

Attendance at pre- or post-meetings is mandatory.

You will be graded on your field work, attendance, presentations, and papers.

## Grade Summary:

Grad	Percent	Grade Point Value	Description
A+	96-100	4.00	Outstanding
A	92-96	4.00	Excellent - superior performance, showing comprehensive understanding of subject matter.
A-	88-92	3.70	
B+	83-88	3.30	
B	78-83	3.00	Good-clearly above average performance with knowledge of subject matter generally complete.
B-	73-78	2.70	
C+	68-73	2.30	
C	64-68	2.00	Satisfactory – basic understanding of the subject matter. Grade point average below 2.00 is not sufficient for promotion.
C-	60-64	1.70	Minimum grade required if needed as a prerequisite course
D+	55-60	1.30	

D	50-55	1.00	Minimal pass – marginal performance; generally insufficient preparation for subsequent courses in the same subject.
F	<50	0	Fail – unsatisfactory performance or failure to meet course requirements.

Because of the nature of the Alpha 4.00 system, there can be no uniform University-wide conversion scale. The relationship between raw scores (e.g. percentages) and the resultant letter grade will depend on the nature of the course and the instructor's assessment of the level of each class, compared to similar classes taught previously.

Please note that final grades will be available on student registration system. Printed grade sheets are not mailed out.

### Other:

For this course, we will travel to Bamfield Marine Science Centre, which borders Pacific Rim National Park on Vancouver Island, BC. We will spend several days doing hands-on activities that will incorporate lecture material in Marine Biology. There will be readings to be completed before the travel portion of the course, as well as papers to be completed when we return. Several weeks of pre-trip lectures will introduce you to the marine species of the region, as well as their physiology and ecology. You will be responsible for completion of your own research project while on site.

### Assignments:

The two papers that you will be required to write will be on:

- 1) The biodiversity and ecology of the Pacific Northwest. You are to write a survey on the terrestrial and aquatic ecoregions of the Pacific Northwest, providing an overview of the main biotic and abiotic features that define these ecoregions.
- 2) The ecology/physiology of a marine animal, alga, or protozoan species of your choice observed at Bamfield.

### Trip details

- You are responsible for transportation to and from the airport
- Each of you must check in individually using your e-ticket. Make sure you have identification (passport, driver's license). Be at the airport early since security protocols may take time.
- Our flight **leaves at 10:30 am, WS 0491, on Saturday Feb 17. This means you need to be at the airport no later than 8:30 am.**
- We are scheduled to return at **9:30 pm, WS 3180, on Wed Feb 21.**
- If you miss your flight, we cannot guarantee your arrival at Bamfield, nor can we refund your air fare, bus fare, or other costs, as these are paid in advance.
- The village of Bamfield has only two small convenience stores at which you can buy snacks and basic toiletries if you wish (it is unlikely you will have the opportunity to visit these). Otherwise, pack your own snacks!
- You will have the opportunity to purchase Bamfield gear on the final day at the station (t-shirts, sweatshirts, postcards, mugs, etc.)
- You will need money for lunch on Feb 17 and Feb 21.

### Checklist of personal gear to bring

1. **Photo ID and e-ticket:** airport check-in/security requires either a passport or driver's license in order to board the plane.
2. **Money/debit/credit card:** Debit card readers are available at Bamfield and an ATM is available in one store.
3. **Rain gear:** rain pants and rain jacket with hoods are necessary. A hat is handy.
4. **Rubber boots:** HIGHLY recommended
5. **Warm clothing:** wool sweaters, fleece, long johns, wool socks, etc. Do not bring materials containing down, as it is too heavy when wet. Field trips will last 2-3 hours and if it is windy and 5 degrees, it can feel very cold.

6. **Gloves:** wool or fleece. Also, a pair of rubber gloves are good to use when sorting through dredges.
7. **Change of clothes:** Bring at least **two complete changes of clothes** for each day. You will get wet and will want something to get into. Extra socks are useful. Coin-operated laundry is available if needed.
8. **Daypack:** as water-proof as possible.
9. Pens, pencils, notebooks may be handy.
10. Binoculars if you have them
11. Camera
12. **Personal hygiene:** shampoo etc is not provided
13. **Flashlight** – HIGHLY recommended for evening field trips
14. **Plastic bags** – to store camera, binoculars, spare clothing, etc.

#### **Emergency contact numbers**

Should you need to contact someone at Bamfield

**Phone:** 250-728-3301

**Fax:** 250-728-3452

**Email:** BMSC has many computers with high-speed internet for email.

**Payphone in dining hall:** 250-728-9370

#### **After hours emergency only:**

250-728-3469

The Bamfield Marine Science Centre is co-owned by five other western Canadian universities. It is *the* premier marine research and teaching field station in Canada, and is among the very best in the world.

## Ambrose University Academic Policies:

### Communication

All students have received an Ambrose e-mail account upon registration. It is the student's responsibility to check this account regularly as the Ambrose email system will be the professor's instrument for notifying students of important matters (cancelled class sessions, extensions, requested appointments, etc.) between class sessions. If students do not wish to use their Ambrose accounts, they will need to forward all messages from the Ambrose account to another personal account.

### Registration

During the **Registration Revision Period** students may enter a course without permission, change the designation of any class from credit to audit and /or voluntary withdraw from a course without financial or academic penalty or record. Courses should be added or dropped on the student portal by the deadline date; please consult the List of Important Dates. After that date, the original status remains and the student is responsible for related fees.

Students intending to withdraw from a course after the Registration Revision Period must apply to the Office of the Registrar by submitting a "Request to Withdraw from a Course" form or by sending an email to the Registrar's Office by the **Withdrawal Deadline**; please consult the List of Important Dates on the my.ambrose.edu website. Students will not receive a tuition refund for courses from which they withdraw after the Registration Revision period. A grade of "W" will appear on their transcript.

Students wishing to withdraw from a course, but who fail to do so by the applicable date, will receive the grade earned in accordance with the course syllabus. A student obliged to withdraw from a course after the Withdrawal Deadline because of health or other reasons may apply to the Registrar for special consideration.

### Exam Scheduling

Students, who find a conflict in their exam schedule must submit a Revised Examination Request form to the Registrar's Office by the deadline date; please consult the List of Important Dates. Requests will be considered for the following reasons only: 1) the scheduled final examination slot conflicts with another exam; 2) the student has three final exams within three consecutive exam time blocks; 3) the scheduled final exam slot conflicts with an exam at another institution; 4) extenuating circumstances. Travel is not considered a valid excuse for re-scheduling or missing a final exam.

### Electronic Etiquette

Students are expected to treat their instructor, guest speakers, and fellow students with respect. It is disruptive to the learning goals of a course or seminar and disrespectful to fellow students and the instructor to use electronics for purposes unrelated to the course during a class session. Turn off all cell phones and other electronic devices during class. Laptops should be used for class-related purposes only. Do not use iPods, MP3 players, or headphones. Do not text, read, or send personal emails, go on Facebook or other social networks, search the internet, or play computer games during class. Some professors will not allow the use of any electronic devices in class. The professor has the right to disallow the student to use a

laptop in future lectures and/or to ask a student to withdraw from the session if s/he does not comply with this policy. Repeat offenders will be directed to the Dean. If you are expecting communication due to an emergency, please speak with the professor before the class begins.

### Academic Policies

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Academic Calendar. Personal information (information about an individual that may be used to identify that individual) may be required as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at [privacy@ambrose.edu](mailto:privacy@ambrose.edu).

### Extensions

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of the scheduled final examination period unless they have received permission for a course Extension from the Registrar's Office. Requests for course extensions or alternative examination time must be submitted to the Registrar's Office by the deadline date; please consult the List of Important Dates. Course extensions are only granted for serious issues that arise "due to circumstances beyond the student's control."

### Appeal of Grade

An appeal for change of grade on any course work must be made to the course instructor within one week of receiving notification of the grade. An appeal for change of final grade must be submitted to the Registrar's Office in writing and providing the basis for appeal within 30 days of receiving notification of the final grade, providing the basis for appeal. A review fee of \$50.00 must accompany the appeal. If the appeal is sustained, the fee will be refunded.

### Academic Integrity

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Academic dishonesty is taken seriously at Ambrose University as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to acknowledge to another person's ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university. Students are expected to be familiar with the policies in the current Academic Calendar that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.

**Note:** Students are strongly advised to retain this syllabus for their records.