

Communicating Ocean Sciences to Informal Audiences SIO180

Winter 2019 Course Information

Instructors:

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Course Description:

Students develop fundamental science communication and instructional skills through the understanding and application of learning theory, interpretive techniques, and pedagogical practices, which occur in the context of communicating ocean science concepts to a diverse audience at Birch Aquarium at Scripps.

Meeting Time:

Wednesday, 1:00 p.m. - 3:50 p.m.

Birch Aquarium, West Classroom

When you arrive at the Aquarium, please enter through the main gate and let the ticket taker know you are here for class. When you arrive for a lab, please check-in at the Visitor Services office.

In lieu of a scheduled lab each week, students will be required to complete several activities at Birch Aquarium throughout the quarter. Students, and their groups, will choose from a list of times provided by the instructors for these activities.

The SIO and South Campus shuttles stop at the Aquarium.

Office Hours:

Wednesday, 4:00 p.m. - 5:00 p.m. or by appointment

Our desks are in the Education Department office at Birch Aquarium

TritonEd

All course materials will be available on the course TritonEd site. Written assignments should be turned in online prior to the start of class. If you have questions about using the site or require paper copies of assignments, please let an instructor know as soon as possible. Feedback on assignments will be given online, via TritonEd, email or Google platforms, or on the original written assignment.

Requirements:

1. Attend class and participate in discussions and online assignments. All students should uphold the Student Conduct Code and UCSD Principles of Community while

participating in all aspects of class.

2. Complete assigned readings and be prepared to do **Quick Writes** at the start of class. If you are late to class and miss the Quick Write you may not be able to make it up. Quick Writes missed due to absence cannot be made up, but valid excuses will be taken into consideration.
3. Observe ocean science activities along with visitors at Birch Aquarium at Scripps and complete an **Observation Instrument**. Please refer to the information page *Lab Schedule* regarding dates and times.
4. Participate in presenting ocean science activities to visitors at Birch Aquarium at Scripps (BAS), sometimes with a partner/group. These presentations will occur outside of class time, in lieu of a scheduled lab session for the course. **Participation Day** will involve your participation in inquiry-based activities led by BAS staff. Each activity has accompanying kits and materials that you will use when presenting your activity. The **Activity Days (2)** will involve implementing an activity you have designed, with a partner or group, based on criteria and models presented in the course. Please refer to the information page *Lab Schedule* regarding dates and times.
5. Develop an activity of your own design with your partner/group. The activity design process has three parts:
 - a. Prepare an **Activity Idea Proposal** with your partner/group, which briefly describes your idea for an activity. This is a partner/group assignment and each group will turn in one activity proposal that they have developed together. Please feel free to discuss your ideas with the instructors and your classmates before developing your proposal.
 - b. Prepare a **Written Activity Plan** with your partner/group describing the goal and key concepts of the activity along with a description of the activity you plan to do. You will be given an activity template to use as you design your lesson. Be sure to incorporate how you will use the concepts discussed in class. This is a partner assignment and each set of partners will turn in one activity plan that they have developed together. Again, please feel free to discuss your ideas with the instructors and your classmates before developing your plan.
 - c. A **Final Written Activity Plan** prepared by you and your partner/group will reflect any changes you have made to the activity based on your experiences implementing the activity with a live audience on the floor of the Aquarium.

6. Prepare an *Activity Debrief* after you teach the activity for the public, sharing what went well and how you might change your activity to be even more effective were you to teach it again. THIS IS AN INDIVIDUAL ASSIGNMENT. You can discuss your ideas with your partner/group before writing your debrief, but each person is responsible for writing his or her own activity debrief in his or her own words.
7. Conduct *Peer Evaluations* of activities for other groups in the class after watching them conduct their activities on the floor of the Aquarium.
8. Conduct a *Final Presentation* during the final session (3/22) of the course. You will have ~10 minutes for this presentation, which should demonstrate how you would modify your previously designed activity for a college course. The presentation must be interactive. You will do this as a partner pair/group.

Grading:

Attendance

- Attendance will be taken into consideration when assigning final grades.
- Missing three or more classes may result in an automatic F.
- Missing 1 teaching obligation will drop the final grade by one letter.

Assignments

Points

In-class assignments

Participation in class discussions (10 x 20 points each)	200
Peer Evaluations	50
Final Presentation*	150

Written Assignments

Quick Writes (10 x 10 points each)	100
Activity Idea Proposal	100
Activity Plan*	150
Activity Debrief*	200
Final Activity Plan	100

Floor Activities

Observing (Observation Instrument)	50
Participation Day	100
Activity Day (2 x150)*	300
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	1500

All assignments denoted with an asterisk (*) must be completed in order to pass the course. If you are taking the course P/NP, you must complete all items with an asterisk (*) and earn at least 1050 points to receive a Pass grade.

Late assignments may be penalized 10% for each day they are late. Documented, valid excuses will be taken into consideration. If you will be absent due to other academic commitments (research cruises, conferences, etc.), you must contact an instructor prior to your absence to discuss how to make up assignments. Any partner issues that affect your ability to complete work in a timely manner must be brought to our attention as soon as they arise.

Grade Scale

A = 90-100% **B** = 80-89% **C** = 70-79% **D** = 60-69% **F** = 59%-below

UC San Diego Academic Policies

Academic Integrity

Academic Integrity is expected of everyone at UC San Diego. This means that you must be honest, fair, responsible, respectful, and trustworthy in all of your actions. Lying, cheating, or any other forms of dishonesty will not be tolerated because they undermine learning and the University's ability to certify students' knowledge and abilities. Thus, any attempt to get, or help another get, a grade by cheating, lying or dishonesty will be reported to the Academic Integrity Office and will result in sanctions. Sanctions can include an F in the class and suspension or dismissal from the University. So, think carefully before you act. Before you act, ask yourself the following questions: a) is my action honest, fair, respectful, responsible, and trustworthy, and b) is my action authorized by the instructor? If you are unsure, don't ask a friend, ask your instructor, instructional assistant, or the Academic Integrity Office. You can learn more about academic integrity at academicintegrity.ucsd.edu.

Accessibility

Students requesting accommodations for this course due to a disability must provide a current Authorization for Accommodation (AFA) letter issued by the Office for Students with Disabilities (OSD) which is located in University Center 202 behind Center Hall. Students are required to present their AFA letters to Faculty (please make arrangements to contact me privately) and to the OSD Liaison in the department in advance so that accommodations may be arranged.

Contact the OSD for further information: <https://disabilities.ucsd.edu/>.
osd@ucsd.edu | 858. 534.4382

Discrimination and harassment

The University of California, in accordance with applicable federal and state laws and university policies, does not discriminate on the basis of race, color, national origin, religion, sex, gender, gender identity, gender expression, pregnancy (including pregnancy, childbirth, and medical conditions related to pregnancy or childbirth), physical or mental disability, medical condition, genetic information, ancestry, marital status, age, sexual orientation, citizenship, or service in the uniformed services (including membership, application for membership, performance of service, application for service, or obligation for service in the uniformed services). The university also prohibits harassment based on these protected categories, including sexual harassment, as well as sexual assault, domestic violence, dating violence, and stalking. The nondiscrimination policy covers admission, access, and treatment in university programs and activities.

If students have questions about student-related nondiscrimination policies or concerns about possible discrimination or harassment, they should contact the Office for the Prevention of Harassment & Discrimination (OPHD) at (858) 534-8298, ophd@ucsd.edu, or reportbias.ucsd.edu.

Campus policies provide for a prompt and effective response to student complaints. This response may include alternative resolution procedures or formal investigation. Students will be informed about complaint resolution options.

A student who chooses not to report may still contact CARE at the Sexual Assault Resource Center for more information, emotional support, individual and group counseling, and/or assistance with obtaining a medical exam. For off-campus support services, a student may contact the Center for Community Solutions. Other confidential resources on campus include Counseling and Psychological Services, Office of the Ombuds, and Student Health Services.

CARE at the Sexual Assault Resource Center
858.534.5793 | sarc@ucsd.edu | <https://care.ucsd.edu>

Counseling and Psychological Services (CAPS)
858.534.3755 | <https://caps.ucsd.edu>