University of New Hampshire
Center for Acoustics Research and Education

UNH Introduction to Ocean Acoustics Microcredential Completion Information

This microcredential provides a foundational understanding of ocean acoustics principles, their application in studying oceanographic processes and ecosystem dynamics, and their use in research, technology, ocean mapping, environmental monitoring, defense, and energy.

To earn this badge, the learner must complete the following:

1) Attend **one** of two week-long acoustics short courses with the UNH's Center for Acoustics Research and Education:
    - The Marine Acoustics, Sonar Systems and Signal Processing Short Course: This course is offered every June on the UNH campus and provides a fundamental understanding of marine acoustics, sonar systems, and signal processing as well as a comprehensive introduction to a broad array of more advanced basic and applied research topics in these fields. Click **here** for more information about this course.

    - The BioAcoustic Summer School (SeaBASS): This course is offered every other year, alternating between UNH and Syracuse University. This course, which admits students via a competitive application process, provides the opportunity for graduate students interested in pursuing careers in marine bioacoustics to develop a strong foundation of both marine animal biology and acoustics, foster technical communication across disciplines, and develop professional relationships within the field. Click **here** for more information about this course.

2) View **three** online seminars or tutorials, choosing from the following:
    - Archived CARE Seminar Series (available **here**), which highlight cutting-edge research related to the science of sound. Learners can choose from any archived seminars, which date back to 2018.
    - Archived Discovery of Sound in the Sea (DOSITS) tutorials (available **here**), which give an introduction to the core topics of "Science of Sound," "Effects of Sound," and "Technology."

3) Complete the attached "Ocean Acoustics Microcredential Seminar/Tutorial Reflection Form" for each of the chosen online seminars or tutorials, and send your responses as a **single pdf** to care.eos@unh.edu.

    If you have any questions about the form or process, please email care.eos@unh.edu.

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Introduction to Ocean Acoustics Microcredential Seminar/Tutorial Reflection Form

Name: Date:

Name/title of seminar/tutorial viewed:

Date seminar/tutorial viewed:

Why did you select this particular seminar/tutorial?

Provide a 3-5 sentence summary of the seminar/tutorial

What content in this seminar/tutorial would you like to explore further?

What content in this seminar/tutorial do you think could have been better explained?

How does the topic of the seminar/tutorial relate to what you have learned in the Ocean Acoustics Microcredential thus far?

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