

# CITIZEN AND COMMUNITY SCIENCE (GRADUATE CERTIFICATE)

<https://marine.unh.edu/program/graduate-certificate/citizen-community-science>

## Description

The UNH Graduate Certificate in Citizen and Community Science offers students the opportunity to develop competencies in both the theory and practice behind robust and authentic citizen and community science projects in a natural resource management setting. This certificate is appropriate for a wide range of students and professionals with interests in developing competencies related to project design and implementation, best practices for effective projects and teams, volunteer engagement, methods for data sharing, and issues of social justice in citizen science. The certificate can be pursued as a stand-alone credential or in concert with another degree at UNH. Part-time and hybrid pathways through the certificate are available.

## Requirements

The Citizen and Community Science Certificate requires a minimum of **12 credits**. Coursework includes one required core class, a seminar requirement, at least six credits of electives, and one required practicum.

Code	Title	Credits
<b>Required Courses</b>		
GRAD 834	Fundamentals of Citizen and Community Science	3
MARI 801	Coastal Resource Management and Policy Seminar (to be taken twice)	1
MARI 901	Resource Management and Policy Practicum	1
<b>Electives <sup>1</sup></b>		
Select one natural science, social science, or engineering course from the following:		3-4
CEE 822	Introduction to Marine Pollution and Control	
CEE 833	Public Infrastructure Asset Management	
CEE 858	Stormwater Management Designs	
ECON 908	Environmental Economics: Theory and Policy	
ECON 909	Environmental Valuation	
ESCI 871	Positioning for Ocean Mapping	
ME 817	Marine Robotics and Applications	
NR 843	Addressing Arctic Challenges I	
OE 854	Ocean Waves and Tides	
OE 857	Coastal Engineering and Processes	
OE 858	Design of Ocean Structures	
PHP 902	Environmental Health	
PPOL 904	Economics for Public Policy	
PPOL 908	Quantitative Methods for Policy Research	
SOC 825	Social Demography	
SOC 830	Communities and the Environment	
SOC 901	Sociological Methods I: Intermediate Social Statistics	
Select one resource management course from the following:		3-4
BIOL 950	Scientific Communication	
GRAD 844	Fundamentals of Stakeholder and Community Engagement in Natural Resource Management	
MARI 805	Introduction to Coastal and Marine Policy: Understanding US Ocean, Coastal, and Great Lakes Policy	
MEFB 847	Aquatic Plants in Restoration/Management	
NR 803	Watershed Water Quality Management	
NR 824	Resolving Environmental Conflicts	

NR 947	Ecosystem Science: Theory, Practice, and Management Applications for Sustainability
PA 804	Policy and Program Evaluation
PPOL 904	Economics for Public Policy

<sup>1</sup> See advisor about additional course options.