

Graduate Certificate Program:  
Teaching and Communicating Ocean Sciences Broader Impacts

<http://www.usf.edu/innovativeeducation/graduatecertificates/programs/teachingandcommunicatingoceansciencesbroaderimpacts.aspx>

The Teaching and Communicating Ocean Sciences Broader Impacts Graduate Certificate program is intended to develop, practice and advance students skill set to lead broader impact activities and compete for competitive grant writing. Course activities will include practice in outdoor natural environments, labs and classrooms. Students will develop syllab

Successful completion of four certificate courses is required to fulfill this Certificate Program

- I. OCE 6048 Ocean Scientists in the Classroom (taught Fall, even years)

Catalog Description- This course p

### III. OCE 6940C Experiential Learning in Marine Sciences (taught every Summer)

Catalog Description- This course demonstrates marine science teaching protocols via the examination of marine science concepts and inquiry-based learning strategies through team building, field research experiences, and field explorations to local marine environments.

#### Course Objectives

1. To learn the theoretical framework for experiential learning in the context of STEM and ocean sciences education
2. To learn how to teach ocean sciences content from a natural setting marine environment
3. To develop an understanding of the challenges and benefits of field-based experiential learning
4. To design a

## Details about Certificate Program

### Teaching and Communicating Ocean Sciences Broader Impacts

**Course location/delivery** The Certificate is offered at the St Petersburg campus and partially online.

**Admission requirements** Applicants for the Certificate should have:

A bachelor's degree or equivalent from a regionally accredited university/college.

A minimum GPA of 3.0 on all work completed while registered as an upper division baccalaureate student

**Prerequisites** None are required.

**Requirements** Total of 12 credit hours for the certificate.

OCE 6940C ±Experimental Learning in Marine Science (3)

OCE 6048 ±Scientist in the Classroom (3)

OCE 6950 ±Teaching Broader Impacts of Ocean Sciences (3)

OCE 6949C ±Developing and Teaching a STEM Course (3)

**Electives** n/a

**Time limit** : Five years

**Credit toward graduate degree** Up to 12 hours of certificate course credits may be applied to a graduate degree with departmental approval.

**Standardized tests** International students must submit a TOEFL score when English is not the native language. A minimum score of 550 on the paper-based test or 79 on the web-based test is required.

#### Contacts

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