The Communicating Ocean Sciences Network: Universities, Oceanographic Institutions, Science Centers, Aquariums, and Schools Working Together to Improve Education and Public Outreach Efforts

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Communicating Ocean Sciences College Courses

- introduces new and seasoned scientists to outreach and broader impact strategies
- team-taught by university faculty and a formal or informal educator, introduced to the course via face-to-face or interactive online professional development
- university students gain experience communicating science in K–12 classrooms (COS K–12) or informal science education institutions (COSIA)

Goals:

- introduce university students—the future scientists—to the importance of education, outreach, and the broader impact of ocean sciences research
- improve scientists' ability to communicate scientific concepts and research to their students
- provide both university students and scientists with direct experience using exemplary, research-based instructional materials that model constructivist pedagogy—the idea that people learn by actively interacting with their social and physical environment
- promote thoughtful, mutually beneficial collaborations between scientists and educators as they co-teach the courses
- provide K–12 students from underrepresented populations and visitors to informal science education institutions with significant ocean sciences instruction and university role models

Reflecting on Practice

- challenges informal educators to be critical and thoughtful about how they engage with the public, through an intensive professional development program
- leaders from informal science education institutions participate in professional development focused on understanding and applying research and theory on learning and teaching science
- leaders implement ongoing professional development at their home institution, building a professional learning community centered on reflective practice

Goals:

- connect informal educators with literature in the learning and teaching field
- engage informal educators in habits of reflection through observing their own teaching
- nurture a tradition of continued professional learning among participants, and build a professional learning community

About the COS Network:
The Communicating Ocean Sciences Network consists of:

- over 25 colleges and universities
- 17 informal science education institutions

Join the COS Network:
COS-RoP.net is an online resource and community for scientists and educators committed to improving their knowledge about and ability to communicate science with the public. Join the network at COS-RoP.net.