

UNDERGRADUATE PROGRAM IN MARINE SCIENCE

Breaking Ground and Building Bridges

History:

- initiated in January 2010
- partnership between VIMS and Arts & Science
- interdisciplinary, cross-campus collaboration

Leadership:



Liz Canuel
Co-Director, VIMS



Heather Macdonald
Co-Director, Geology



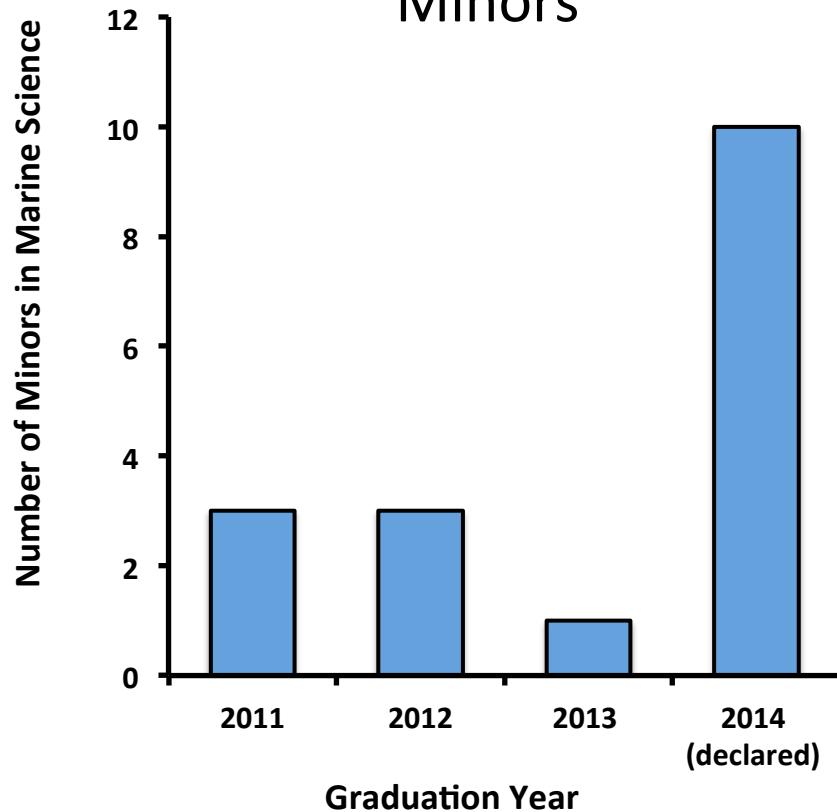
Jon Allen, Interim
Co-Director, Biology



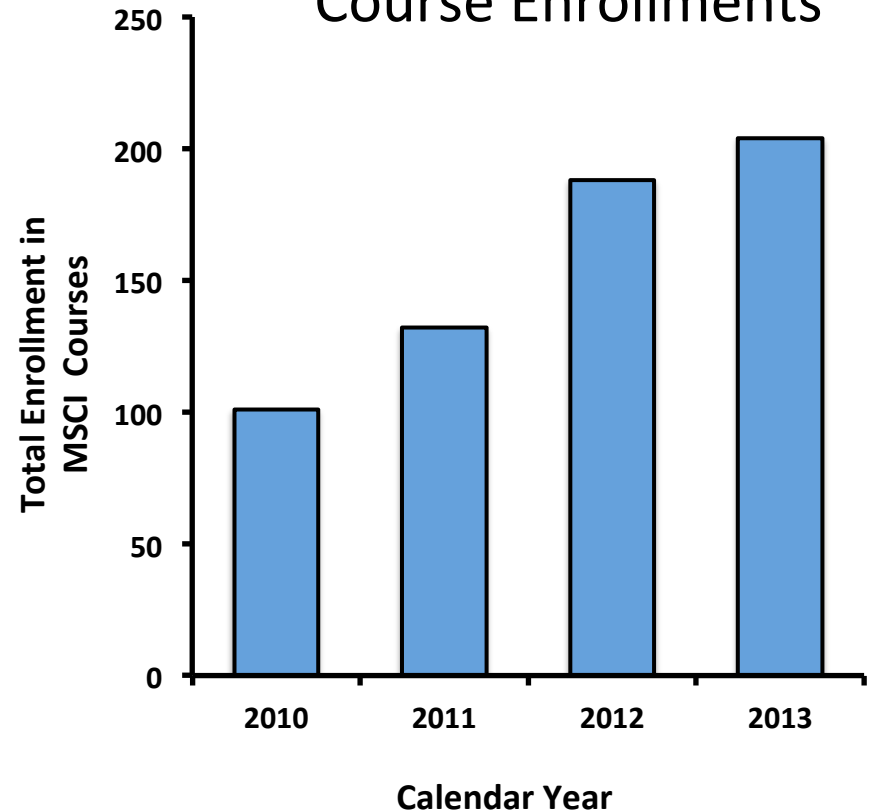
Marine Science Society

A Trajectory of Growth

Declared Undergraduate Minors



Marine Science Course Enrollments

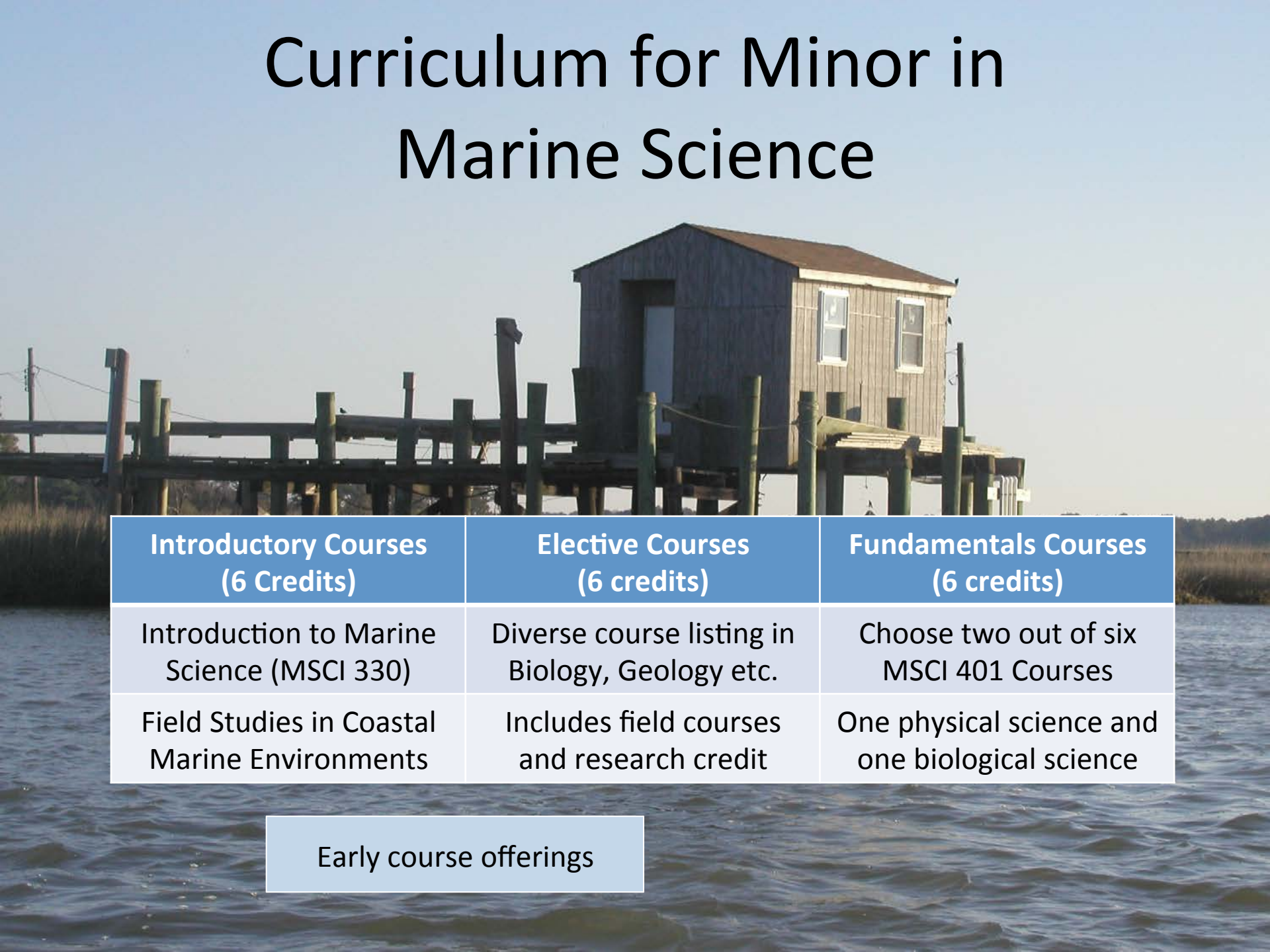


Opportunities in the Undergraduate Program in Marine Science

- Coursework
- Field experiences
- Undergraduate research
- Marine Science Teaching Fellows program



Curriculum for Minor in Marine Science

A photograph of a wooden observation tower or small building situated on a pier or dock over a body of water. The structure has a gabled roof and several windows. The pier is made of wooden pilings and extends into the water. The background shows a clear sky and distant land.

Introductory Courses (6 Credits)	Elective Courses (6 credits)	Fundamentals Courses (6 credits)
Introduction to Marine Science (MSCI 330)	Diverse course listing in Biology, Geology etc.	Choose two out of six MSCI 401 Courses
Field Studies in Coastal Marine Environments	Includes field courses and research credit	One physical science and one biological science

Early course offerings

FIELD EXPERIENCES

Eastern Shore Lab



Orr's Island, ME



San Juan Islands, WA



York River, Gloucester Point

UNDERGRADUATE RESEARCH at WM and VIMS



- Domi Paxton WM '13
- Geology Major/Marine Science Minor
- Submersible Research in Coastal Hydrodynamics at VIMS
- Cruises to Antarctica with Dr. Debbie Steinberg (VIMS)
- Summer Internship at NOAA mapping seafloor
- Research Assistant at Oregon State University (3rd cruise to Antarctica!)



- Frances Armstrong WM '11
- Published Biology honors thesis in leading journal
- Best Student Presentation at National Meeting (outcompeting Ph.D. students)
- > \$5000 in grants as undergrad
- Independent Research in Panama (Smithsonian)
- NSF Award funding Ph.D. at UC Davis (> \$100,000)

Marine Science Teaching Fellows Program

- **Marine Science Teaching Fellows Program**

- Chesapeake Bay Fisheries
- Tidal Marsh Ecology: Life on the Edge
- Arctic Oceanography
- Biodiversity in the Indo-West Pacific Ocean
- Climate Change in the Frozen South
- Fish Predator-Prey Dynamics
- Aquaculture: Ecological & Economic Perspectives
- Marine Invasive Species
- Coastal Ecology & Conservation



The Undergraduate Program in Marine Science provides unique opportunities for graduate teaching and mentorship, building on existing strengths across the campuses

The Undergraduate Program in Marine Science: *An Integrated and Interdisciplinary Community*

Provides local, national and global opportunities

Diverse experiences in courses, field work, research and teaching

Benefits undergraduates, graduate students and faculty

Building the reputation of W&M for undergraduate marine science education that improves recruitment of future students and placement of our graduates

