

FALL 2019 AT THE OREGON COAST

Academic Offerings at OSU's Hatfield Marine Science Center

Why study at Hatfield Marine Science Center?

- Live at the coast while taking a full course load.
- Experience diverse coastal habitats in a small, hands-on experimental courses.
- Fulfill your program requirements in a new way- “study abroad” style experience without leaving the state!
- Combine courses to gain knowledge and experience.
- Courses provide opportunities to explore coastal ecology, marine fish and mammals, natural resource conservation and management, and education.



Life at the coast

Housing at Hatfield- Apply for housing early! Shared apartments with cooking facilities are available at Hatfield. Approximate per month rental (per person) is \$375 for Fall 2019. Although not currently available, housing scholarships may become available for registered students to help partially defer housing costs. To learn more about the housing: <https://hmsc.oregonstate.edu/facilities/housing-0>

Recreational activities are available at HMSC (e.g., kayaking, fishing, volleyball, crabbing, clamming, and basketball), at the Newport Recreational Center (gym, pool, exercise classes; passes available), and in the surrounding areas (surfing, hiking, paddle boarding, mountain biking, whale watching, fishing, disc golf, etc). Local restaurants host regular events, such as local live music. Weekly Newport Farmers Market every Saturday.

Location and transportation: HMSC is conveniently located in Newport along Oregon's Central Coast. Public transportation is available from Corvallis and other Willamette Valley locations by the Coast-to-Valley Express Shuttle. Approximately 55 miles from Corvallis, the drive to Newport takes about one-hour. Along the coast,



public transportation can help you move between the Center and shopping areas. Students residing at the Center often organize carpools to facilitate travel. Parking is free at HMSC.

Medical care available at the New Samaritan Pacific Communities Hospital, including Urgent and walk-in care.

OSU Library resources available at the HMSC Marilyn Potts Guin Library, which features a premier collection of marine-related resources and access to OSU's main library. Students in-residence can seek 24-hour access.

Make new connections– Students from all over the country come to HMSC for classes and internships. Orientation activities will help you to learn about HMSC resources. The Hatfield Student Organization is a resource for all students studying at HMSC. hmsc.oregonstate.edu/hatfield-student-organization

Opportunities to Gain Experience

- Oregon Coast Aquarium
- Oregon Sea Grant Youth Education Program
- PNW Marine Technology Summit
- HMSC Visitor Center
- Oregon Department of Fish and Wildlife- marine Resources Program
- National Association of Marine Laboratories- Fall 2019 conference

Course Descriptions - see summary table for CRN and credit info, on last page. Talk with your academic advisor about how these courses can contribute to your degree. These courses are for advanced undergraduate and graduate students who have interests in coastal ecology, natural resource conservation and management, fish and mammals, and education. To learn more about academic offerings in other terms (winter, spring, summer), visit hmsc.oregonstate.edu/academics/courses-hmsc

- **Coastal Ecology and Resource Management, FW 426/526 (section 001):** Study of the ecology and management of coastal marine and freshwater ecosystems as well as natural resources, emphasizing experimental (participatory) learning in a field station setting. Lec/lab. Students in residence at HMSC conduct a research project with mentorship by faculty or agency scientist. Research culminates in a final research poster presentation at an annual coastal ecology and resource management symposium at the end of term. *Important! Required attendance 9/14-17 from 9:00AM-4:50PM each day. Meets 9/25 to 12/6 on Wednesdays from 10:00AM-12:50PM.*
- **Communicating Ocean Sciences to Informal Audiences. SED 435/535.** For students interested in improving their ability to communicate their scientific knowledge by helping general public and student audiences learn about ocean sciences in a wide variety of learning settings. Combines instruction in inquiry-based teaching methods

and learning theory with work in student's local informal learning settings like museums, zoos, aquariums and libraries. *Fall schedule available soon.*

- **Estuarine Ecology. OC 434/534 (section 001).** Integrated and synthetic training in the ecological processes of estuarine environments, with emphases on ecological interactions among organisms and the biogeochemical cycling of carbon and nitrogen. Topics include geomorphology, estuarine physics and chemistry, primary and secondary producers, ecosystem metabolism, element cycling, food webs, fisheries, restoration, management, and impacts of climate. Field trip required, transportation fee charged. Course is same as FW 434/534. *Meets MWF from 8:00-8:50 AM @ HMSC. Students can take this class at either HMSC or Corvallis campus, since lectures will be broadcast between the two locations. For example, when lecture is on-site at HMSC it will be broadcast to OSU-Corvallis.*
- **The Natural History of Whales and Whaling. FW 419/519 (section 001).** Explore the natural history of whales as a unique example of adaptation in an evolutionary lineage and learn about historical and current issues of international resource management, through the example of whaling practices. Some background in vertebrate ecology and evolution or genetics required. *Meets Mondays from 10:00AM-1:20PM @ HMSC.*
- **Marine Conservation Biology. FW 464/564 (section 002).** Lectures, group library research, and class debates on current issues regarding the conservation of biodiversity in the sea. Topics include overfishing, invasive species, eutrophication, marine pollution, and global warming, as well as means of addressing these threats. *Meets MWF from 2-2:50PM @ HMSC (9/25 to 12/6).*
- **Research Experience or Internship Credits.** A wide range of exciting opportunities are available for students at Hatfield. HMSC is home to the Oregon Sea Grant Visitor's Center, Oregon Department of Fish and Wildlife, US Fish and Wildlife Service, NOAA and other agencies. This is a premier destination for immersing yourself in hands-on work with research and education experts. HMSC Academic programs and OSU Departmental Staff are skilled in linking students with research experience and internship mentors. *Speak with your advisor to learn more. Itchung Cheung, HMSC Academic Programs, or Cynthia Leonard, MSI Academic Advisor, can also help coordinate projects with interested students and mentors. Contact: HMSCacademic@oregonstate.edu @ Cynthia.leonard@oregonstate.edu*
- **Hatfield Marine Science Center Seminar. FW 407/507.** Learn from national and international experts about current research in marine studies, through weekly seminars hosted at HMSC. *Meets Thursdays from 3:30-4:20PM @ HMSC's Guin Library Seminar Room.*
- **Practicum in Science Communication. ED 309.** For students who would like to earn practical experience in science communication, this course offers a mentored

experience working with public audiences in an interpretive setting such as the HMSC Visitors Center or the Oregon Coast Aquarium. *Fall schedule available soon.*

- **Methods in Physiology and Behavior of Marine Megafauna. FW 469/569.** An in-depth study of marine megafauna (mammals, birds, turtles) with an emphasis on methods and analyses of behavior and physiology for conservation. Lab and field exercises include investigations into the behavior–physiology nexus of diving, migration, thermoregulation, energy expenditure, and mating systems. Research techniques include tracking and remote biotelemetry monitoring technologies, respirometry, genetics, and direct field study observation. Theoretical approaches, field techniques and statistical analyses will help prepare students for a career in fisheries or wildlife science. Lec/lab. *Meets WThFSa from 9-4:50PM @ HMSC (9/18 to 9/21). Hybrid section includes face-to-face meetings, mandatory 4 day attendance (9/18 to 9/21), and weekly lectures broadcasted from Newport via Webex.*

Interested? Here are next steps to enroll in the Fall at the Oregon Coast Program:

- **Talk with your academic advisor and fill out the “Fall at the Oregon Coast” Program form**, available at: Hatfield Marine Science Center’s Academic Program/Courses page at tinyurl.com/hmscFALL2019
- **Register for your courses**
 - Note: Registration for OSU students is identical to registration for all OSU classes. Students from other institutions are also encouraged to apply. Many schools have tuition and credit transfer agreements with OSU. Tuition fees are through OSU and dependent on the number of credit hours, residency, and whether the course is Ecampus. Talk with your academic advisor if you have additional questions.
 - To get started with registration: registrar.oregonstate.edu/getting-started
- **Complete your housing application if you plan to reside at Hatfield Marine Science Center.** hmsc.oregonstate.edu/facilities/housing
- **Check e-mail for announcements.**

Fall 2019 at Hatfield Marine Science Center

For more info: HMSCacademic@oregonstate.edu or Cynthia.leonard@oregonstate.edu
 Overview about all academic terms at HMSC: hmsc.oregonstate.edu/academics/courses-hmsc

Course Name	Registration Info	Credits	Instructor	Pre-Reqs	Class Time	Fees
Coastal Ecology & Resource Management	<ul style="list-style-type: none"> ○ FW 426, CRN 12592 ○ FW 526, CRN 12593 	5	Scarlett Arbuckle	Junior standing or above Departmental approval. Recommended: FW 320.	MTSaSu 9am-4:50pm (9/14 to 9/17) W 10am-12:50pm (9/25 to 12/6)	\$80
Communicating Ocean Science to Informal Audiences	<ul style="list-style-type: none"> ○ SED 435/535 <i>(more info to be announced)</i> 	3	Shawn Rowe			
Estuarine Ecology	<ul style="list-style-type: none"> ○ OC 434, CRN 15189 ○ OC 534, CRN 15190 	4	Byron Crump & Fiona Tomas-Nash		MWF 8am-8:50am	\$45
The Natural History of Whales and Whaling	<ul style="list-style-type: none"> ○ FW 419, CRN 17782 ○ FW 519, CRN 17783 	3	C Scott Baker	Background in vertebrate ecology and evolution or genetics	M 10am-1:20pm	
Marine Conservation Biology	<ul style="list-style-type: none"> ○ FW 464, CRN 17098 ○ FW 564, CRN 17099 	3	Will White	BI 370 or 370H with minimum of D-	MWF 2pm-2:50pm	
Research Experience or Internship Credits	<ul style="list-style-type: none"> ○ FW/IB/OC 401/410, <i>Discuss with your advisor before registering</i> 	1+	HMSC Academic and other instructional staff			
Practicum in Science Communication	<ul style="list-style-type: none"> ○ ED 309 <i>(more info to be announced)</i> 	3-6	Shawn Rowe	Departmental approval		Up to \$72
HMSC Seminar	<ul style="list-style-type: none"> ○ FW 407, CRN 11243 ○ FW 507, CRN 11244 	1	Staff	Junior standing or above	Th 3:30pm-4:20pm	
Methods in Physiology and Behavior of Marine Megafauna	<ul style="list-style-type: none"> ○ FW 469, CRN 17282 ○ FW 569, CRN 17287 	3	G. Renee Albertson	One year of introductory biology +9 credits of upper division FW or BI courses	WThFSa 9am-4:50pm (9/18 to 9/21) Weekly lectures (9/25 to 12/6), day TBA	

Online courses could be substituted to meet particular BACC core, WIC, and other degree requirements. Classes listed may be taught in Corvallis as well, or a hybrid of the two. Please check online and with your advisor for the most in-depth information.