FALL 2019 AT THE OREGON COAST

Academic Offerings at OSU’s Hatfield Marine Science Center
(updated September 2019)

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- To learn more about the housing, which is available throughout the term: https://hmsc.oregonstate.edu/facilities/housing-

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

For more info: HMSCacademic@oregonstate.edu or Cynthia.leonard@oregonstate.edu
All academic terms at HMSC: hmsc.oregonstate.edu/academics/courses-hmsc
free at HMSC. The Marine Studies Office will assist in organizing carpools. See page 4 for more information.

**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](http://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 -

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](http://hmsc.oregonstate.edu/academics/courses-hmsc)
- *For complete and up-to-date course information including class locations*, see OSU’s Course Catalog and Schedule. [https://classes.oregonstate.edu](https://classes.oregonstate.edu)
- *Course-specific information*: Your instructor will likely communicate with you via e-mail or Canvas about field trips and other logistical arrangements. If you have questions, don’t hesitate to contact your instructor or academic programs at HMSC (via [HMSCacademic@oregonstate.edu](mailto:HMSCacademic@oregonstate.edu))

**Coastal Ecology and Resource Management, FW 426/526 (sections 001 and 400)**: 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. Section 001 meets 9/25 to 12/6 on Wednesdays from 10:00AM-12:50PM. Section 400 completed online.**
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. Thursdays 10 am to 12:50 pm. Offered at Hatfield Marine Science Center, with broadcast opportunity to attend in Corvallis (note: because of the course format, it is highly recommended that students attend in-person at HMSC; carpools are available).

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.

Marine Conservation Biology. FW 464/564 (sections 001 and 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 T/Th from 2:00-3:20 PM @ HMSC with broadcast to Corvallis (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. Online and broadcast sections are available. See OSU Course Schedule.

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 WThFs@ 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.

Resources

- **Complete your housing application if you plan to reside at Hatfield Marine Science Center.** Stay at HMSC for the entire term, or stay for a portion of the term. This is a great way to become immersed in your coastal studies! [https://hmsc.oregonstate.edu/facilities/housing-0](https://hmsc.oregonstate.edu/facilities/housing-0)

- **HMSC Information for current students**
  - Academics webpage with lots of information about courses, directions, and housing
  - Hatfield Student Organization’s page

- **Check e-mail for announcements.**

- **Getting to HMSC as a commuter:** The Marine Studies Office in Corvallis will be arranging motorpool vehicles to help you get to the coast starting the week of September 23rd, if you are interested in a carpool. [Sign-up HERE to join a carpool list.](https://hmsc.oregonstate.edu) *If you don’t know if you need a carpool, but interested in the idea, please sign-up anyways.*

- **HMSC Activities:** The following are just some of the upcoming Fall events at HMSC. The annual HMSC Picnic (9/14), weekly donut break sponsored by the Hatfield Student Organization (Wednesdays), weekly HMSC research seminar (Thursdays), and Science on Tap evennings (October, November, and December). To learn more:
  - Check out HMSC’s webpage for event announcements: [https://hmsc.oregonstate.edu](https://hmsc.oregonstate.edu)
  - Hatfield Student Organization’s page, with lots of activity information: [https://hmsc.oregonstate.edu/hatfield-student-organization](https://hmsc.oregonstate.edu/hatfield-student-organization)
  - Are you based in Corvallis and interested in other ways to experience the coast? If you haven’t heard about the Ocean11 student club, check it out. The club hosts field trips, movie nights, and many other social activities.

Thank you again for participating in Fall at the Coast! If you have questions, please contact [Cynthia.Leonard@oregonstate.edu](mailto:Cynthia.Leonard@oregonstate.edu) and [HMSCacademic@oregonstate.edu](mailto:HMSCacademic@oregonstate.edu)
# Fall 2019 at Hatfield Marine Science Center

For more info: [HMSCacademic@oregonstate.edu](mailto:HMSCacademic@oregonstate.edu) or [Cynthia.leonard@oregonstate.edu](mailto:Cynthia.leonard@oregonstate.edu)

Overview about all academic terms at HMSC: [hmsc.oregonstate.edu/academics/courses-hmsc](http://hmsc.oregonstate.edu/academics/courses-hmsc)

See OSU Course Schedule for most up-to-date course information and descriptions! [https://classes.oregonstate.edu/](https://classes.oregonstate.edu/)

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<tr>
<th>Course Name</th>
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<th>Credits</th>
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| Coastal Ecology & Resource Management (Section 001) | FW 426, FW 526 | 5       | Scarlett Arbuckle           | Junior standing or above
Departmental approval. Recommended: FW 320.                                | MT Sa Su 9am-4:50pm (9/14 to 9/17)
W 10am-12:50pm (9/25 to 12/6)--- section 001                  | $80               |
| Communicating Ocean Science to Informal Audiences | SED 435/535   | 3       | Shawn Rowe                  |                                                                          | Th 10:00 am - 12:50 pm                           |      |
| Estuarine Ecology                                | OC 434, OC 534| 4       | Byron Crump & Fiona Tomas-Nash |                                                                          | MWF 8am-8:50am                                  | $45  |
| Marine Conservation Biology                      | FW 464, FW 564| 3       | Will White                  | BI 370 or 370H with minimum of D-                                        | T/Th 2pm-3:20pm
Section 001: broadcast to Corvallis from HMSC
Section 002: HMSC                                 |      |
| Research Experience or Internship Credits        | FW/IB/OC 401/410, Discuss with your advisor before registering | 1+      | HMSC Academic and other instructional staff |                                                                          |                                                |
| HMSC Seminar                                     | FW 407, FW 507| 1       | Staff                       | Junior standing or above                                                  | Th 3:30pm-4:20pm                                |      |
| Methods in Physiology and Behavior of Marine Megafauna | FW 469, FW 569 | 3-4    | 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.