



Oceanography and Marine Sciences

Major Preparation Sheet 2017-2018

Where does my path start?

You will complete an Associate of Science-Transfer (AS-T) Track 1 at Shoreline.

Use the AS-T Track 1 Degree Planning Guide, with this sheet, to understand the requirements for graduation.

Once you complete your Shoreline degree, you can transfer to a four-year school to earn a Bachelor of Arts (B.A.) or Bachelor of Science (B.S.) in Oceanography and Marine Sciences.

Oceanography and Marine Sciences are excellent preparation for graduate studies in Geology, Environmental Science, Oceanography, Physics, Education and Law.

Oceanography and Marine Sciences – What is it?

Oceanography and Marine Science are the study of the earth's oceans, the plants and animals that live in the ocean and how they interact within their natural environment. Oceanography and Marine Science are interdisciplinary sciences integrating biology, chemistry, geology, physics mathematics, botany, zoology, meteorology and geography.

Areas of study in Oceanography and Marine Sciences: Plants and Animals in the Ocean, Ocean Substances, Nutrients and Gases in Seawater, Marine Sediments, Plate Tectonics, Sea Motion, Tides and currents.

Where can I go for help?

Program Faculty Advisors

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General Academic Advising

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For course information and entry codes, contact:

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International Student Academic Advising

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Career Planning

www.shoreline.edu/job-career-services/

What can I do with a Bachelor's Degree in Oceanography and Marine Sciences?

Oceanographers and Marine Scientists work at sea, on land, on ocean vessels and in research laboratories. Graduates develop strong critical thinking, problem solving, technical communication and scientific skills to work in careers that include environmental protection, environmental policy conservation, natural resources, consulting, research and development, education, and law.

Potential employers include: Research institutions, colleges and universities, engineering and consulting firms, federal, state and local government agencies, maritime museums, and environmental protection agencies. For more, please visit <http://www.shoreline.edu/counseling-center/career-counseling.aspx>.

What courses should I take?*

General Education Requirements (20 Credits)	Required: ENGL& 101 (A); ENGL& 102 (A), 230 (W,S) or CMST& 101 (A); MATH& 151 (A); One course in Multicultural Understanding
Humanities/Social Sciences (15 Credits)	Required: One course each in Humanities and Social Sciences; a third course in either Humanities or Social Sciences
Pre-Major Requirements (54-59 Credits)	Required: Chemistry: CHEM 171/181 (F,W,S); CHEM 172/182 (W,S,U); CHEM 173/183 (F,S,U) Mathematics: MATH& 152 (F,W,S); MATH 211 (A) or MATH& 163 (F,W,S) <i>Biology, Algebra-based Physics or Calculus-based Physics:</i> Biology: BIOL& 211 (A), 212 (W,S), 213 (S,U) Algebra-based Physics: PHYS& 114 (F), 115 (W), 116 (S) Calculus-based Physics: PHYS& 221 (F,W), 222 (W,S,U), 223 (F,S)
Major Science Sequence and/or Support Courses (Min. 10 Cr.)	Strongly recommended: Biology: BIOL& 211 (A), 212 (W,S), 213 (S,U) Algebra-based Physics: PHYS& 114 (F), 115 (W), 116 (S) Calculus-based Physics: PHYS& 221 (F,W), 222 (W,S,U), 223 (F,S) Chemistry: CHEM& 241/271 (F,W), 242/272 (W,S), 243/273 (S) Other recommended: Biology: BIOL 144 (S) Environmental Science: ENVS 202 (W) Geography: GEOG 203 (A), 204 (A) Geology: GEOL& 101 (A) Oceanography: (F,W,S)

F=Fall, W=Winter, S=Spring, U=Summer, A=All– indicates quarter(s) in which class is offered.

Where can I transfer and what is required at my chosen school?

Before choosing classes, become familiar with the four-year program where you want to apply: visit the website, email the department, and/or speak with a Shoreline advisor. Below are examples from Washington schools with different admissions and graduation requirements. Check with the school for world language requirements. (Non-native speakers of English are often exempt from this requirement.)

School	Transfer Information	School	Transfer Information
Central Washington University	http://tinyurl.com/jdpjra6	University of Washington	http://tinyurl.com/hm3uecl
Eastern Washington University	http://tinyurl.com/gqpzhnq	Washington State University	http://tinyurl.com/jk3a2v2
Pacific Lutheran University	http://tinyurl.com/zygoljk	Western Washington University	http://www.wvu.edu/vtc/
The Evergreen State College	http://tinyurl.com/zhyjy3s	Whitman College	http://tinyurl.com/z8vuwn9
University of Puget Sound	http://tinyurl.com/h7yqx8s		

**** This unofficial guide is intended to support you as you prepare for your major. Please consult with an advisor and your chosen four-year school(s), as program and admissions requirements vary and may change without notice.**