

# ESCI 101 ~ Principles of Earth Science I

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## Oceans & Coasts

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### Overview

In this lesson, you will learn about oceans, seafloors, and shorelines.



You will need to be able to:

- List and describe the main subdivisions of the continental margin (continental shelf, continental slope, continental rise, abyssal plain).
- Discuss the difference between passive and active margins.
- Discuss ocean waves, their formation, their parts (wave length, wave height, crest, trough), and their mechanism.
- Discuss tides and their causes, including spring tides and neap tides.
- Discuss ocean currents (Coriolis effect, long-shore current, rip current).
- Discuss wave depositional features and erosional features along the shoreline.



At the top of the [NOTES](#) page there is a downloadable copy of the notes presented within the page, as a Word document and as a PDF (they are the same). Spaces were left blank for you to fill in while you go through the [NOTES](#) page. Be sure to examine all of the figures, including the links which open up extra pages. Geology is a very visual science and oftentimes a picture or a movie are really worth a thousand words.



Along with going through the online notes, please be sure to read the associated chapters in your text book, [Chapter 15 ~ Restless Realm: Oceans and Coasts \(p. 404-429\)](#). The information that you are required to know is information within the [NOTES](#) page.



**Laboratory:** see "Assignments Tool" for [Lab 13-Oceans and Coasts](#) and the [laboratory](#) page for questions.