This is an online field course studying the geology of the Central Oregon Coast. Explore the evidence of tectonic earthquakes, the 1700 tsunami, coastal erosion and mitigation. 

**There will be no face-to-face or D2L instruction. All instructions for this class are contained in this syllabus. Papers are due by 5 PM, Friday, March 19, 2021, delivered by email to** [**scarlson@pdx.edu**](mailto:scarlson@pdx.edu)**.**

**Review the following web resources and cite references to them in your paper.**

[Sept 1993 issue of *Oregon Geology*](https://digital.osl.state.or.us/islandora/object/osl%3A66070/datastream/OBJ/view) **[124 pgs]**

[Excerpt from March 1998 issue of *Geology*](https://pubs.geoscienceworld.org/gsa/geology/article-abstract/26/3/199/187200/A-new-view-into-the-Cascadia-subduction-zone-and?redirectedFrom=fulltext) **[8 pgs]**

[*Local Tsunamis in the Pacific Northwest*](https://www.usgs.gov/centers/pcmsc/science/local-tsunamis-pacific-northwest?qt-science_center_objects=0#qt-science_center_objects) **[11 pgs]**

*Research Sheds New Light on Tensions Along Cascadia Fault*  **[6 pgs]**

**View the following**

[Video: Great Earthquakes of the Pacific Northwest](https://www.youtube.com/watch?v=UJ7Qc3bsxjI) **[1:04 hrs]**

[Video: Unprepared: An Oregon Field Guide Special](https://watch.opb.org/video/oregon-field-guide-unprepared-oregon-field-guide-special/) **[56 min]**

Please Review and comment on this rough draft of the virtual trip

<https://www.dropbox.com/sh/mlqfhwoqt8bhg3b/AAAKmwzF4DndN4ajovYjDJija?dl=0>

**Assignment:** Using the handouts and online resources listed above, write a paper of 1000-1500 words to answer the following questions.

* **What would be a possible sequence of events in a major earthquake along the Oregon-Washington coastline?**
* **What mitigation efforts should be taken to protect life and property in the event of major earthquakes or tsunami near the Oregon coast?**
* **How might the geology of the Central Oregon Coast relate to your chosen college major, your life in the present or the future.**

Use standard formatting: 1-½” margins, double-spaced.Use and cite at least three sources including course handouts, *Oregon Geology* Volume 55, #5, 9/93, online encyclopedias and USGS webpages.