

OSM 2024 Data Labs Workshop

Rich Dixon Dept. Of Geography & Environmental Studies Texas State University

GEO 3335 Oceanography

- Offered each Spring Semester
- Max enrollment 35 students
- Typical student is a Geography major with a concentration in Resource & Environmental Studies or Physical Geography
- Other students have a minor in Geography (typically Wildlife Biology majors)
- An elective course for all programs. No math prereq.
- F2F Lecture format no laboratory component (3 credits)

Course Description and Text

- Introductory course about the physical, chemical, geologic, and biologic characteristics of the oceans and coastal areas. Emphasis will be placed on the role of the oceans as a component of the global environment.
- Text: Investigating Oceanography 4th ed.
- Authors: Sverdrup & Kudela

OOI/ODL Resources Used in Class

- Laboratory Exercises
- Lab 1 Intro to OOI
- Lab 2 Data Skills
- Lab 5 Chemistry
- Lab 6 Physics
- Lab 7 Primary Production

- Data Explorations
- Chlorophyll-a in Upwelling and Stratified Temperate Regions
- Thermohaline Circulation
- Drivers of Seawater Density
- Seasonal Variability in the Mixed Layer

How I Use These Resources

- Classroom demonstrations during lecture
- Group activity during class time
- Homework assignments
- Replacement for lecture when I am not on campus

 I also recommend the videos and data resources available on the OOI webpage: oceanobservatories.org

Always Happy to Chat

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