Chaffey Oceanography Lecture Schedule – Fall 2024

Week #/Days and Due Dates	Study Topics, Tests and Assignments	Homework Study Assignments Oceanography 101 (MCO Text) Intro to Ocean Sciences (IOS Text) Endless Voyage Videos (EV videos) Prof's PP Slides: (PPP – Prof's Slides) Video Slide Tutorials: (VSL – Tutorials)
Week 1 9/3 – 9/8	Course Introduction, Syllabus, and Schedule Importance of Studying the Ocean Brief History of Marine Science The Scientific Method	Course Syllabus and Schedule MCO Ch 1 and/or (IOS Ch 1) PPP 1, EV Videos 1, VSL 1, 2
	Origin of Earth, Moon, Ocean, & Life Geologic Time and Age of the Earth	MCO Ch 2 and/or (IOS Ch 2) PPP 2 EV Videos 2 OTT 3, 4, 5, 6, 7
Thursday 9/5	**Personal Intro to Class Assignment**	Submit by Posting Greeting on Discussion Board
Sunday 9/8	**Quiz 1** – Syllabus & Schedule	Course Syllabus, Schedule and Ocean Intro
Week 2 9/9 – 9/15	Earth's Layered Physiology Isostasy Plate Tectonic Theory Seafloor Spreading and Subduction Plate Boundary Processes and Dynamics Evidence for the Plate Tectonic Theory	MCO Ch 3, 4 and/or (IOS Ch 4) PPP 3, 4 EV Video 3, 4 VSL 8, 9, 10, 11, 12, 13, 14, 15
Week 3 9/16 – 9/22	Methods of Studying the Seafloor Continental Margin Seafloor Provinces Deep-Ocean Basin Seafloor Province	MCO Ch 5 and/or (IOS Ch 3; EO Ch 3) PPP 5 EV Videos 5 VSL 16
	Marine Sediments	MCO Ch 6 and/or (IOS Ch 6) PPP 6 EV Videos 6 VSL 17
Wed 9/18	Withdrawal Deadline	Last day to withdraw from class with NO "W"
Sunday 9/22	**Quiz 2** – Origins and Plate Tectonics	MCO Ch 1–4; (IOS Ch 2-4)

Week 4 9/23 – 9/29	Physical and Chemical Properties of Seawater Seawater Salinity Ocean Stratification Properties	MCO Ch 7 and/or (IOS Ch 5) PPP 7 EV Videos 7, 8 VSL 18, 19, 20, 21, 22, 23, 24, 25, 26
Sunday 9/29	**Quiz 3** – Seafloors and Marine Sediments	MCO Ch 5, 6; (IOS Ch 3-6)
Week 5 9/30– 10/6	Atmospheric Properties and Processes Atmospheric Convection and Air Circulation; Storm Systems and Weather Patterns Air-Ocean Interactions	MCO Ch 8 and/or (IOS Ch 7) PPP 8 EV Video 10 VSL 27, 28, 29, 30, 31
Sunday 10/6	**Quiz 4** - Seawater Properties	MCO Chapter 7; (IOS Ch 5)
Week 6 10/7 – 10/13	Ocean Circulation Ocean surface currents Gyres Countercurrents	MCO Ch 9 and/or (IOS Ch 8) EV Videos 11 PPP 9 VSL 32, 33
	Upwelling and Downwelling Thermohaline Deep circulation El Nino and the Southern Oscillation (ENSO)	MCO Ch 9 and/or (IOS Ch 8) PPP 9 EV Videos 12 OTT 34
Week 7 10/14 - 10/20	Ocean Waves – Causes and Dynamics Wind Waves - Origin and Behavior Breaking Waves – Surfing Origin and nature of Tsunamis	MCO Ch 10 and/or (IOS Ch 9) PPP 10, 11 EV Videos 13 and 14 VSL 36, 37
Sunday 10/20	**Quiz 5** – Atmosphere and Ocean Circulation	MCO Ch 7, 8; IOS Ch 7-8
Sunday 10/20	Seafloors, Seawater, Atmosphere Circulation & Ocean Currents Research and Discussion Activity	Submit by Posting on Discussion Board
Week 8 10/21 - 10/27	Origin and nature of Tides	MCO Ch 11 and/or (IOS Ch 10) PPP 12 EV Video 15 VSL 38, 39, 40
Week 9 10/28- 11/3	Coasts, Beaches, and Shoreline Processes Human Impacts on Coastal Environments	MCO Ch 12 and/or (IOS Ch 11) PPP 13, 14 EV Videos 16, 17 VSL 41, 42, 43, 44
Tues 10/28	Withdrawal Deadline	Last day to withdraw from class with a "W"
Sunday 11/3	**Quiz 6** - Ocean Waves & Tides	MCO Ch 9, 10; (IOS 9, 10)

Week 10 11/4- 11/10	Marine Life - Physical Factors and Habitats Marine Life - Evolution & Classification	MCO Ch 13, and/or (IOS Ch 12) PPP 15, 16, 17 EV Videos 18, 19 VSL 44, 46, 47, 48, 47, 48, 49, 50, 51, 52, 53
	Primary Productivity Plankton and Marine Food Webs	MCO Ch 14 and/or (IOS Ch 13) PPP 18 EV Videos 20 VSL 54,
Sunday 11/10	**Quiz 7** - Shorelines and Coastal Waters	MCO Ch 11; (IOS Ch 11)
Sunday 11/10	Ocean Waves and Coastlines Research and Discussion Activity	Submit by Posting on Discussion Board
Week 11 11/11 - 11/17	Marine Invertebrates Marine Vertebrates Pelagic Marine Communities Benthic Marine Communities	MCO Ch 15, 16 and/or (IOS Ch 14, 15) PPP 19, 20, 21 EV Videos 21, 22, 23 VSL 55, 56, 57
Sunday 11/17	**Quiz 8** - Marine Life I – Overview, Primary Productivity and Plankton	MCO Ch 12-14; (IOS Ch 14-15)
Week 12 11/18 – 11/24	Marine Fisheries – Overview Fishing Practices – The Good, Bad, and the Ugly Fishing Concerns, Management, and Solutions Physical and Energy Marine Resources Resource Extraction Impacts on Marine Habitats	PPP 22 EV Video 24 VSL 58 Special Reading and Video Selections: 1) Marine Ecosystems and Fisheries Report PDF 2) "Troubled Waters" Fisheries Documentary 3) "Overfishing: The Worst and Best Fish to Eat"
Sunday 11/24	**Quiz 9** - Marine Life II – Marine Animals, Marine Communities, and the Fisheries	MCO Ch 15,16
Week 13 11/28- 12/1	Marine Environmental Concerns: Marine Pollution Climate Change Ocean Warming/Sea level Rise Ocean Acidification	MCO Ch 17 or (IOS Ch 16) PPP 23, 24 EV Video 25 VSL 58. 59. 60 Special Reading and Video Selections:
Sunday 12/1	**Quiz 10** - Marine Pollution & Climate Change	MCO Ch 17; IOS Ch 16
Week 14 12/2 - 12/8	Review/Study for Final Exam	Final Study Guide

Friday 12/6	Marine Life and Environmental Concerns Research and Discussion Activity	Submit by Posting on Discussion Board
Friday 12/6	Extra Credit due date	Submit in Assignment Folder
Sunday 12/8	**Final Exam**	MCO Ch 1–17; (IOS Ch 1-16)

Please Note: This is a tentative schedule and may be changed by the instructor at any time during the semester. Students will be notified in a timely basis if changes are made.