

MiraCosta Oceanography Schedule – Summer 2018

Date	Class Meeting Lecture and Discussion Topics	Homework Assignments/Testing Textbook Reading (TT and/or GB); Online EV Video Viewing; Quiz and Exam Due Dates
Mon 6/18	Course Introduction Importance of Studying the Ocean Brief History of Marine Science The Scientific Method Origin of Earth, Moon, Ocean, & Life	Course Syllabus and Schedule TT Chapter 1; GB Chapters 1, 2 EV Videos 2 and 9 Canvas Quiz 1 - Syllabus & Sched
Tues 6/19	Geologic Time and Age of the Earth Earth's Layered Physiology Continental Drift Hypothesis Plate Tectonic Theory Seafloor Spreading and Subduction	TT Chapter 2 GB Chapters 3, 4 EV Video 3
Wed 6/20	Evidence for the Plate Tectonic Theory Methods of Studying the Seafloor Continental Margin Seafloor Deep-Ocean Basin Seafloor Marine Sediments	TT Chapters 2, 3, 4 GB Chapters 4, 5, 6 EV Videos 4, 5, 6
Thu 6/21 11:15am	Mandatory Fieldtrip #1 - Torrey Pines Beach - Coastal Geology, Tectonics, and Sediments	See prof's website for field trip info and worksheet
Sun 6/24		
Mon 6/25	Physical and Chemical Properties of Seawater	TT Chapter 5; GB Chapter 7 EV Videos 7, 8 & 9
Tues 6/26	Atmospheric Properties, Processes & Circulation Storm Systems, Weather Patterns and Climate	TT Chapter 6; GB Chapter 8 EV Videos 9 & 10
Wed 6/27	Ocean surface currents and Gyres Upwelling and Downwelling Thermohaline Deep circulation Review for Exam 1	TT Chapter 7; GB Chapter 9 EV Videos 11 and 12 Exam 1 Study Guide & Practice Test Canvas Quiz 2 - TT Chapters 1, 2 Canvas Quiz 3 - TT Chapters 3, 4
Thur 6/28	Ocean Waves – Causes and Dynamics Exam 1 – (Chapters 1 through 4) (Bring a 100-answer scantron card and #2 pencil!)	TT Chapter 8; GB Chapter 10 EV Video 13
Mon 7/2	Wind Waves - Origin and Behavior Breaking Waves – Surfing Origin and nature of Tsunamis	TT Chapter 8; GB Chapter 10 EV Video 13 EV Video 14
Tues 7/3 11:15am	Mandatory Fieldtrip #2 - Blacks Beach - Waves and Currents Review for Exam 2	See prof's website for fieldtrip info and worksheet Exam 2 Study Guide & Practice Test Canvas Quiz 4 - TT Chapter 5 Canvas Quiz 5 - TT Chapters 6, 7

Wed 7/4	Fourth of July Holiday	No Class/No Work
Thur 7/5	Origin and nature of Tides Exam 2 – (Chapters 5 through 7) (Bring a 100-answer scantron card and #2 pencil!)	TT Chapter 9; GB Chapter 11 EV Video 15
Mon 7/9	Coastlines, Beaches, and Shoreline Processes Human Influences on Coastal Environments	TT Chapters 10, 11 ; GB Chapter 12 EV Videos 16, 17
Tues 7/10	Marine Life - Evolution & Classification Marine Life - Physical Factors and Habitats Primary bio-production Types of Phytoplankton and Seaweeds Marine Feeding Relationships	TT Chapters 12, 13 GB Chapters 13, 14 EV Videos 18, 19, 20
Wed 7/11 11:15 am	Mandatory Fieldtrip #3 - Moonlight Beach – Coastal Erosion Review for Exam 3	See professor's website for fieldtrip #3 info and worksheet Exam 3 Study Guide & Practice Test Canvas Quiz 6 - TT Chapters 8, 9 Canvas Quiz 7 - TT Chapters 10, 11
Thur 7/12	Marine Zooplankton and other marine Invertebrates Exam 3 – (Chapters 8 through 11) (Bring a 100-answer scantron card and #2 pencil!)	TT & GB Chapters 13, 14, 15 EV Videos 21, 22, and 23
Mon 7/16	Marine Invertebrates and Fishes In Benthic and Pelagic Marine Communities Last day to withdraw with a "W"	TT & GB Chapters 13, 14, 15 GB Chapters 13, 14, 15 EV Videos 21, 22, and 23
Tues 7/17	Marine Fishes, Mammals and Birds In Benthic and Pelagic Marine Communities	TT Chapters 13, 14, 15 GB Chapters 13, 14, 15 EV Videos 21, 22, and 23
Wed 7/18 11:15am	Mandatory Fieldtrip #4 - Batiquitos Lagoon and Estuary – Marine Habitats and Wildlife, and Environmental Issues	See professor's website for fieldtrip #4 info and worksheet
Thur 7/19	Marine Biological Resources– Marine Fisheries Marine Seafloor Resources – Physical and Energy	Professor's Lectures and Power Points EV Video 24
Mon 7/23	Environmental Concerns -- Coastal Pollution	TT Chapter 11; GB Chapter 17 EV Video 25
Tues 7/24 11:15am	Mandatory Fieldtrip #5 - Birch Aquarium – Focus on Marine Habitats and Sea life, and Environmental Issues	See professor's website for fieldtrip #5 info and worksheet
Wed 7/25	Environmental Concerns – Climate Change Review for Final Exam Extra Credit due date	TT Chapter 16; GB Chapter 17 EV Videos 25 and 26 Final Study Guide & Practice Test Canvas Quiz 8 - TT Chapters 12, 13 Canvas Quiz 9 - Marine Resources Canvas Quiz 10 - TT Chaps 11, 16
Thur 7/26	Final Exam - (Chapters 12 through 15)	Bring a Scantron card

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