

## MiraCosta Oceanography Tu-Th Schedule – Fall 2018

Date	Class Meeting Lecture and Discussion Topics	Homework/Tests Textbook Reading and Online Video Viewing
Tu 8/21	Course Introduction Importance of Studying the Ocean Brief History of Marine Science The Scientific Method	Course Syllabus and Schedule TT Ch 1; GB Ch1 EV Videos 2 and 9
Th 8/23	Origin of Earth, Moon, Ocean, & Life Geologic Time and Age of the Earth Earth's Layered Physiology	TT Ch 1, 2; GB Ch 1, 2 EV Videos 1 and 3
Tu 8/28	Continental Drift Hypothesis Plate Tectonic Theory Seafloor Spreading and Subduction	TT Ch 2: GB Ch 4 EV Videos 3, 4
Th 8/30	Evidence for the Plate Tectonic Theory <b>Deadline to withdraw w/ refund &amp; no "W" is September 1</b>	TT Ch 2; GB Ch 4 EV Videos 3, 4
Sun 9/2	<b>Canvas Quiz 1</b> - Syllabus & Schedule	<b>Canvas Quiz 1 - Syllabus</b>
Tu 9/4	Methods of Studying the Seafloor Continental Margin Seafloor Deep-Ocean Basin Seafloor	TT Ch 3: GB Ch 5 EV Video 5
Th 9/6	Marine Sediments	TT Ch 4: GB Ch 6 EV Video 6
Sat 9/8 2 PM	<b>Voluntary Weekend Fieldtrip</b> - Torrey Pines Beach - Coastal Geology and Tectonics Theme	Online Fieldtrip guide
Tu 9/11	Physical and Chemical Properties of Seawater <b>Research Project Topic Due</b>	TT Ch 4: GB Ch 6 EV Video 6
Th 9/13	Physical and Chemical Properties of Seawater	TT Ch 5; GB Ch 7 EV Videos 7, 8 & 9
Sun 9/9	<b>Canvas Quiz 2</b> - Ocean Origin and Plate Tectonics <b>Canvas Quiz 3</b> - Seafloors and Sediments	<b>Canvas Quiz 2 - TT Ch 1, 2</b> <b>Canvas Quiz 3 - TT Ch 3, 4</b>
Tu 9/18	Atmospheric Properties, Processes & Circulation Storm Systems, Weather Patterns and Climate Review for Exam 1	TT Ch 6; GB Ch 8 EV Video 10 Exam 1 Study Guide Practice Exam 1
Th 9/20	<b>Exam 1</b> – (Chapters 1 through 4) (Bring a 100-answer scantron card and #2 pencil!)	Exam 1 Study Guide Practice Exam 1
Tu 9/25	Ocean surface currents and Gyres	TT Ch 7; GB Ch 9 EV Video 11
Th 9/27	Ocean vertical currents, and Deep circulation	TT Ch 7; GB Ch 9 EV Video 12

Tu 10/2	Water Waves – Causes and Dynamics Wind Waves - Origin and Behavior	TT Ch 8; GB Ch 10 EV Video 13
Th 10/4	Breaking Waves – Surfing	TT Ch 8; GB Ch 10 EV Videos 13, 14
Sun 10/7 10 AM	<b>Voluntary Weekend Fieldtrip</b> - Blacks Beach Waves & Currents	Online Fieldtrip guide
Tu 10/9	Origin and nature of Tsunami	TT Ch 10; GB Ch 11 EV Video 15
Th 10/11	Origin and nature of Tides  Coastlines, Beaches, and Shoreline Processes	TT Ch 10, 11; GB Ch 12 EV Video 16
Sun 10/14	<b>Canvas Quiz 4</b> - Seawater Properties <b>Canvas Quiz 5</b> - Atmosphere and Ocean Circulation	<b>Canvas Quiz 4 - TT Ch 5</b> <b>Canvas Quiz 5 - TT Ch 6, 7</b>
Tu 10/16	Coastlines, Beaches, and Shoreline Processes Human Influences on Coastal Environments  <b>Review for Exam 2</b>	TT Ch 11; GB Ch 12 EV Video 17 Exam 2 Study Guide Practice Exam 2
Th 10/18	<b>Exam 2</b> – (Chapters 5 through 7) (Bring a 100-answer scantron card and #2 pencil!)	Exam 2 Study Guide Practice Exam 2
Sat 10/20 10 AM	<b>Voluntary Weekend Fieldtrip</b> - Moonlight Beach Coastal Processes Theme	Online Fieldtrip guide
Tu 10/23	Coastlines, Beaches, and Shoreline Processes Human Influences on Coastal Environments	TT Ch 11; GB Ch 12 EV Video 17
Th 10/25	Marine Life - Evolution & Classification Marine Life - Physical Factors and Habitats	TT Ch 12; GB Ch 13, 14 EV Videos 18, 19
Tu 10/30	Marine Food Webs and Feeding Relationships Primary bio-production Types of Phytoplankton and Seaweeds	TT Ch 13; GB Ch 12 EV Videos 20
Th 11/1	Marine Invertebrates and Fishes Marine Communities	TT Ch 14, 15; GB Ch 14, 15, 16; EV Videos 21, 22, 23
Sun 11/4	<b>Canvas Quiz 6</b> - Ocean Waves <b>Canvas Quiz 7</b> - Shorelines	<b>Canvas Quiz 6 - TT Ch 8, 9</b> <b>Canvas Quiz 7 - TT Ch 10, 11</b>
Tu 11/6	Marine Invertebrates, Fishes and Mammals Marine Communities  <b>Review for Exam 3</b>	TT Ch 14, 15; GB Ch 14, 15, 16; EV Videos 21, 22, 23 Exam 3 Study Guide Practice Exam 3
Th 11/8	<b>Exam 3</b> – (Chapters 8 through 11) (Bring a 100-answer scantron card and #2 pencil!)	Exam 3 Study Guide Practice Exam 3
Sun 11/11	<b>Voluntary Weekend Fieldtrip</b> - Birch Aquarium Marine Life and Environmental Issues Theme	Online Fieldtrip guide 9 am meeting time

Tu 11/13	Marine Biological Resources– Marine Fisheries Marine Seafloor Resources – Physical and Energy	TT Ch 10, 11; GB Ch 12 EV Video 24
Th 11/15	Environmental Concerns -- Marine Pollution <b>Deadline to withdraw with a "W" is November 17</b> <b>Oral Presentation Written Outline due -</b>	TT Ch 16; GB Ch 17 EV Video 25; Teacher's Refs
Tu 11/20	Environmental Concerns – Global Warming / Climate Change	TT Ch 11, 16; GB Ch 17 EV Video 25; Teacher's Refs
Th 11/22	<b>Thanksgiving Holiday</b>	No course work
Tu 11/27	<b>Student Presentations</b> -- See website for details	Prepare Presentation
Th 11/29	<b>Student Presentations</b> -- See website for details	Prepare Presentation
Tu 12/4	<b>Student Presentations</b> -- See website for details	Prepare Presentation
Th 12/6	<b>Student Presentations</b> -- See website for details <b>Review for Final Exam</b> <b>Last day to turn in Extra Credit – No Exceptions</b>	Final Study Guide Final Practice Exam
Sun 12/9	<b>Canvas Quiz 8</b> - Marine Life I <b>Canvas Quiz 9</b> - Marine Life II <b>Canvas Quiz 10</b> - Marine Resources, Pollution & Climate Change	<b>Canvas Quiz 8</b> - TT Ch 12, 13 <b>Canvas Quiz 9</b> - TT Ch 14, 15 <b>Canvas Quiz 10</b> - TT Ch 11, 16
Th 12/13	<b>Final Exam</b> - 4:00pm to 5:50pm (Chapters 12 through 15)	Final Study Guide Final Practice Exam

**Disclaimer:** 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.