

## MiraCosta Oceanography Tu-Th Schedule – Spring 2019

Date	Class Meeting Lecture and Discussion Topics	Homework & Testing Textbook Reading and Online Video Viewing
Tu 1/22	Course Introduction Importance of Studying the Ocean Brief History of Marine Science	Syllabus and Schedule TT Ch 1; GB Ch1 EV Videos 2 and 9
Th 1/24	The Scientific Method 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
Sun 1/27	<b>Canvas Quiz 1</b> - Syllabus & Schedule	<b>Canvas Quiz 1 - Syllabus</b>
Tu 1/29	Continental Drift Hypothesis Plate Tectonic Theory Seafloor Spreading and Subduction	TT Ch 2: GB Ch 4 EV Videos 3, 4
Th 2/31	Evidence for the Plate Tectonic Theory <b>Last day to withdraw with refund &amp; no "W" is Sunday, February 3</b>	TT Ch 2; GB Ch 4 EV Videos 3, 4
Sun 2/3	<b>Canvas Quiz 2</b> - Ocean Origin and Plate Tectonics	<b>Canvas Quiz 2 - TT Ch 1, 2</b>
Tu 2/5	Methods of Studying the Seafloor Continental Margin Seafloor Deep-Ocean Basin Seafloor	TT Ch 3: GB Ch 5 EV Video 5
Th 2/7	Marine Sediments	TT Ch 4: GB Ch 6 EV Video 6
Sat 2/9 10 AM	<b>Voluntary Weekend Fieldtrip</b> - Torrey Pines Beach - Coastal Geology and Tectonics Theme	Online Fieldtrip guide
Sun 2/10	<b>Canvas Quiz 3</b> - Seafloors and Sediments	<b>Canvas Quiz 3 - TT Ch 3, 4</b>
Tu 2/12	Physical and Chemical Properties of Seawater <b>Research Project Proposal due – Review for Exam 1</b>	TT Ch 4: GB Ch 6 EV Video 6
Th 2/14	<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 2/19	Physical and Chemical Properties of Seawater	TT Ch 5; GB Ch 7 EV Videos 7, 8 & 9
Th 2/21	Atmospheric Properties, Processes & Circulation Storm Systems, Weather Patterns and Climate	TT Ch 6; GB Ch 8 EV Video 10
Tu 2/26	Ocean surface currents and Gyres	TT Ch 7; GB Ch 9 EV Video 11

Th 2/28	Ocean vertical currents, and Deep circulation	TT Ch 7; GB Ch 9 EV Video 12 <b>Canvas Quiz 5</b> - Ch 6, 7
Sun 3/3 10 AM	<b>Voluntary Weekend Fieldtrip</b> - Blacks Beach Waves and Currents Theme	Online Fieldtrip guide
Sun 3/3	<b>Canvas Quiz 4</b> - Seawater Properties	<b>Canvas Quiz 4</b> - TT Ch 5
Tu 3/5	Water Waves – Causes and Dynamics Wind Waves - Origin and Behavior	TT Ch 8; GB Ch 10 EV Video 13
Th 3/7	Breaking Waves – Surfing Origin and nature of Tsunamis	TT Ch 8; GB Ch 10 EV Videos 13, 14
Sun 3/10	<b>Canvas Quiz 5</b> - Atmosphere and Ocean Circulation	<b>Canvas Quiz 5</b> - TT Ch 6, 7
Tu 3/12	Origin and nature of Tides <b>Review for Exam 2</b>	TT Ch 10, 11; GB Ch 12 EV Video 16
Th 3/14	<b>Exam 2</b> – (Chapters 5 through 7) (Bring a 100-answer scantron card and #2 pencil!)	Exam 2 Study Guide Practice Exam 2
Tu 3/19	<b>Spring Break</b>	<b>No Class/No Work</b>
Th 3/21	<b>Spring Break</b>	<b>No Class/No Work</b>
Tu 3/26	Coastlines, Beaches, and Shoreline Processes	TT Ch 11; GB Ch 12 EV Video 17
Th 3/28	Human Influences on Coastal Environments	TT Ch 11; GB Ch 12 EV Video 17
Sun 3/31	<b>Canvas Quiz 6</b> - Ocean Waves	<b>Canvas Quiz 6</b> - TT Ch 8, 9
Tu 4/2	Marine Life - Evolution & Classification Marine Life - Physical Factors and Habitats	TT Ch 12; GB Ch 13, 14 EV Videos 18, 19
Th 4/4	Primary bio-production Types of Phytoplankton and Seaweeds Marine Feeding Relationships	TT Ch 13; GB Ch 12 EV Videos 20
Sun 4/7	<b>Canvas Quiz 7</b> - Shorelines	<b>Canvas Quiz 7</b> TT Ch 10, 11
Tu 4/9	Marine Invertebrates and Fishes Marine Communities <b>Review for Exam 3</b>	TT Ch 14, 15; GB Ch 14, 15, 16; EV Videos 21, 22, 23
Th 4/11	<b>Exam 3</b> – (Chapters 8 through 11) (Bring a 100-answer scantron card and #2 pencil!)	Exam 3 Study Guide Practice Exam 3
Sat 4/13 2 PM	<b>Voluntary Weekend Fieldtrip</b> - Moonlight Beach Coastal Processes Theme	Online Fieldtrip guide
Sun 4/14	<b>Canvas Quiz 8</b> - Marine Life I	<b>Canvas Quiz 8</b> -TT Ch 12, 13
Tu 4/16	Marine Invertebrates, Fishes and Mammals Marine Communities	TT Ch 14, 15; GB Ch 14, 15, 16; EV Videos 21, 22, 23

Th 4/18	Marine Biological Resources– Marine Fisheries Marine Seafloor Resources – Physical and Energy	Chapters 4 and 13 EV Video 24
Tu 4/23	Marine Biological Resources– Marine Fisheries Marine Seafloor Resources – Physical and Energy	TT Ch 10, 11; GB Ch 12 EV Video 24
Th 4/25	Environmental Concerns -- Marine Pollution <b>Last day to withdraw with a "W" is Thursday, April 25</b>	Chapter 11 EV Video 25
Sun 4/28	<b>Canvas Quiz 9</b> - Marine Life II	<b>Canvas Quiz 9</b> -TT Ch 14, 15
Tu 4/30	Environmental Concerns -- Marine Pollution <b>Oral Presentation Written Outline due</b> -	TT Ch 11, 16; GB Ch 17 EV Video 25; Teacher's Refs
Th 5/2	Environmental Concerns – Global Warming / Climate Change	TT Ch 11, 16; GB Ch 17 EV Video 25; Teacher's Refs
Sun 5/5	<b>Voluntary Weekend Fieldtrip</b> - Birch Aquarium Marine Life and Environmental Issues Theme	Online Fieldtrip guide 9 am meeting time
Sun 5/5	<b>Canvas Quiz 10</b> - Marine Resources, Pollution & Climate Change	<b>Canvas Quiz 10</b> -TT Ch 11, 16
Tu 5/7	<b>Student Presentations</b> -- See website for details	Prepare Presentation
Th 5/9	<b>Student Presentations</b> -- See website for details	Prepare Presentation
Tu 5/14	<b>Student Presentations</b> -- See website for details	Prepare Presentation
Th 5/16	<b>Student Presentations</b> -- See website for details <b>Last day to turn in Extra Credit – No Exceptions</b> Review for Final Exam	Final Study Guide Final Practice Exam
Tu 5/21	<b>No Class - Finals Week</b>	Study for Final Exam
Th 5/23	<b>Final Exam</b> - 4:00pm to 5:50pm (Chapters 12 through 15)	Study for Final Exam

**Disclaimer:** This is a tentative schedule and may be changed by the instructor at anytime during semester.