MiraCosta Oceanography Tu-Th Schedule – Spring 2020

Date	Class Meeting Lecture and Discussion Topics	Homework & Testing Textbook Reading and Online Video Viewing
Tu 1/21	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 1/23	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
Mon 1/27	**Canvas Quiz 1** - Syllabus & Schedule	**Canvas Quiz 1 - Syllabus**
Tu 1/28	Continental Drift Hypothesis Plate Tectonic Theory Seafloor Spreading and Subduction	TT Ch 2: GB Ch 4 EV Videos 3, 4
Th 2/30	Evidence for the Plate Tectonic Theory **Last day to withdraw with refund & no "W" is Sunday, February 3**	TT Ch 2; GB Ch 4 EV Videos 3, 4
Tu 2/4	Methods of Studying the Seafloor Continental Margin Seafloor Deep-Ocean Basin Seafloor	TT Ch 3: GB Ch 5 EV Video 5
Th 2/5	Marine Sediments	TT Ch 4: GB Ch 6 EV Video 6
Tu 2/11	Physical and Chemical Properties of Seawater **Research Project Proposal due –**	TT Ch 4: GB Ch 6 EV Video 6
Th 2/13	Physical and Chemical Properties of Seawater	TT Ch 5; GB Ch 7 EV Videos 7, 8 & 9
Tu 2/18	Atmospheric Properties, Processes & Circulation Storm Systems, Weather Patterns and Climate	TT Ch 6; GB Ch 8 EV Video 10
Th 2/20	Ocean surface currents and Gyres **Review for Exam 1**	TT Ch 7; GB Ch 9 EV Video 11
Sat 2/22 @ 10 am	**Voluntary Weekend Fieldtrip** - Torrey Pines Beach - Coastal Geology and Tectonics Theme	See course's online fieldtrip #1 info link for details
Mon 2/24	**Canvas Quiz 2** - Ocean Origin and Plate Tectonics	**Canvas Quiz 2 - TT Ch 1, 2**
Mon 2/24	**Canvas Quiz 3** - Seafloors and Sediments	**Canvas Quiz 3** - TT Ch 3, 4
Tu 2/25	**Exam 1** – (Chapters 1 through 4) (Bring a 100-answer scantron card and #2 pencil!)	Exam 1 Study Guide Practice Exam 1
Th 2/27	Ocean vertical currents, and Deep circulation	TT Ch 7; GB Ch 9 EV Video 12
Tu 3/3	Water Waves – Causes and Dynamics	TT Ch 8; GB Ch 10

	Wind Waves - Origin and Behavior	EV Video 13
Th 3/5	Breaking Waves – Surfing Origin and nature of Tsunamis	TT Ch 8; GB Ch 10 EV Videos 13, 14
Tu 3/10	Origin and nature of Tides	TT Ch 10, 11; GB Ch 12 EV Video 16
Th 3/12	Coastlines, Beaches, and Shoreline Processes **Review for Exam 2**	TT Ch 11; GB Ch 12 EV Video 17
Tu 3/17	**Spring Break**	**No Class/No Work**
Th 3/19	**Spring Break**	**No Class/No Work**
Mon 3/23	**Canvas Quiz 4** - Seawater Properties	**Canvas Quiz 4** - TT Ch 5
Mon 3/23	**Canvas Quiz 5** - Atmosphere and Ocean Circulation	**Canvas Quiz 5** - TT Ch 6, 7
Tu 3/24	**Exam 2** – (Chapters 5 through 7) (Bring a 100-answer scantron card and #2 pencil!)	Exam 2 Study Guide Practice Exam 2
Th 3/26	Human Influences on Coastal Environments	TT Ch 11; GB Ch 12 EV Video 17
Sun 3/29 @ 10 am	**Voluntary Weekend Fieldtrip -** Blacks Beach Waves and Currents Theme	See course's online fieldtrip #2 info link for details
Tu 3/31	Marine Life - Evolution & Classification Marine Life - Physical Factors and Habitats	TT Ch 12; GB Ch 13, 14 EV Videos 18, 19
Th 4/2	Primary bio-production Types of Phytoplankton and Seaweeds Marine Feeding Relationships	TT Ch 13; GB Ch 12 EV Videos 20
Tu 4/7	Marine Invertebrates and Fishes Marine Communities	TT Ch 14, 15; GB Ch 14, 15, 16; EV Videos 21, 22, 23
Th 4/9	Marine Invertebrates, Fishes and Mammals Marine Communities **Review for Exam 3**	TT Ch 14, 15; GB Ch 14, 15, 16; EV Videos 21, 22, 23
Sat 4/11 @ 10 am	**Voluntary Weekend Fieldtrip** - Moonlight Beach Coastal Processes Theme	See course's online fieldtrip #3 info link for details
Mon 4/13	**Canvas Quiz 6** - Ocean Waves	**Canvas Quiz 6** - TT Ch 8, 9
Mon 4/13	**Canvas Quiz 7** - Shorelines	**Canvas Quiz 7** TT Ch 10, 11
Tu 4/14	**Exam 3** – (Chapters 8 through 11) (Bring a 100-answer scantron card and #2 pencil!)	Exam 3 Study Guide Practice Exam 3
Th 4/16	Marine Biological Resources– Marine Fisheries Marine Seafloor Resources – Physical and Energy	Chapters 4 and 13 EV Video 24
Tu 4/21	Marine Biological Resources– Marine Fisheries Marine Seafloor Resources – Physical and Energy	TT Ch 10, 11; GB Ch 12 EV Video 24
Th 4/23	Environmental Concerns -- Marine Pollution **Last day to withdraw with a "W" is Thursday, April 25**	Chapter 11 EV Video 25

Tu 4/28	Environmental Issues -- Marine Pollution **Oral Presentation Written Outline due -**	TT Ch 11, 16; GB Ch 17 EV Video 25; Teacher's Refs
Th 4/30	Environmental Concerns – Global Warming / Climate Change	TT Ch 11, 16; GB Ch 17 EV Video 25; Teacher's Refs
Sun 5/3 @ 9 am	**Voluntary Weekend Fieldtrip** - Birch Aquarium Marine Life and Environmental Issues Theme	See course's online fieldtrip #4 info link for details
Tu 5/5	**Student Presentations** -- See website for details	Prepare Presentation
Th 5/7	**Student Presentations** -- See website for details	Prepare Presentation
Tu 512	**Student Presentations** -- See website for details	Prepare Presentation
Th 5/14	**Student Presentations** -- See website for details **Last day to turn in Extra Credit** – No Exceptions Review for Final Exam	Final Study Guide Final Practice Exam
Tu 5/19	**No Class - Finals Week**	Study for Final Exam
Wed 5/20	**Canvas Quiz 8** - Marine Life I **Canvas Quiz 9** - Marine Life II **Canvas Quiz 10** - Marine Resources, Pollution & Climate Change	**Canvas Quiz 8** -TT Ch 12, 13 **Canvas Quiz 9** -TT Ch 14, 15 **Canvas Quiz 10** -TT Ch 11, 16
Th 5/21	**Final Exam** - 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.