

2023 schedule EAOS111 Earth and Ocean Science

WEEK	MONDAY 12 - 12:50 pm	TUESDAY 12 - 12:50 pm	THURSDAY 12 - 12:50 pm	FRIDAY 12 - 12:50 pm	M, Tu, W, Th LAB	SAT / SUN FIELD TRIP
1 27-Feb 3-Mar	EAOS 111: Your place on planet Earth CRR	The Earth system S&M: Ch 1 CRR watch "Men of Rock: Deep Time" on YouTube	The journey to modern geology S&M: CH 7 CRR	Deep time S&M: pp 101-105 CRR	Lab 1 Your Place on Planet Earth	
2 6-Mar 10-Mar	Origin of the Universe, our solar system S&M: pp 81-90, 94-100 CO	The chaotic solar system and our planet friends S&M: pp 85-92 CO	Gravity and Earth S&M: pp 40-42 CO	Earths magnetic field S&M: pp 116-120 CO	Lab 2 Deep Time and the Geologic Record	North Otago field trip
3 13-Mar 17-Mar	Continental Drift S&M: pp 111-115 SB	Plate Boundaries S&M: pp 23-26, 116-125 SB	What Lies Beneath S&M: pp 61-63, 125-131 SB	New Zealand's plate boundary S&M: pp 143-183 SB	Lab 3 Plate Tectonics	
4 20-Mar 24-Mar	The Shakey Isles S&M: pp 144-158 JW	Our Hot Volcanoes S&M: pp 161-176 RB	Weathering S&M: pp 146-150 CEM Class Reps meeting 1 pm	Weathering and soils II S&M: pp 74-75, 186-187, 467-472 CEM	Lab 4 NZ's Plate Boundary and Seismology	
5 27-Mar 31-Mar	Global biogeochemical cycles S&M: pp 450-470 CEM	Global biogeochemical cycles II CEM	Hydrologic cycle S&M: pp 228-238 CO	Fluvial systems S&M: pp 238-241 CO	Lab 5 Discovering Zealandia Te Riu a Māui	Taieri field trip
6 3-Apr 7-Apr	Landforms Deltas S&M: pp 212-215, 234 - 238 CO	Field methods in marine geology and geophysics ARG	Midterm Exam	HOLIDAY	Lab 6 Fluvial Processes	

MID-SEMESTER BREAK 7 - 16 April

WEEK	MONDAY 12 - 12:50 pm	TUESDAY 12 - 12:50 pm	THURSDAY 12 - 12:50 pm	FRIDAY 12 - 12:50 pm	M, Tu, W, Th LAB	SAT / SUN FIELD TRIP
7 17-Apr 21-Apr	Marine sediment classification and transport S&M: pp 293-294, 302-314 CRR	Marine sedimentation distribution CRR	Glaciers and ice sheets S&M: pp 258-276 CRR	Ice in the Earth system S&M: pp 275-284 CRR	Marine Geology & Oceanography I (Polaris cruise)	Marine Geology & Oceanography I (Polaris cruise)
8 24-April 28-April	No Lecture	ANZAC day	Water S&M: pp 10-16; Ch 8 AS	Seawater S&M: pp 287-293 AS	No lab	
9 1-May 5-May	Marine Carbon and Ocean Acidification S&M: Ch 10 CL	Marine Nutrients S&M: Ch 10 CL	Dissolved Gases in the Ocean S&M: Ch 10 CL Class reps meeting 1 pm	Iron, Carbon and Climate CL	Lab 8 Marine Geology & Oceanography II	
10 8-May 12-May	Light and Sound in the Sea S&M: Ch 10 AS	Presenting Marine Data AS	Atmosphere Circulation I S&M: Ch 11 RS	Atmospheric Circulation II S&M: Ch 11 RS	Lab 9 Seafloor Sediments	
11 15-May 19-May	Wind-drive Ocen Currents I RS	Wind-drive Ocen Currents II RS	El Nino-Southern Oscillation (ENSO) S&M: Ch 10 RS	Thermohaline Circulation S&M: Ch 10 RS	Lab 10 pH & Ocean Acidification, Stratified Ocean	
12 22-May 26-Jun	Waves RS S&M: Ch 10	Tides S&M: Ch 10 RS	Paleoceanography - linking the past to the present S&M: Ch 17 & 18 CRR	Paleoceanography - linking the past to the present II S&M: Ch 19 CRR	Lab 11 Tsunami Simulation & Prediction	
13 29-May 2-Jun	Humans shaping the earth; Earth shaping humanity CRR S&M: Ch 17 & 18	The Anthropocene debate: Are humans responsible for a new geologic epoch? S&M: Ch 19 CRR	Exam Q and A - Last Day of lectures	NO Lecture	No lab	

EXAMINATIONS 7-21 June

STAFF:

CO	Dr Christian Ohneiser(co-ordinator, christian.ohneiser@otago.ac.nz)	JW	Dr Jack Williams
SB	Dr Sophie Briggs (teaching fellow, sophie.briggs@otago.ac.nz)	RB	Rachael Baxter
ARG	Assoc Prof Andrew Gorman	CRR	Dr Christina Riesselman
CL	Dr Cliff Law	AS	Prof Abby Smith
CEM	Dr Candace Martin	RS	Dr Robert Smith

TEXTBOOK (recommended):

S&M: The Blue Planet: An Introduction to Earth System Science, Brian Skinner & Barbara Murck, 3rd ed. (2011). There are a limited number of copies available on reserve and online (https://ebookcentral-proquest-com.ezproxy.otago.ac.nz/lib/otago/detail.action?docID=4868967#goto_toc) at Science Library.

FIELD TRIPS:

Field trips are an essential learning activity in EAOS111. Attendance is mandatory. Field trips run - rain or shine - usually on Saturday or Sunday (refer to schedule above).

ASSESSMENT:

The final mark for EAOS111 is made up of the following:

Fieldtrip assessments (3 x 10%)	30%
Class Exam (50 mins, 6-Apr)	15%
Final exam (TBA)	55%
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	100%