

**SIO 102 CLASS SCHEDULE**  
**Winter, 2019**

T	Jan. 8	Formation and Abundance of the Elements; Isotopes and Radioactivity
Th	Jan. 10	Radioactivity cont.; Age of the Elements, the Universe and Earth
T	Jan. 15	Principles of Planetary Geochemistry: Chemical Evolution of the Solid Earth and Planets, and Meteorites
Th	Jan. 17	The “Geochemical periodic Table”
T	Jan. 22	Chemical Evolution of the Earth’s Core and Mantle
Th	Jan. 24	Chemical Evolution of the Crust and Subduction Zone Processes
T	Jan. 29	The Origin and Evolution of the Ocean
Th	Jan. 31	Ocean Chemistry and Processes
T	Feb. 5	Hydrothermal Processes and their Geochemical Significance
Th	Feb. 7	Marine Sediments, Sources, and Significance of Each
T	Feb. 12	<b>MID-QUARTER EXAMINATION</b>
Th	Feb. 14	Principles of Light Stable Isotope Fractionation
T	Feb. 19	The Light Stable Isotopes O and H and the Hydrologic Cycle
Th	Feb. 21	The Global Carbon Cycles; Carbon Isotopes
T	Feb. 26	Chemical Paleoceanography _ Fluid Inclusions and Ocean Acidification
Th	Feb. 28	Chemical Paleoceanography – Geochemical Proxies, case studies: the K/Pg Boundary, and Sr Isotopes for Weathering and Tectonics
T	Mar. 5	Ice Core Records
Th	Mar. 7	Atmospheric Chemistry and Evolution of Oxygen; The Ozone Problem
T	Mar. 12	Guest Lecture on Some “Hot” Topic in Geochemistry
Th	Mar. 14	Summary and Review