

Course Schedule AY 2021-2022

Division of Geological and Planetary Sciences

Fall 2021	Winter 2022	Spring 2022
Division Ge 11 a. Wernicke (Earth as a Planet) Ge 101. Wernicke (Introduction to Geology and Geochemistry) Ge 108. Brown (Applications of Physics to the Earth Sciences)	Ge 10. Thompson (Frontiers in Geological and Planetary Sciences) Ge 11 b. Fischer, Kirschvink (Earth and the Biosphere) Ge 11 d. Clayton, Gurnis (Introduction to Earth and Planetary Sciences: Geophysics) Ge 102. Clayton, Gurnis (Introduction to Geophysics) Ge 104. Fischer, Kirschvink (Introduction to Geobiology)	Ge 1. Asimow (Earth and Environment) Ge/Ay 11 c. Ingersoll (Planetary Sciences) Ge 103. Ingersoll (Introduction to the Solar System) Ge/EE/ESE 157 c. Ehlmann (Remote Sensing for Environmental and Geological Applications)
Geobiology	Bi/Ge/ESE 105. Orphan (Evolution) Ge/ESE/Bi 248. Orphan (Environmental Justice)	Ge/Bi/BE/CNS/ESE 147. Fischer (Challenges and Opportunities in Quantitative Ecology) Ge/Bi 244. Kirschvink (Paleobiology Seminar)
Geochemistry Ge 145. Sessions (Isotope-Ratio Mass Spectrometry)	Ge 116. Asimow, Jackson, Rossman (Analytical Techniques Lab) Ge 140 b. Tissot (Radiogenic Isotope Geochemistry) Ge/ESE 149. Adkins (Marine Geochemistry) Ge/ESE 154. Adkins (Readings in Paleoclimate) Ge 218. Eiler (Stable Isotopes Seminar)	Ge/ESE 140 c. Sessions (Stable Isotopic Biogeochemistry) ESE/Ge 142. Adkins (Aquatic Chemistry of Natural Waters) Ge 217. Farley (Radiogenic Isotopes Seminar) Ge 219. Tissot (Non-traditional Isotopes Seminar)
Geology Ge 114 a. Rossman (Mineralogy) Ge 121 a. Lamb (Advanced Field Geology) Ge 136 a. Kirschvink (Regional Field Geology of the Southwestern United States) Ge 212. Asimow (Thermodynamics of Geological Systems)	Ge 106. Avouac (Introduction to Structural Geology) Ge 115 a. Stolper (Petrology and Petrography: Igneous Petrology) Ge 121 b. Stock (Advanced Field Geology) Ge 123. Bucholz (Continental Crust Seminar) Ge 126. Lamb (Topics in Earth Surface Processes) Ge 136 b. Kirschvink (Regional Field Geology of the Southwestern United States) Ge 277. Avouac (Active Tectonics Seminar)	Ge 112. Grotzinger (Sedimentology and Stratigraphy) Ge 115 b. Eiler (Petrology and Petrography: Metamorphic Petrology) Ge 119. Bucholz (Geology of the American Southwest) Ge 120 a. Bucholz (Introduction to Field Geology) Ge 121 c. Grotzinger (Advanced Field Geology) Ge 122 c. Stock (Field Geology Seminar) Ge 136 c. Kirschvink (Regional Field Geology of the Southwestern United States) Ge 177. Avouac (Active Tectonics)
Geophysics Ae/Ge/ME 160 a. Rosakis (Continuum Mechanics of Fluids and Solids), Ge 161. Stock (Plate Tectonics) Ge 165. Clayton (Geophysical Data Analysis and Seismic Imaging)	Ge 111 a. Clayton, Simons (Applied Geophysics Seminar) Ge 162. Zhan (Seismology) Ge 164. Jackson (Mineral Physics) Ge 167. Simons (Tectonic Geodesy) Ge 271. Ross (Dynamics of Seismicity)	Ge 111 b. Clayton, Simons (Applied Geophysics Field Course) Ge 163. Gurnis (Geodynamics) Ge 261. Zhan (Advanced Seismology) Ge 264. Ross (Machine Learning in Geophysics) ME/Ge/Ae 266 a. Lapusta (Dynamic Fracture and Frictional Faulting)
Planetary Science Ay/Ge 107. de Kleer, Hillenbrand (Introduction to Astronomical Observation) Ge/Ch 128. Blake (Cosmochemistry) Ge/Ay 133. Batygin (The Formation and Evolution of Planetary Systems)	Ge/Ay 117. Knutson (Bayesian Statistics and Data Analysis) Ge/Ay 137. Batygin (Planetary Physics) Ge/Ay 159. Yung (Astrobiology)	Ge 131. Stevenson (Planetary Structure and Evolution) Ge/ESE 150. Knutson (Planetary Atmospheres) Ge 151. de Kleer (Planetary Surfaces)
Environmental Science and Engineering ESE 101. Schneider (Earth's Atmosphere) ESE 102. Thompson (Earth's Oceans) ESE 104. Staff (Current Problems in ESE) ESE/Bi 166. Leadbetter (Microbial Physiology)	ESE 103. Staff (Earth's Biogeochemical Cycles) ESE 130. Callies (Introduction to Atmosphere and Ocean Dynamics) ESE/Ch 176. Hoffmann (Environmental Physical Organic Chemistry Part I) ESE/ME/EST/EC/ChE/EE 179. Wennberg (Climate Change Impacts, Mitigation and Adaptation)	ESE 1. Wennberg (Earth's Climate) ESE 131. Callies (Ocean Dynamics) ESE 134. Schneider (Cloud and Boundary Layer Dynamics) ESE 137. Thompson (Polar Oceanography) ESE 144. Teixeira, Staff (Climate from Space) ESE/Ge/Ch 171. Seinfeld, Wennberg (Atmospheric Chemistry I) ESE/Ch 177. Hoffmann (Environmental Physical Organic Chemistry Part II)

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Special Courses

FS/Ge 16. Stock (Freshman Seminar: Earthquakes)

FS/ESE/Ge 18. Leadbetter (The Microbial World - The Unseen in Plain Sight)

Ge 192. Chris Paola, visiting professor (Special Topics in Geosciences: The Sand Clock: interweaving time and stratigraphy)

Ge 193. Howard Zebker, visiting professor (Special Topics in Geophysics: Imaging radar and applications)

Ge/ESE 298. Avouac, Bucholz (Mentoring and Outreach for GO-Outdoors)

Summer

Ge 120 b. Bucholz (Summer Field Camp)