

Course Schedule AY2022-2023

Division of Geological and Planetary Sciences

Fall 2022

Winter 2023

Spring 2023

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. Knutson (Frontiers in Geological and Planetary Sciences)
Ge 11 b. Fischer, Kirschvink (Earth and the Biosphere)
Ge 11 d. Clayton, Gurnis (Introduction to 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. Ehlmann (Planetary Sciences)
Ge/Ay 103. Ehlmann (Introduction to the Solar System)
Ge/EE/ESE 157 c. Ehlmann (Remote Sensing for Environmental and Geological Applications)

Geobiology

Ge/Bi/ESE 248. Orphan (Environmental Justice)

ESE/Bi 168. Newman (Microbial Metabolic Diversity)
Ge/ESE/Bi 178. Orphan (Microbial Ecology)

Ge/Bi 244. Kirschvink (Paleobiology Seminar)

Geochemistry

Ge 141. Tissot (Isotope Cosmochemistry)

Ge 116. Asimow, Ehlmann, Jackson (Analytical Techniques Lab)
Ge 140 a. Eiler (Introduction to Stable Isotope Geochemistry)
Ge/ESE 154. Adkins (Readings in Paleoclimate)
Ge/ESE 155. Adkins (Paleoceanography)

Ge 115 c. Staff (Petrography Laboratory)
Ge/Ch 127. Burnett (Nuclear Chemistry)
Ge/ESE 143. Sessions (Organic Geochemistry)
Ge 214. Staff (Spectroscopy of Minerals)
Ge 219. Tissot (Non-traditional Isotopes Seminar)

Geology

Ge 114. Rossman (Mineralogy)
Ge 121 a. Avouac (Advanced Field Geology)
Ge 125. Lamb (Geomorphology)
Ge 215. Asimow (Topics in Advanced Petrology)
Ge 136 a. Kirschvink (Regional Field Geology of the Southwestern United States)

Ge 106. Avouac (Introduction to Structural Geology)
Ge 121 b. Kirschvink (Advanced Field Geology)
Ge 122 b. Stock (Field Geology Seminar)
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 120 a. Bucholz (Introduction to Field Geology)
Ge 121 c. Wernicke (Advanced Field Geology)
Ge 136 c. Kirschvink (Regional Field Geology of the Southwestern United States)
Ge 270. Wernicke (Continental 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 (Tectonics Geodesy)
ME/Ge/Ae 266a. Lapusta (Fracture and Frictional Faulting)
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 266b. Lapusta (Fracture and Frictional Faulting)

Planetary Science

Ge/Ay 133. Batygin (The Formation, Evolution, and Detection of Planetary Systems)
Ge 151. de Kleer (Fundamentals of Planetary Surfaces)

Ge/Ay 117. Knutson (Statistics and Data Analysis)
Ge/Ay 132. Blake (Atomic and Molecular Processes in Astronomy and Planetary Sciences)
Ge/Ay 137. Batygin (Planetary Physics)
Ge/Ay 159. Yung (Astrobiology)

Ay/Ge 107. de Kleer, Hillenbrand (Introduction to Astronomical Observation)
Ge 131. Stevenson (Planetary Structure and Evolution)
Ge/ESE 150. Knutson (Planetary Atmospheres)

Environmental Science and Engineering

ESE 101. Schneider (Earth's Atmosphere)
ESE 103. Frankenberg (Earth's Biogeochemical Cycles)
ESE 104. Frankenberg (Current Problems in ESE)
ESE/Bi 166. Leadbetter (Microbial Physiology)

ESE 102. Callies (Earth's Oceans)
ESE 156. Frankenberg (Remote Sensing of the Atmosphere and Biosphere)
ESE/Ge/Ch 171. Seinfeld, Wennberg (Atmospheric Chemistry I)
ESE/Ch 176. Hoffmann (Environmental Physical Organic Chemistry Part I)

ESE 1. Wennberg (Earth's Climate)
ESE 130. Callies (Introduction to Atmosphere and Ocean Dynamics)
ESE 136. Schneider, Novak (Climate Models)
ESE/Ge 142. Staff (Aquatic Chemistry of Natural Waters)
ESE/Ch 177. Hoffmann (Environmental Physical Organic Chemistry Part II)

Special Courses

FS/Ge 16. Stock (First-year Seminar: Earthquakes) undergrads only
FS/ESE/Ge 18. Leadbetter (First-year Seminar: The Unseen Microbial World in Plain Sight) undergrads only
Ge/ESE 298. Staff (Mentoring and Outreach for GO-Outdoors)

Summer

Ge 120 b. Bucholz (Summer Field Camp)