

Course Schedule AY2020-21

Division of Geological and Planetary Sciences

Fall 2020	Winter 2021	Spring 2021
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 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/Ay 103. Ingersoll (Introduction to the Solar System) Ge/EE/ESE 157 c. Ehlmann (Remote Sensing for Environmental and Geological Applications)
Geobiology Ge/Bi/ESE 246. Orphan (Geomicrobiology Seminar)	ESE/Bi 168. Newman (Microbial Metabolic Diversity) Ge/ESE/Bi 178. Orphan (Microbial Ecology)	
Geochemistry Ge 141. Tissot (Isotope Cosmochemistry)	Ge 116. Asimow, Jackson, Rossman (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/ESE 143. Sessions (Organic Geochemistry) Ge 214. Rossman (Spectroscopy of Minerals) Ge/Ch 127. Burnett (Nuclear Chemistry) Ge 219. Tissot (Non-traditional Isotopes Seminar)
Geology Ge 114 a. Rossman (Mineralogy) Ge 114 b. Rossman (Mineralogy Lab) Ge 121 a. Avouac (Advanced Field Geology) Ge 125. Lamb (Geomorphology) Ge 215. Asimow (Topics in Advanced Petrology) Ge 136 b. Kirschvink (Regional Field Geology of the Southwestern United States)	Ge 106. Avouac (Introduction to Structural Geology) Ge 115 b. Eiler (Metamorphic Petrology) 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. Stock (Advanced Field Geology) Ge 124 a. Kirschvink (Paleomagnetism and Magnetostratigraphy) Ge 124 b. Kirschvink (Paleomagnetism and Magnetostratigraphy) Ge 136 c. Kirschvink (Regional Field Geology of the Southwestern United States) Ge/Bi 244. Kirschvink (Paleobiology Seminar) Ge 270. Wernicke (Continental Tectonics)
Geophysics Ge 161. Stock (Plate Tectonics) Ae/Ge/ME 160 a. Lapusta (Continuum Mechanics of Fluids and Solids)	Ge 111 a. Clayton, Simons (Applied Geophysics Seminar) Ge 162. Zhan (Seismology) Ge 164. Jackson (Mineral Physics) ME/CE/Ge 174. Lapusta (Mechanics of Rocks)	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)
Planetary Science Ay/Ge 107. de Kleer, Hillenbrand (Introduction to Astronomical Observation) Ge/Ay 132. Blake (Atomic and Molecular Processes in Astronomy and Planetary Sciences) Ge 151. Ehlmann, de Kleer (Fundamentals of Planetary Surfaces)	Ge/Ay 117. Knutson (Statistics and Data Analysis) Ge/Ay 133. Batygin (The Formation, Evolution, and Detection of Planetary Systems) Ge/Ay 137. Batygin (Planetary Physics) Ge/Ay 159. Yung (Astrobiology)	Ge 131. Stevenson (Planetary Structure and Evolution) Ge/ESE 150. Knutson (Planetary Atmospheres)
Environmental Science and Engineering ESE 101. Schneider (Earth's Atmosphere) ESE 102. Thompson (Earth's Oceans) ESE 104. Frankenberg (Current Problems in ESE) ESE 156. Frankenberg (Remote Sensing of the Atmosphere and Biosphere) ESE/Bi 166. Leadbetter (Microbial Physiology) ESE/Ge/Ch 172. Seinfeld, Wennberg (Atmospheric Chemistry II)	ESE 103. Frankenberg (Earth's Biogeochemical Cycles) ESE 130. Callies (Introduction to Atmosphere and Ocean Dynamics) ESE/ChE 158. Flagan, Seinfeld (Aerosol Physics and Chemistry) ESE/Ch 176. Hoffmann (Environmental Physical Organic Chemistry Part I)	ESE 1. Wennberg (Earth's Climate) ESE 131. Callies (Ocean Dynamics) ESE 132. Schneider (Tropical Atmosphere Dynamics) ESE/Ge 142. Adkins (Aquatic Chemistry of Natural Waters) ESE 144. Teixeira (Climate from Space) ESE/Ge/Ch 171. Seinfeld, Wennberg (Atmospheric Chemistry I) ESE/Ch 177. Hoffmann (Environmental Physical Organic Chemistry Part II)
Special Courses FS/Ge 16. Stock (Freshman Seminar: Earthquakes) FS/ESE/Ge 18. Leadbetter (Freshman Seminar: The Unseen Microbial World in Plain Sight) Ge 194. Brown (Special Topics in Planetary Sciences: Europa Seminar)		Summer Ge 120 b. Bucholz (Summer Field Camp)