

Course Schedule AY2024-2025
Division of Geological and Planetary Sciences

Fall 2024	Winter 2025	Spring 2025
Division		
Ge 11 a. Bucholz (Earth as a Planet) Ge 101. Bucholz (Introduction to Geology and Geochemistry) Ge 192. Venditti, visiting professor (Special Topics in the Geosciences) ESE/Ge 21. Sessions (Tutorial: Biogeochemistry of Carbon Sequestration) <i>undergrads only</i>	Ge/Ay 11 c. Brown (Introduction to Planetary Sciences) Ge 11 d. Gurnis (Introduction to Geophysics) Ge 102. Gurnis (Introduction to Geophysics) Ge/Ay 103. Brown (Introduction to the Solar System) Ge 109. Jackson (Oral Presentation, Geophysics option only) Ge 193. Barbot, visiting professor (Special Topics in Geophysics)	Ge 1. Asimow (Earth and Environment) Ge 11 b. Fischer/Kirschvink (Earth and the Biosphere) Ge 104. Fischer/Kirschvink (Introduction to Geobiology) Ge 109. Tissot (Oral Presentation, options: GB, GC, GE)
Geobiology		
Ge 197. Fischer (Special Topics in Geobiology: Oxygen) Ge/Bi/ESE 248. Orphan (Environmental Justice) Ge/Bi/ESE/CE 249. Tejada (Stable Isotopes: Ecological and Environmental Applications)	ESE/Bi 168. Newman (Microbial Metabolic Diversity) Ge/ESE/Bi 178. Orphan (Microbial Ecology)	
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 155. Adkins (Paleoceanography)	Ge 115 c. Instructor TBD (Petrography Laboratory) Ge/Ch 127. Burnett (Nuclear Chemistry) Ge/ESE 143. Sessions (Organic Geochemistry) Ge 214. Rossman (Spectroscopy of Minerals) Ge 219. Tissot (Non-traditional Isotopes Seminar)
Geology		
Ge 114 a. Rossman (Mineralogy) Ge 114 b. Rossman (Mineralogy Laboratory) 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. Bucholz (Advanced Field Geology) Ge 122 b. Stock (Field Geology 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. Tejada (Advanced Field Geology) Ge 136 c. Kirschvink (Regional Field Geology of the Southwestern United States)
Geophysics		
Ae/Ge/ME 160 a. Lapusta (Continuum Mechanics of Fluids and Solids) Ge 161. Stock (Plate Tectonics) Ge 166. Ross (Machine Learning in Geophysics) FS/Ge 016. Stock (First-year Undergrad Seminar: Earthquakes)	Ge 162. Zhan (Seismology) Ge 165. Ross (Geophysical Inverse Problems) Ae/Ge/ME 266 a. Lapusta (Fracture and Frictional Faulting)	Ge 163. Gurnis (Geodynamics) Ge 167. Simons (Tectonic Geodesy) Ge 261. Zhan (Advanced Seismology) Ae/Ge/ME 266 b. Lapusta (Fracture and Frictional Faulting)
Planetary Science		
Ge/Ay 133. Batygin (The Formation, Evolution, and Detection of Planetary Systems) FS/Ge 20. Brown (First-Year Undergrad Seminar: Life in the Universe)	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 151. de Kleer (Fundamentals of Planetary Surfaces) 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 102. Thompson (Earth's Oceans) ESE 138. Callies (Waves in Geophysical Fluids) ESE 156. Frankenberg (Remote Sensing of the Atmosphere and Biosphere) ESE/Bi 166. Leadbetter (Microbial Physiology) FS/ESE/Ge 018. Leadbetter (First-year Undergrad Seminar: The Unseen Microbial World in Plain Sight)	ESE 103. Frankenberg (Earth's Biogeochemical Cycles) ESE 104. Callies (Current Problems in ESE) ESE 130. Callies (Introduction to Atmosphere and Ocean Dynamics) ME/CE/Ge/ESE 146. Fu (Computational Methods for Flow in Porous Media) ESE/Ge/Ch 171. Wennberg (Atmospheric Chemistry I) ESE/Ch 176. Diallo (Environmental Physical Organic Chemistry) ESE/ME/EST/Ec/ChE/EE 179. Wennberg (Climate Change Impacts, Mitigation and Adaptation) ESE/Ge/Bi/ChE 184. Karthikeyan (Computational Tools for Decoding Microbial Ecosystems)	ESE 1. Wennberg (Earth's Climate) ESE 134. Schneider (Cloud and Boundary Layer Dynamics) ESE 137. Thompson (Polar Oceanography) ESE/Ge/Ch 142. Zakem (Aquatic Chemistry of Natural Waters)