The International Geobiology Course is an immersive, multidisciplinary summer course that explores the co-evolution of the Earth and its biosphere, with an emphasis on how microbial processes affect the environment and leave imprints in the rock record. Participants get a hands-on learning experience in cutting-edge geobiological techniques including molecular biology, microbiology, geochemistry, and sedimentology and work in research groups to solve real-world research questions.

Themes for this year’s course include:
1. Molecular biology and biogeochemistry of Mono Lake and its sediments.
2. Viruses and microbial biosignatures in hot springs.

The course is directed by Alex Sessions, Victoria Orphan, and Woody Fischer, and will remain in a format similar to pre-COVID years. It begins with a field trip up the eastern Sierra Nevada to visit hot springs, Pleistocene sediments, and Mono Lake, then across to the central valley to work on ancient seep outcrops. Ten days of lab rotations at Caltech will introduce students to cutting-edge analytical techniques, such as metagenomics, FISH-SIMS, biomarkers, and stable isotopes. We finish with ten days at the Wrigley Marine Science Center on Catalina Island where students pursue research projects based on data collected by the course.

The 2022 course is open to graduate students and postdocs at any level. For postdocs, preference will be given to those who earned PhD’s in other fields, and are seeking to enter the field of geobiology. The cost of the course is US$4000 which includes food and lodging; financial aid is available for those with demonstrated need.

For more information and on-line applications, please see [http://web.gps.caltech.edu/GBcourse](http://web.gps.caltech.edu/GBcourse) or contact Geobiology Course Administrator, Julie Lee, at: jlee@gps.caltech.edu, 626-395-6125.