

WI 2019-20

Ge 194: Special Topics in Planetary Sciences

6 units, pass-fail

“Volcanism across the Solar System” - Volcanism is one of the core processes that creates and shapes the surfaces and atmospheres of rocky & icy worlds throughout our Solar System (and beyond). This seminar-style course will cover volcanic processes across the Solar System, including: active volcanism on Earth, Io, and Venus; ancient volcanism on Mercury, the Moon and Mars; cryovolcanism on outer planet satellites and on dwarf planets; the role of volcanism and magma ocean phases in the early Solar System’s atmospheres and surfaces; and volcanic worlds beyond our Solar System.

The class will meet once a week, and each meeting will be split between background lecture and discussions of assigned texts including textbook chapters, review articles, and research papers.