OVERVIEW
The Master of Science in geology is a rigorous research thesis program with grounding in related course work. Research programs include environmental geology; geomorphology; water resources; environmental (bio)geochemistry; mineralogy; sedimentary, igneous and metamorphic environments; geochronology and structural geology; tectonics; and the evolution of orogen. Examples of specific faculty interests include geologic history and recent sedimentation in the Lake Champlain Basin; processes and chronology of glaciation; stable and cosmogenic isotopic studies; water quality and pollutant transport; crystal chemistry and crystallography; mineral structure analysis; molecular-scale environmental mineralogy; (bio)geochemical cycling in the critical zone; the tectonic evolution of continental margins and interiors; petrofabric and structural analysis of deformed rocks; partial melting and deep crustal processes; timing of deformation and rates of tectonic processes; and stratigraphy and sedimentary environments of lower Paleozoic sandstones and carbonates.

DEGREES
Geology M.S.

FACULTY
Klepeis, Keith Andrew; Professor, Department of Geography and Geosciences; PHD, University of Texas Austin
Lini, Andrea; Associate Professor, Department of Geography and Geosciences; PHD, ETH-Zurich
Perdrial, Julia Nathalie; Assistant Professor, Department of Geography and Geosciences; PHD, Université Louis-Pasteur, Strasbourg, France
Perdrial, Nicolas; Research Assistant Professor, Department of Geography and Geosciences; PHD, Université Louis-Pasteur, Strasbourg, France
Schroth, Andrew W.; Research Associate Professor, Department of Geography and Geosciences; PHD, Dartmouth College
Webb, Laura E.; Associate Professor, Department of Geography and Geosciences; PHD, Stanford University

Courses
GEOL 5405. Gr Geochem of Natural Waters. 3 Credits.
Basic concepts of chemical equilibria applied to natural waters, including thermodynamics, pH, oxidation-reduction, weathering, and solution equilibria. Prerequisite: Graduate student.

GEOL 5990. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

GEOL 6391. Master's Thesis Research. 1-9 Credits.
Research for the Master's Thesis.