GEOS 601 Polar Regions of the Earth: Science, Society, and Discovery
Credits 3. 3 Lecture Hours.
Disciplines and topics that define modern polar science in the north and south; includes history of the Polar Regions, polar geosciences, major polar scientific projects, and special topics; participate as individuals and teams in education, outreach and science projects.
Prerequisite: Graduate classification.

GEOS 642/GEOG 642 Past Climates
Credits 3. 3 Lecture Hours.
Terrestrial and marine proxy records of past climate variability, including tree rings, coral, and sediments; past climate change events such as the Little Ice Age and Medieval Warm Period; greenhouse gases and global temperature; insight into the nature of climate change and challenges humankind faces in the next few centuries.
Prerequisite: Graduate Classification.
Cross Listing: GEOG 642/GEOS 642.

GEOS 676 Capstone Experience
Credits 6. 6 Lecture Hours.
Integration of knowledge and skills gained through other courses and experiences in the Master of Geoscience program, application of conceptual geoscience knowledge to solve applied problems in the discipline; development of teamwork, communication and professional skills through interactions with industry professionals.
Prerequisites: Enrollment in Master of Geoscience.

GEOS 677 Science, Technology, Engineering and Mathematics (STEM)
Teaching Professional Development
Credit 1. 1 Lecture Hour.
Center for Teaching Excellence (CTE) consultation and faculty mentoring in STEM teaching; course topic and syllabus design; learning outcomes and assessment; teaching methodology; reflection on teaching philosophy; reflection on teaching as research. Must be taken on satisfactory/unsatisfactory basis.
Prerequisites: Graduate classification and approval of instructor.
Cross Listing: ENGR 677 and SCEN 677.

GEOS 689 Special Topics in...
Credits 1 to 4. 1 to 4 Lecture Hours.
Selected topics in an identified area of geosciences. May be repeated for credit.
Prerequisites: Graduate classification and approval of instructor.