

Geology (GEOL)

GEOL 5101 Research Problems I 1 SCH (0-1)

Individual problems assigned, defined and supervised by a graduate faculty member in the department. Provides experience in individual project design, execution and reporting of research of professional caliber. The Research Problems I, II, and III courses may be repeated in any combination for a total maximum of 9 semester credit hours applied toward the graduate degree.

GEOL 5201 Research Problems II 2 SCH (0-2)

Individual problems assigned, defined and supervised by a graduate faculty member in the department. Provides experience in individual project design, execution and reporting of research of professional caliber. The Research Problems I, II and III courses may be repeated in any combination for a total maximum of 9 semester credit hours applied towards the graduate degree.

GEOL 5303 Research Problems III 3 SCH (0-3)

Individual problems assigned, defined and supervised by a graduate faculty member in the department. Provides experience in individual project design, execution and reporting of research of professional caliber. The Research Problems I, II and III courses may be repeated in any combination for a total maximum of 9 semester credit hours applied towards the graduate degree

GEOL 5305 Graduate Research Project 3 SCH (0-0-3)

Designed for project option students and requires completion of a research project. Prerequisite: departmental approval. May be repeated for a maximum of 6 semesters hours.

GEOL 5306 Thesis 3 SCH (3)

Designed for thesis option students. The course requires completion of thesis research. Prerequisite: departmental approval. May be repeated for maximum of 6 semester hours.

GEOL 5310 Advanced Topics in Geology 1-3 SCH (1-3)

Intensive study at a graduate level of selected advanced topics. May be repeated for credit under different topics.

GEOL 5312 Geographic Info Systems 3 SCH (3-0)

Principles and practice of geographic information systems (GIS) using vector-based GIS as the primary software package. Students will demonstrate the use of GIS through individual class projects oriented toward their area of interest.

GEOL 5313 Advanced GIS 3 SCH (2-3)

Research applications of advanced techniques of Geographic Information Systems. Vector-and raster-based GIS modeling: terrain modeling, hydrological modeling, 3-D modeling: hands-on research topics. GIS programming for problem solving in students research applications. Prerequisite: GEOL 5312 or permission of instructor.

GEOL 5352 Remote Sensing 3 SCH (2-3)

Principles and practice of remote sensing involving analysis and interpretation of aerial photos and digital images. Students will demonstrate the use of remote-sensed through individual class projects oriented toward their area of interest.