

# GEOGRAPHY (GEOG)

---

## **GEOG105 Cultural Geography** 3 credits (3 lec hrs/wk)

This course examines the nexus of human and environmental interaction. We will consider issues such as the origins of domestication of animals and plants for food, economic development and underdevelopment, environmental racism, and the geographic origins of cultural differences. This course may be taken 1 time for credit.

Course classification: LDC

## **GEOG180 Internship: Geography** 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent

Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.

This course may be taken 12 times for credit.

Course classification: LDC

## **GEOG209 Physical Geography Weather/Climate** 4 credits (4 lec hrs/wk)

Examines the processes of the atmosphere, the distribution and character of climate types, climate change, and humankind as a modifier of climate.

This course may be taken 1 time for credit.

Course classification: LDC

## **GEOG265 Intro to Geographical Info Systems** 4 credits (4 lec hrs/wk)

An introduction to the appropriate use and potential applications of geographic information systems (GIS) and related technologies (GPS and remote sensing) in problem-solving for a variety of industries. Students are presented with lectures and exercises that cover a wide range of GIS and GIS-related topics and issues, including spatial database creation, structure, analysis and modeling. Class meetings include lectures and hands-on GIS exercises in a computer lab. Students are required to complete weekly lab assignments and a final project.

This course may be taken 1 time for credit.

Course classification: LDC

## **GEOG270 Adv Topics in Geog Info Systems** 3 credits (2 lec, 3 lab hrs/wk)

Prerequisite(s): (GEOG265)

An advanced course in geographic information science. This class builds upon techniques learned in GEOG265 Introduction to Geographic Information Systems (GIS) by exposing students to more advanced methods in developing and utilizing GIS data.

This course may be taken 1 time for credit.

Course classification: LDC

## **GEOG275 Fundamentals of Cartography** 3 credits (2 lec, 3 lab hrs/wk)

Prerequisite(s): (GEOG265)

A general introduction to cartography as an art and a science. The course teaches fundamental principles of map design and construction. Students will become familiar with the cartographic process, especially as they apply basic mapping concepts such as scale, typography, map projections, generalization, symbols, color schemes, and data visualization. Students will use cartographic tools available in Esri software.

This course may be taken 1 time for credit.

Course classification: LDC

## **GEOG277 GIS Capstone** 1 credit

Prerequisite(s): (GEOG275)

An independent GIS project carried out in concert with industry professionals.

This course may be taken 1 time for credit.

Course classification: LDC

## **GEOG280 CWE: Geography** 1-12 credits (3 lab hrs/wk/cr)

Prerequisite(s): Instructor consent

Practical worksite exposure to applied science, which provides students an opportunity to explore potential career paths in science while gaining practical experience in applying classroom science theory.

This course may be taken 12 times for credit.

Course classification: LDC