FALL 2022

GEOG 456 Geovisualizing change **Instructor**: Dr. Arce-Nazario **Email**: jarce@live.unc.edu **Time**: TR 11:00-12:15

Office: 326 Carolina Hall

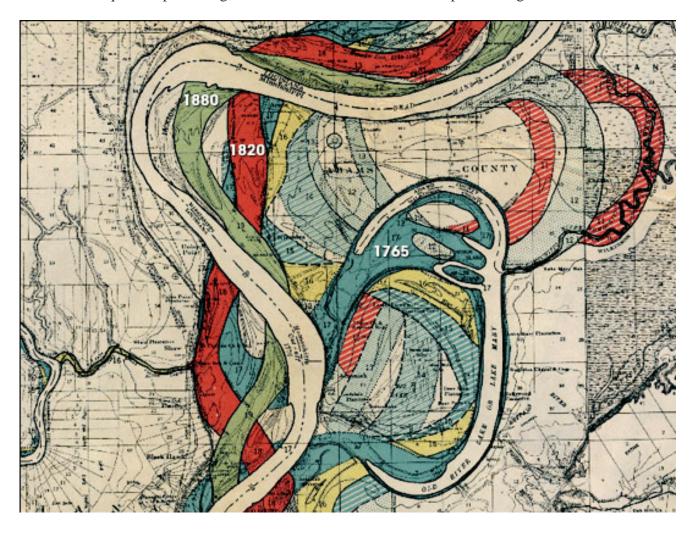
Phone: (919) 445-4844 **Location**: CH 322

Prerequisite: GEO370, or similar course, or experiences with GIS software.

Overview: This course will investigate the challenges, the tools and techniques, and the important applications of visualizing and analyzing geographic data that is temporally dynamic. We will tackle the technical challenges in obtaining, analyzing, and visualizing dynamic processes in space though maps, and discuss the consequences of our choices in how to represent and present these processes. By the conclusion of this course, students will have produced original geovisualizations of dynamic data related to their field of interest.

Objectives:

- proficiency identifying paradigms of analysis for spatial-temporal processes
- understanding of how of GIS and temporal GIS models enable or hinder analysis
- proficiency in obtaining and cleaning historical data
- proficiency in creating and interpreting "change metrics"
- techniques for producing interactive and non-interactive maps of change



Map of Mississippi River meanders, Army Corps of Engineers, 1944 (gislounge.com/time-and-gis)\