



GEOG 4095/5095: Deploying GIS functionality on the Web **Spring 2021 Mon and Wed 11:00AM-12:15 PM**

COURSE DESCRIPTION: Experts and industry leaders predict that Cloud-based spatial information systems (Geographic Information Systems deployed on the World Wide Web) and the new Web Services architecture may eventually become the dominant format for accessing GIS functionality and data. This is an upper-division/graduate course on understanding and applying the concepts and core technologies that allow the deployment of GIS functionality on the World Wide Web. The course aims to balance the understanding of concepts and principles with the acquisition of practical skills to allow students to create web-GIS applications. The theory and concepts are demonstrated and/or practiced using the latest GIS and web technologies, both proprietary and Open Source Software.

COURSE GOALS:

- ✓ Provide an overview and basic understanding of the most important web-GIS principles and technologies that will allow you to effectively contribute to IT interdisciplinary teams designing and implementing web-GIS applications.
- ✓ Provide a “road map” of the area of web-GIS that will allow you to decide what to explore further to take your knowledge and skills to your desired level.
- ✓ Allow you to create basic web-GIS applications.

Prerequisites: GEOG4080: Introduction to GIS or instructor permission. No previous knowledge of Web technologies or programming is assumed. However, it is recommended that students take courses such as, programming in a high-level language (e.g. Python), and a class where basic web and HTML concepts are covered, before taking this course. **FOR MORE INFORMATION:** Contact Dr. Rafael Moreno at Rafael.Moreno@ucdenver.edu