

Advanced GIS: Productivity, Geoprocessing and Analysis

Online

Increase your understanding of available tools in ArcGIS for many types of spatial analyses, and understand how to choose the appropriate set of tools for different situations. Gain experience with a variety of geoprocessing tools in ArcGIS, discover better work routines and learn how to improve your workflow using ModelBuilder. Review important topics such as projections and editing, and explore many overlooked but useful tools that make life easier and save time and effort, including many advanced editing tools and map topology. You will also learn how to create map books using data-driven pages and ModelBuilder effectively for streamlining analyses and creating an easily modifiable interface for spatial analysis steps that are repeated many times.

Academic Units

2

Section Number

254GIS102

Instruction Method

Online class

Section Notes

Access to your course in Canvas will be available 7 days before the course start date.

Enrollment Policies

Drop requests (withdraw with a refund) will be approved, less a \$30 processing fee, if the request is received before the refund deadline. Click [here](#) to view complete enrollment policy information including details on withdrawals and transfers.

Refund Deadline: 4/27/2026. Refunds and/or enrollment transfers will not be approved after this date.

Students enrolling after the first day of class are expected to reach out to their instructors to make sure they receive all content and are on track with the course.

Prerequisites

Recommended: It is strongly recommended that students have prior training in ESRI (ArcGIS) or similar software. Completion of *Introduction to Geographic Information Systems* is sufficient for success in this course.

Technical Requirements

To ensure your success in this course, please review our technical requirements page at [online](#)



Discounts

Info Session Discount

Attendees of UC Davis Continuing and Professional Education Information Sessions may be eligible for \$100 discount on a class by entering the Coupon Code provided at the Information Session. Contact UC Davis Continuing and Professional Education Student Services office, at (800) 752-0881, if you have questions about this discount.

Schedule



May 4th, 2026 to May 8th, 2026, 12:00am to 12:00am

Mon., May 4th, 2026, 9:00am to 12:00pm

Wed., May 6th, 2026, 9:00am to 12:00pm

Thur., May 7th, 2026, 9:00am to 12:00pm

Instructors



Karen Beardsley

Karen Beardsley, Ph.D., Dr. Karen Beardsley has worked at UC Davis since 1994 as a researcher and geographic information system (GIS) specialist. She currently serves as the Director of Global Professional Programs with the Global Affairs Office at UC Davis, after working for over 20 years with the Information Center for the Environment in the Department of Environmental Science and Policy. Her interests include applications of GIS and other geospatial technologies to biodiversity protection and land use planning, as well as developing international connections and opportunities for UC Davis students, scholars and faculty around the world. In 2015-16, Dr. Beardsley worked as a Fulbright Professor at the Royal Thimphu College in Bhutan, where she taught college students about geographic information science and technology, and arranged and delivered short GIS courses for Bhutanese government staff. Ms. Beardsley has taught GIS with CPE since 1996, when she helped develop their first GIS course offering.

