

# Going Places with Spatial Analysis

## Course Syllabus

### SECTION 1 Geography Matters

This lesson introduces spatial analysis and all the different ways that location affects our lives. It identifies the tools and data used to explore spatial questions and problems.

### SECTION 2 Understanding and Comparing Places

Different locations host different physical and cultural features and populations. Locations can be described and summarized with attributes and can be compared to one another.

### SECTION 3 Determining How Places are Related

How you arrange your data affects how you understand locations. Choosing the appropriate scale and combining meaningful data sets can help reveal relationships.

### SECTION 4 Finding the Best Locations and Paths

Topology defines spatial relationships between features. Querying these relationships along with specific attributes helps find optimal locations for activities, structures and routes.

### SECTION 5 Detecting and Quantifying Patterns

Information on the distribution patterns of a phenomenon can guide policies that encourage positive activities and deter negative ones.

### SECTION 6 Making Predictions

Models help predict the situation in locations where data is not available and help analysts understand the underlying causes of patterns.





# Esri® MOOC TIPS FOR SUCCESS

Esri massive open online courses (MOOCs) are engaging, educational—and most of all, fun. For the best experience:

# 1

## CHECK YOUR TECHNICAL SETUP

**Esri software is provided for your use during the course.**

- ▶ Carefully read the Software section on the course catalog page to confirm you have any non-Esri software required and that your system meets all hardware requirements.
- ▶ Use a desktop or laptop computer.
- ▶ Make sure your firewall and browser settings allow you to view embedded video files.

# 2

## STAY ON TRACK IN COURSE EXERCISES

**To easily move back and forth between step-by-step exercise instructions and Esri software:**

- ▶ Print the instructions, use two monitors, or view the instructions on a separate device.

# 3

## MANAGE YOUR TIME

**To earn a certificate of completion, complete all course content by the course end date.**

- ▶ Plan to spend at least three hours per week on each section.
- ▶ Add the course end date to your personal calendar and set reminders to study.

# 4

## BE AN ACTIVE LEARNER

**Practice independent learning and engage with your peers.**

- ▶ Complete each section during its opening week and participate in forum discussions.
- ▶ Read weekly announcements for course updates and interesting student contributions.
- ▶ When you have a question or issue, follow the steps on the course Help page.

