Overview
This guide is an aid for educators who want to use Esri web-based offerings as part of their own college or university courses. Listed offerings are available as of late July 2017.

Full course descriptions for the recommended training offerings outlined below can be found at the links provided. All offerings listed are web courses unless noted otherwise. The complete Esri Training course catalog can be found here: www.esri.com/coursecatalog. The information provided in this guide is subject to change without notice. Please contact Esri Training at GIStraining@esri.com or (800) 447-9778, ext. 5757 with questions about courses.

Your institution may have access to Esri e-Learning resources as part of an Esri software license. Access to all self-paced e-Learning (web courses, training seminars, and more) is included with most software licenses. To determine if this applies to you, contact your Esri software license administrator or educationinfo@esri.com.

ArcGIS® fundamentals
The following e-Learning offerings cover fundamental skills and concepts about ArcGIS Online, ArcGIS Desktop, and GIS in general.

ArcGIS Online
These courses introduce GIS and ArcGIS Online to new users. All courses in this section exclusively use ArcGIS Online. (Courses that present workflows combining ArcGIS Desktop and ArcGIS Online are listed in the ArcGIS Desktop sections.)
- **Exploring GIS Maps** Introduces online maps as models of the world.
- **Getting Information from a GIS Map** Introduces GIS data concepts and geographic inquiry.
- **Using GIS to Solve Problems** Introduces visual and geospatial analysis.
- **Telling Stories with GIS Maps** Introduces map-based storytelling and the workflow for configuring a web app.

These tutorials develop a foundation of ArcGIS Online skills through project scenarios and lessons. They use a dedicated ArcGIS Online organizational account.
- **Get Started with ArcGIS Online** (Tutorial) Builds foundational skills through a series of five lessons.
- **Fight Child Poverty with Demographic Analysis** Introduces skills to enrich layers with demographic data, styling layers, and configuring a web app.
- **Analyze Volcano Shelter Access in Hawaii** Employs geoprocessing and analytical tools to examine a scenario.
- **Many other self-paced tutorials for ArcGIS Online are available. These can be related to a wide range of academic disciplines. See Learn ArcGIS tutorials for ArcGIS Online.**
**ArcGIS Desktop using ArcGIS Pro**

These web course offerings introduce fundamental concepts and workflows for the ArcGIS Pro application.

- **Getting Started with ArcGIS Pro** Introduces the ribbon-style interface, project-based organization, and key capabilities of ArcGIS Pro.
- **Displaying Data in ArcGIS Pro** Introduces ArcGIS Pro tools for symbology.
- **3D Visualization Using ArcGIS Pro** Introduces the ArcGIS Pro 3D environment and explains how to create and share realistic 3D scenes.
- **Managing Map Layers in ArcGIS Pro** Introduces basic layer property settings.
- **Querying Data Using ArcGIS Pro** Teaches the building blocks of query expression and how to select features that meet one or more attribute criteria.
- **Integrating Data in ArcGIS Pro** Teaches GIS data concepts and adding data to a geodatabase.
- **Preparing to Perform Analysis Using ArcGIS Pro** Presents using ArcGIS geoprocessing tools that support spatial analysis projects. Discusses how to choose the appropriate tool, and works through a short project.
- **Automating Workflows Using ArcGIS Pro Tasks** Teaches how to create and share ArcGIS Pro tasks to increase productivity.
- **Sharing Maps and Layers with ArcGIS Pro** Teaches best practices for sharing projects, maps, layers, tools, and other items using a portal, such as ArcGIS Online, so that they can be used with mobile devices, web and desktop applications.

These tutorials also provide a starting point for learning ArcGIS Pro.

- **Get Started with ArcGIS Pro** (Tutorial) Uses a scenario to introduce creating maps and 3D scenes, editing features, and raster analysis.
- **Actionable Intelligence** (Tutorial) Includes examining and editing, and symbolizing attribute data, and performing spatial and temporal analysis.

**ArcGIS Desktop using ArcMap™**

These courses use ArcGIS Desktop (ArcMap); some also use ArcGIS Online, and may require an ArcGIS Online organizational account. *(Note: This series most closely replaces the course, Learning ArcGIS Desktop (v. 10.0)).*

- **Getting Started with GIS** Introduces the basic components of a GIS and fundamental concepts that underlie the use of a GIS.
- **Referencing Data to Real-World Locations Using ArcGIS** Introduces fundamental concepts of coordinate systems and explains why understanding them is essential to creating accurate GIS maps and reliable analysis results.
- **Finding Geographic Data in ArcGIS** Teaches how to define data needs, evaluate whether a given dataset matches those needs. Explores common geographic data formats and sources.
- **Solving Spatial Problems Using ArcGIS** Introduces a standard five-step approach to geographic problem-solving. Presents common types of spatial analysis to create actionable information.
- **Planning a Cartography Project** Introduces a standard five-step workflow for creating high-quality maps.
- **Map Design Fundamentals** Presents cartographic design principles such as layout composition, color, symbology, and text.
- **Getting Started with the Geodatabase** Introduces geodatabase components and presents techniques for efficiently organizing and adding both vector and raster data to a geodatabase.
- **Creating and Sharing GIS Content Using ArcGIS Online** Shows how to publish data and map layers directly to ArcGIS Online as services, then use those services to quickly build a web map and web application.
- **Python for Everyone** Introduces basic Python concepts and the Python scripting environment in ArcGIS.
Mapping and visualization
These training offerings provide options for extending learning about mapping and visualization.

ArcGIS Online
- Creating Web Applications Using Templates and Web AppBuilder for ArcGIS Teaches how to create interactive, cross-platform web applications that feature maps and geospatial content.
- Oversee Snowplows in Real Time (Tutorial)
- Tell the Story of Irish Public History (Tutorial)
- Oso Mudslide - Before and After (Tutorial)
- Do-It- Yourself Geo Apps (MOOC, September 6 - October 3, 2017, 4 weeks) Shows how to build valuable, geo-enabled apps on the ArcGIS Platform.

ArcGIS Desktop using ArcGIS Pro
- Cartographic Creations in ArcGIS Pro (Tutorial)
- Creating and Sharing Animation in ArcGIS Pro Shows how to animate and produce ready-to-share videos of your work.
- Creating Vector Tiles in ArcGIS Pro Explains why and how to create vector tiles for fast and compelling web apps.
- Cartography. (MOOC, November 1 - December 12, 2017, 6 weeks) Experienced cartographers teach their craft, including cartographic design, messaging, and ArcGIS skills.

ArcGIS Desktop using ArcMap
- Working with Annotation in ArcGIS Covers different types of ArcGIS annotation and techniques to create and update annotation to make maps more usable.
- Mapping the Public Garden (Tutorial)
- Homeless in the Badlands (Tutorial)

Spatial analytics
These training offerings provide options for extending learning about GIS analysis and modeling.

ArcGIS Online
- The Location Advantage (MOOC, November 1- December 12, 2017, 6 weeks) Explores how location analytics can be used in business. Uses ArcGIS Online and Business Analyst Online.

ArcGIS Desktop using ArcGIS Pro
- Distance Analysis Using ArcGIS Pro Create raster surfaces for distance and path analysis.
- Terrain Analysis Using ArcGIS Pro Uses ArcGIS Pro and ArcGIS Spatial Analyst tools to derive new raster data from an elevation raster for a variety of applications.
- Performing Viewshed Analysis in ArcGIS Pro Introduces the Viewshed tool and how to adjust the tool for an analysis.
- Creating Optimized Routes Using ArcGIS Pro Uses ArcGIS Network Analyst and a network dataset to create routes that incorporate distance, time, stops, and barriers.
- Generating Service Areas Using ArcGIS Pro Uses ArcGIS Network Analyst and existing network data to create areas within a certain distance or travel time of a facility.
- Introduction to Regression Analysis Using ArcGIS Pro Introduces regression analysis concepts and teaches how to create a properly specified regression model.
- Building Geoprocessing Models Using ArcGIS Pro Introduces geoprocessing models and the steps required to create, validate, and run models that automate ArcGIS analysis workflows.
- Using the R-ArcGIS Bridge Shows how to load spatial data into an R workspace to perform statistical analysis using the R-ArcGIS bridge.
- Analyze Crime Using Statistics and the R-ArcGIS Bridge (Tutorial)
ArcGIS Desktop using ArcMap
- Creating Prediction Surfaces in ArcGIS Teaches how to interpolate new surfaces from sample data.
- Distance Analysis Using ArcGIS Uses ArcGIS Spatial Analyst tools to create raster surfaces for distance and path analysis.
- Deriving Rasters for Terrain Analysis Using ArcGIS Uses ArcGIS Spatial Analyst tools to derive new raster data from an elevation raster for a variety of applications.
- Using Raster Data for Site Selection Uses ArcGIS Spatial Analyst tools to perform different types of site selection analysis.
- Network Analyst Using ArcGIS Use ArcGIS Network Analyst and network data to determine optimal locations for a new facility, analyze market areas, and create optimized routes.
- Building Models for GIS Analysis Using ArcGIS Teaches how to use the ArcGIS ModelBuilder application to create, validate, and run models that automate geoprocessing and analysis workflows.
- Exploring Spatial Patterns in Your Data Using ArcGIS Explains how to conduct an in-depth examination of data characteristics using spatial statistics tools and ArcGIS Geostatistical Analyst tools.
- Regression Analysis Using ArcGIS Introduces regression analysis concepts and teaches how to create a properly specified regression model.

Data collection and management
These training offerings provide options for extending learning about GIS analysis and modeling.

ArcGIS Online
- Get Started with Survey123 for ArcGIS (Tutorial) Teaches how to create a Survey123 form, analyze data, and share survey results with other ArcGIS platform client apps.

ArcGIS Desktop using ArcMap
- Working with Geodatabase Domains and Subtypes in ArcGIS Teaches how to use domains and subtypes to maximize editing efficiency and minimize potential for data entry error.
- Creating and Editing Metadata in ArcGIS Discusses the different styles of metadata. Learn steps to create, update, and maintain metadata in ArcGIS for projects and organizational standards.

Imagery and remote sensing
The following e-Learning courses cover key skills and concepts for working with imagery in ArcGIS.

ArcGIS Desktop using ArcGIS Pro
- Earth Imagery at Work (MOOC, September 6 - October 17, 2017, 6 weeks) Covers how the information captured in imagery can be interpreted, analyzed, and collected.
- Assess Burn Scars with Satellite Imagery (Tutorial) Steps through a workflow to display different spectral band combinations, calculate an index, and publish data layers to ArcGIS Online.
- Displaying Raster Data Using ArcGIS Pro Covers techniques to display, symbolize, and enhance the appearance of rasters in ArcGIS Pro.
- Processing Raster Data Using ArcGIS Pro Teaches efficient ways to process raster data and extract information products on-the-fly using raster functions in ArcGIS Pro.
- Change Detection Using Imagery Covers improving the appearance of imagery, NDVI and NBR analysis, and digitizing features to quantify areas of change.
ArcGIS Desktop using ArcMap
- **Basics of Raster Data** Teaches the fundamental concepts of the raster data model.
- **Managing Raster Data Using ArcGIS** Teaches how to organize raster data within a mosaic dataset in preparation for visualization and analysis.
- **Classifying Imagery Using ArcGIS** Teaches image classification techniques to convert raw imagery into tangible information for a variety of tasks.
- **Georeferencing Raster Data Using ArcGIS** Teaches a workflow to align a raster dataset with its real-world location and evaluate the accuracy of georeferencing results.
- **Orthorectifying Imagery Using ArcGIS** Presents two different methods for orthorectifying imagery: using the Image Analysis window and a mosaic dataset.
- **Creating Prediction Surfaces in ArcGIS** Teaches updated techniques (ArcGIS 10.3) to create raster surfaces that model continuous phenomena using sample data values.
- **Working with Full Motion Video in ArcGIS** Explores how to fully utilize video from unmanned aerial sensors or static cameras using the ArcGIS platform.

Green Infrastructure and GeoDesign
These courses introduce green infrastructure concepts and GeoDesign workflows in ArcGIS.
- **Exploring Design Alternatives Using GeoPlanner for ArcGIS** Introduces how to use GeoPlanner for ArcGIS to manage planning data and create planning designs. (NOTE: This course will be retired January 1, 2018.)
- **Introduction to Green Infrastructure** Presents workflows for strategically planning and managing open space assets.
- **Building the Foundation for Green Infrastructure Planning** Teaches how to select and weight criteria based on project goals, and adjust criterion filters to refine the selection.
- **GeoPlanner for ArcGIS: Exploring the Green Infrastructure in Your Study Area** Introduces using GeoPlanner to consider green infrastructure in a design.
- **GeoPlanner for ArcGIS: Designing with Real-Time Feedback** Teaches how to evaluate how well a design meets project requirements using GeoPlanner.
- **GeoPlanner for ArcGIS: Evaluating Plans** Compare scenarios in GeoPlanner and share designs with stakeholders.

Notes
1. We recommend that you watch the Training Seminar, [Going Pro: ArcGIS Pro Essentials for ArcMap Users](#), if you are an experienced ArcMap user preparing to teach ArcGIS Pro.

2. You can view lists of new training, training pending retirement, and retired training on the [New and Retired Training Options](#) page. You will receive a message when retirements are announced (click View Messages when signed in to Training).

3. There are two approaches to registering a whole class for a MOOC.
   - Students can register individually.
   - The instructor can email a list of student names and email addresses to the MOOCs program manager ([highered@esri.com](mailto:highered@esri.com)). We will manually register the students, and then confirm that everyone is registered, and make sure that the instructor and students are aware of course deadlines.

4. We can transfer a student’s training history from an institutional account to a different account. To do so, students should contact Esri Customer Service ([service@esri.com](mailto:service@esri.com) or 888-377-4575).