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# 3D Analyst – Mapping the Next Dimension

*Course Length: 16 hrs*

*ArcGIS Version: 10.X*

## Overview

This class introduces students to the 3D Analyst extension and to 3D visualization techniques using ArcScene. Students learn how to display 2D data in 3D by utilizing elevation values from surface data and how to convert 2D data to 3D data with z values. Topics include the editing and digitizing of 3D features, the display of 3D feature data, and the analysis capabilities of the 3D Analyst toolbox. Students will learn to create and manage TINs (triangulated networks) and will learn the differences between a raster surface and a TIN surface. A series of exercises using a variety of different 3D data will provide students with an opportunity to utilize concepts discussed during the lectures.

## Audience

This course is for those who are already comfortable with the basics of ArcGIS, but who want to learn about 3D data display and analysis.

## Prerequisites and Recommendations

Students should have knowledge of Microsoft Windows® and be familiar with the basic use of ArcGIS, including the topics covered in **Fundamentals of ArcGIS** and in **Intermediate GIS Concepts**.