

THE CLASSES

An important component of this program is the class project which will be introduced in the first class and carried through the entire certificate program. Certificate graduates will have a completed project portfolio to demonstrate skills developed in these classes.

INTRODUCTION TO GIS (1.8 CEUS/18 HOURS)

Prerequisite: a basic working knowledge of the Windows Operating System and the Internet is highly recommended. In this class you are introduced to GIS and how it is utilized in today's world. This class will provide a comprehensive overview of GIS including the major components of hardware, software, data and the identification of the skills required of a successful GIS Specialist. You are introduced to ArcGIS software which you will be using throughout the certificate program. You will gain an understanding of the profession and examine the role and functions of the GIS specialist in a broad range of industries.

DATA: METHODS AND USES IN GIS (2.4 CEUS/24 HOURS)

Prerequisite: Introduction to GIS or equivalent experience. Using existing data you will gain an understanding of GIS database principles, the differences between spatial and arbitrary data, and sources for these types of data. Participants will learn, through hands-on experience, the process of acquiring data, assessing quality and querying that data using ArcGIS software.

GIS MAPPING: TELLING A STORY (2.4 CEUS/24 HOURS)

Prerequisite: Data: Methods and Uses in GIS, Introduction to GIS. This course continues to build on GIS concepts and methodologies utilizing the mapping process. Key cartographic terms and concepts will be introduced as you learn to develop purposeful maps for analysis and problem solving.

GIS CERTIFICATE PROJECT: PUTTING IT ALL TOGETHER (1.8 CEUS/18 HOURS)

Prerequisite: completion of the three previous courses in this program. This capstone course integrates the knowledge and skills developed over the previous required courses. You will complete and present your class project.

For more information www.csufextension.org or
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