

# INTRODUCTION TO CAD MAPPING: TOPOGRAPHIC MAPPING OVERVIEW

## INTRODUCTION

Welcome to week 6: There are many avenues to explore in CAD mapping; you can design a house, subdivision, highways, or plan an entire city! In our particular case, where interested in locating and mapping natural and man made features along with ground elevations to produce contours, a map commonly referred to as a Topographic map, (Topo map for short). Our topo map will be at a scale commonly used by Engineers and Surveyors for Site Plans; A Site Plan is a map that shows proposed land improvements along with a topo map to illustrate the planned development.

It's time to put everything we've collected and measured in the field onto paper.

### Topics:

- Introduction to CAD Mapping
- Topographic Mapping

### Outcomes:

1. Student will demonstrate his/her ability to comprehend and develop a Topographic map using a CAD program.
2. Student will demonstrate his/her ability to produce line work in order to map natural and manmade features located in the field using a CAD program.
3. Student will demonstrate his/her ability to do online research for CAD mapping purposes.
4. Student will demonstrate his/her ability to produce Contours from point data collected in the field using a CAD program.
5. Student will demonstrate his/her ability in applied survey math by reviewing all coordinate field points and relative angles and distances from one another for proper alignment and placement onto a CAD map.

## Activities (Required)

### In-Class Exam

1. EXAM in Class on Wednesday, June 24 @4:30pm - 7:30pm. (*NOTE: EXAM will be worth 15% of your final grade.*)

## Lesson

Work through the Lesson below. Take the review quiz after reviewing the lesson. (*The lesson is worth 10 points.*)

2. Lesson 6.1 Topographic Mapping

## Assignments:

3. Assignment 6: Import field points into CAD
4. Lab 6: Create Contours

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