

University of Arkansas - Fort Smith
5210 Grand Avenue
P. O. Box 3649
Fort Smith, AR 72913-3649
479-788-7000

General Syllabus

DFTG 2754 Civil Drafting Applications

Credit Hours: 4

Lecture Hours: 4

Laboratory Hours: 0

Prerequisites: DFTG 1234 Engineering Graphics or consent of instructor

Effective Catalog: 2023-2024

I. Course Information

A. Catalog Description

Introduction to civil drafting using 3D software. Students will learn how to use software from the civil engineering industry for designing roads, bridges, storm drainage, and other systems.

B. Additional Information

This course provides the student with information on the latest version of 3D software being used in the civil industry.

II. Student Learning Outcomes

A. Subject Matter

Upon successful completion of this course, the student will be able to:

1. Create basic 3D civil engineering drawings.
2. Identify and define common terminology used in the civil engineering industry.
3. Use civil engineering-based units of measurement to annotate project drawings.

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Analytical Skills

Critical Thinking - Students will analyze civil-engineering based information such as site plans and create industry-appropriate drawings with appropriate annotations such as dimensions and notes.

III. Major Course Topics

A. Introduction to 3D civil drafting software

1. User interface
2. Workflow
3. Modeling
4. Animation

B. Interface with other software packages

1. Exporting to proper formats
2. Importing information into the program from other sources