

University of Arkansas - Fort Smith
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General Syllabus

BSAT 3774 Advanced CAD Customization

Credit Hours: 4

Lecture Hours: 2

Laboratory Hours: 4

Prerequisite: Junior standing or CGT 2684 Digital Design Level II or CGT 2834 Machine Drawing and Design or CGT 2654 Architectural CAD Applications.

Effective Catalog: 2018-2019

I. Course Information

A. Catalog Description

Provides in-depth understanding of graphic software while learning to configure basic shape files, complex line types, hatch patterns, along with CAD office configurations and plotting styles.

B. Additional Information

Advanced assignments in the course will be based on typical professional workplace assignments. This course is intended to enhance the marketability of the BSAT graduate.

II. Student Learning Outcomes

A. Subject Matter

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

1. Utilize advanced tools within the AutoCAD program.
2. Modify the User Interface.
3. Formulate enhancements through customizations in the major course topic areas.

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Analytical Skills

Critical Thinking Skills: Students will identify problems/issues to customize AutoCAD software packages.

Quantitative Reasoning: Students will be able to assign and use numbers, read and analyze data, create models, draw inferences, and support conclusions based on sound mathematical reasoning using AutoCAD software.

III. Major Course Topics

- A. Creating ribbons
- B. Creating pull-down, cascading and cursor menus
- C. Customizing toolbars
- D. Image tile menus
- E. Shapes
- F. Auto Lisp and Visual Lisp
- G. Creating line types and hatch patterns
- H. Creating programmable dialog boxes