

University of Arkansas - Fort Smith
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General Syllabus

BSAT 3993 Applied CAD Technologies

Credit Hours: 3

Lecture Hours: 2

Laboratory Hours: 2

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

Basics of CAD training techniques includes software and equipment especially beneficial to the instruction of CAD.

B. Additional Information

This course is designed for all CAD disciplines – architects, engineers, designers, or anyone who needs a thorough understanding of graphic standards and basic graphic communication knowledge. Basic projects will be developed that will apply to each area.

II. Student Learning Outcomes

A. Subject Matter

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

1. Set challenging learning goals.
2. Revise goals for vocational courses.
3. Plan assignments using technical and academic knowledge and skills.
4. Determine the content of vocational courses in the context of a career major of CADD.
5. Define how courses should be delivered to ensure students' success in meeting quality standards.
6. Explain state and national CAD standards.
7. Develop assessment strategies that hold students accountable for achieving quality learning.

B. University Learning Outcomes

This course enhances student abilities in the following areas:

Communication Skills (written and oral)

Students will compose a written syllabus for an actual classroom setting.
The students will start their collection of projects that can be used to teach a beginning course on CAD.

III. Major Course Topics

- A. Professional organizations and associations in education and CADD fields
- B. Lesson planning and syllabus construction
- C. Use of learning visualization skills
- D. Various types of education applications
- E. Use of e-portfolio