

AEC 101 : Construction Graphics and Conventions

Credits: 3

Class Hours: 3 lecture

Description: This course covers an introduction to the principles of graphic communication and conventions as it applies to drawing and reading construction plans using hand sketching, various computer-aided design, and construction administration software. Techniques for measuring items of construction work from plans and specifications, layout, terminology, graphic standards and drafting fundamentals are studied. There is an emphasis on how to locate information and cross reference with details, schedules, and specifications for clarification. This course also introduces students to some computer architectural 3D modeling using SketchUp or similar software.

Semester Offered: Fall

Course Student Learning Outcomes (CSLOs):

1. Describe how complex plan sets are organized.
2. Explain the special characteristics of commercial plans and summarize how to read and interpret them.
3. Compare and describe the components of civil plans.
4. Recognize the components of an exterior wall section.
5. Identify typical contract documents and describe their function.
6. Distinguish and define the components of site plans.
7. Utilize software to aid in the reading and interpretation of construction plans.
8. Define typical construction symbols, line types, and terminology.