

ENGINEER DESIGN GRAPH (ARCE)

ARCE 1415 Structural Steel Detailing 4 Credits (3 Lec, 3 Lab)

This course covers the preparation of structural steel drawings and bill of materials for the purpose of fabrication and erection. Emphasis will be placed upon using structural design framing plans to develop detailed steel members, connections, and assemblies.

Prerequisite(s): ARCE 1452 or department chair approval

Course Type: Technical

ARCE 1421 Architectural Illustration 4 Credits (3 Lec, 3 Lab)

This course focuses on architectural drawing and sketching. Emphasizes architectural structures in 3-D or pictorially, either by hand or computer software.

Course Type: Technical

ARCE 1452 Structural Drafting 4 Credits (3 Lec, 3 Lab)

This course is a study of structural systems including concrete foundations and frames, wood framing and trusses, and structural steel framing systems, including detailing of concrete, wood, and steel to meet industry standards of the American Institute of Steel Construction and The American Concrete Institute.

Prerequisite(s): DFTG 1305 and DFTG 1409 or Department Chair approval, Reading level 4.

Course Type: Technical