Minnesota State University Moorhead

CM 216: Construction Graphics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces construction print reading fundamentals and utilizes examples related to residential construction. Course material reinforces methods of construction/terminology and appropriate use of building materials. Students will utilize 3-D CAD modeling software for the design and layout of a residential construction project. Through the creation of a set of construction drawings, lecture materials will be reinforced while emphasizing the design process of a construction project. Students are expected to use CAD software in subsequent coursework and for CM 492 - Capstone Experience.

B. COURSE EFFECTIVE DATES: 03/08/2005 - 02/01/2024

C. OUTLINE OF MAJOR CONTENT AREAS

- 1. Demonstrate the building design process integrating by incorporating all the components of wall, floor, and roof systems required to complete a building project, including detailing.
- 2. Produce a set of construction drawings that will be graded by the instructor for clarity, completeness, and ability to communicate their intentions to the local building authority.
- 3. Produce a complete set of architectural drawings including foundation plans, floor plans, interior and exterior elevations, door and window schedules, electrical plans, and plumbing plans.
- 4. Utilize the Revit Architecture software to produce the assigned construction drawings.

D. LEARNING OUTCOMES (General)

- 1. Students will develop an effective understanding of how to read analyze construction drawings and associated nomenclature.
- 2.

Students will develop an effective understanding of construction materials and techniques through the creation of a set of construction drawings.

3. Students will apply CAD software to develop a set of construction drawings.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted