



# Course Outcome Summary

Required Program Core Course

## CONM 103 – AutoCAD and Residence Drafting

### Course Information

Division	ASET
Contact Hours	90
Theory	30
Lab Hours	60
Total Credits	4

**Prerequisites** CONM 110 – Blueprint Reading or Instructor Consent; MDTC 160 highly recommended

### Course Description

Complete working drawings are developed for one building of frame construction, with emphasis on the interrelationships of the various views, including site and floor plans, exterior and interior elevations, sections and details utilizing AutoCAD 2022. AutoCAD standards are implemented to complete a final project of a full set of construction drawings for a complete building.

**This course is a required core course for students pursuing a(n) AAS in Construction Management Technology**

### Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

- A - Analyze, interpret and understand the fundamental processes used to create project designs and construction documents.
- D - Employ the methods, materials, used in the design and construction of buildings and civil works.
- F - Interpret construction documents to accurately predict project costs and assign resources.
- I - Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.
- H - Interpret and apply applicable building codes and regulations in construction processes.

### Course Outcomes

In order to evidence success in this course, the students will be able to:

#### 1. Identify and implement architectural drafting standards and procedures in order to demonstrate knowledge and comprehension.

- A - Analyze, interpret and understand the fundamental processes used to create project designs and construction documents.
- H - Interpret and apply applicable building codes and regulations in construction processes.



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**2. Develop elevation, plan, and section views using different types of orthographic views.**

F - Interpret construction documents to accurately predict project costs and assign resources.

I - Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.

**3. Utilize the layers within AutoCAD to create designs and models.**

D - Employ the methods, materials, used in the design and construction of buildings and civil works.

I - Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.

**4. Create and evaluate a fully functional set of complete construction drawings for a single-story, wood frame structure utilizing AutoCAD**

D - Employ the methods, materials, used in the design and construction of buildings and civil works.

F - Interpret construction documents to accurately predict project costs and assign resources.

I - Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.

**5. Analyze, evaluate and create 3D views for buildings of light frame construction, using synthesis and creation skills.**

D - Employ the methods, materials, used in the design and construction of buildings and civil works.

F - Interpret construction documents to accurately predict project costs and assign resources.

I - Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.

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