

Course Description

ARC1126C | Architectural Drawing 1 | 4.00 credits

This course exercises the visualization and drafting of architectural objects and construction conditions. Students will learn to draw orthographic projections, isometric and sectional drawings as an expression of architectural communication. Topics include drawing plans, elevations, details, schedules, and sections of wood frame and masonry structures.

Course Competencies:

Competency 1: The student will demonstrate an ability to communicate graphically by:

1. Distinguishing drawing and graphic tools
2. Developing a consistent drawing process
3. Maintaining a clean and presentable drawing ethic

Competency 2: the student will demonstrate basic drafting skills by:

1. Developing and applying line quality conventions
2. Understanding and applying principles of geometric construction and orthographic projections
3. Creating axonometric and isometric drawings
4. Composing plans and section drawings

Competency 3: the student will demonstrate the ability to draw a basic set of working drawings by:

1. Understanding and incorporating architectural symbols, terms, abbreviations and methods of labeling and dimensioning
2. Using the proper scale in relation to the purpose and size of the drawing
3. Understanding the components and sequence of a set of working drawings
4. Assembling a basic set of architectural drawings (plans, elevations, sections, details)
5. Applying technical information regarding construction materials and specifications
6. Assembling and drawing door, window and finish schedules

Competency 4: the student will demonstrate the ability to interpret site plans, mechanical, electrical and plumbing drawings by:

1. Identifying and outlining the legal description of a property
2. Drawing a site plan and a location map
3. Identifying a basic mechanical plan with symbols and components
4. Identifying a basic electrical plan with symbols and components
5. Identifying a basic plumbing plan with symbols and components

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Demonstrate an appreciation for aesthetics and creative activities