**BARTON COMMUNITY COLLEGE**

**COURSE SYLLABUS**

# **GENERAL COURSE INFORMATION**

Course Number: PLMB 1040

Course Title: Commercial Drawing

Credit Hours: 2

Prerequisite: PLMB 1010 Plumbing Systems

Division/Discipline: Workforce Training and Community Education/Carpentry

Course Description: The course covers identification and interpretation of civil, architectural, structural, HVAC/mechanical, plumbing, and electrical drawings. Students will learn how to use the drawings to ensure accurate dimensions, generate RFIs, locate plumbing entry points, and establish piping routes and fixture locations.

1. **INSTRUCTOR INFORMATION**

# **COLLEGE POLICIES**

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage).

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

# **COURSE AS VIEWED IN THE TOTAL CURRICULUM**

This course is intended to prepare entry level employees or train incumbent workers in the carpentry/construction industry to perform identified job tasks to comply with federal regulations and industry standards. The course includes practical and classroom training. Upon successful completion of the course participants will be prepared to demonstrate identified skills to employers for qualification purposes.

# **ASSESSMENT OF STUDENT LEARNING**

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Interpret information from given site plans.
   1. Locate utilities.
   2. Locate the highest elevation.
   3. Interpret information on a site plan.
2. Verify the information on commercial drawings.
   1. Ensure the accuracy of the dimensions as they relate to the building.
   2. Generate a request for information (RFI) to address discrepancies.
   3. Locate plumbing entry points, walls, and chases.
3. Lay out plumbing systems and fixture rough-ins.
   1. Establish a piping route.
   2. Lay out fixture locations using commercial drawings, approved submittals and floor plans.
   3. Recognize the need for coordination drawings and shop drawings.
   4. Use building information modeling (BIM) for coordination.
4. Complete a material takeoff for drainage, waste, and vent (DWV) and water supply systems from information shown on drawings.
   1. Create an isometric sketch
5. **INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS**

# **TEXTBOOKS AND OTHER REQUIRED MATERIALS**

# **REFERENCES**

# **METHODS OF INSTRUCTION AND EVALUATION**

# **ATTENDANCE REQUIREMENTS**

1. **COURSE OUTLINE**