# HUDSONVILLE HIGH SCHOOL COURSE FRAMEWORK

**COURSE / SUBJECT** | **ARCHITECTURAL DRAFTING A**

| **KEY COURSE OBJECTIVES/ ENDURING UNDERSTANDINGS**<br>Important ideas and core processes | **UNIT PACING**<br>Names of units and approximate pacing | **UNIT LEARNING TARGETS**<br>By the end of the unit, students will be able to... |
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| Students who are planning careers in architectural design, interior design, and/ or construction are especially urged to consider this three-trimester level course. This course is designed to prepare students for entering a college level drafting course. This course includes room planning techniques, fireplace details, residential floor plan design, foundation plans, floor framing plans, roof framing plans, and roof plans. Projects will be performed on the computer using AutoCAD. Good drafting technique, quality workmanship, and design will be stressed throughout the course. | Introduction to House Design | • Explain the chief advantages of house design<br>• List disadvantages of house design<br>• Identify parts of a completed house plan set |
| | Fireplaces, Chimneys, and Stoves | • Compare various types of fireplaces that are appropriate for a residence<br>• Identify the parts of a standard masonry fireplace and chimney<br>• Apply the appropriate principles to design a typical fireplace<br>• Use a fireplace design data chart<br>• Explain the difference between a radiant and circulating stove |
| | Stairs | • Define common stair terminology<br>• Explain the appropriate use of the various stair designs<br>• Design a stairway for a residential structure<br>• Draw structural details for main stairs<br>• Identify model code requirements for handrails and guardrails |
| | Floor Plans | • Design and draw a residential floor plan using accepted techniques<br>• Dimension a floor plan in a clear and precise manner<br>• Draw proper symbols shown on a floor plan<br>• Explain the information shown in a window or door schedule<br>• Explain the information shown in a room finish schedule<br>• Prepare door, window, and room finish schedules |
| | Foundation/Basement Plans | • Analyze a typical floor plan to determine the appropriate foundation<br>• Identify the primary features included in a foundation plan<br>• Draw proper symbols shown on a foundation/basement plan<br>• Prepare door, window, and room finish schedules |