

West Linn–Wilsonville School District
The Arts (Communications/Technology) – Course Statement

<u>Course Title: Architectural Drafting</u>	
Length of Course:	Year
Number of Credits:	2
Grade Level:	10, 11, 12
Prerequisites:	Computer Aided Drafting (CAD)
CIM Work Samples	
Offered in Course:	Math and speaking work samples
Date of Description/Revision: 2002	
Course Overview	
<p>This course covers residential architectural drawing techniques, technical drawings, designing of floor plans, elevations, foundations, roof, section, detail, perspective drawings, color boards, and model making. Students will also begin to use the computer to draw designs using a number of CAD programs that are used in the field of architectural drafting. Students will work on designing house plans that fit specific criteria including design principles that make a house functional and aesthetically pleasing. Each student will create and maintain a portfolio which will include drawings, written self-evaluations of their drawings, notes, handouts, and quizzes.</p>	
Essential Questions	Concepts providing focus for student learning
<ul style="list-style-type: none"> • What plans are needed to construct a residential home? • What are the considerations for meeting the challenge of the design? • How would one present the design to promote its value, purpose and selling points? 	
Proficiency Statements	
<p>Upon completion of course, students will be able to:</p> <ul style="list-style-type: none"> • Draw to scale and code a working set of residential house plans. • Analyze how technical, organizational and aesthetics elements contribute to the design. • Respond to the design work, giving reasons for the preferences. • Analyze the design comparing and contrasting it to another architectural design. • Uncover the relationships amongst cultural, societal, practical, historical architectural perspectives. • Present and defend their design ideas amongst their peers. 	
General Course Topics/Units & Timeframes	
<p>A. Lettering Exercise B. Lettering Exercise</p>	

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- C. How to Read an Engineering Scale
- D. Plot Plan
- E. Landscape Plot Plan
- F. Reading a Floor Plan
- G. Interior Doors
- H. Exterior Doors and Windows
- I. Engineering Dimensioning
- J. Engineering Dimensioning
- K. Engineering Dimensioning
- L. Kitchen Symbols
- M. Bathroom Symbols
- N. Electrical Plan
- O. Electrical Plan
- P. House Floor Plan
- Q. House Roof Plan
- R. House Foundation Plan
- S. Window Elevations
- T. Elevation Symbols
- U. Elevation Masonry
- V. Elevation
- W. Elevation Dimensions
- X. House Elevation Plan
- Y. House Section Plan
- Z. House Detail Plan
- AA. House Perspective Plan
- BB. Student Designed Floor Plan
- CC. Student Designed Roof Plan
- DD. Student Designed Foundation Plan
- EE. Student Designed Section Plan
- FF. Student Designed Detail Plan
- GG. Student Designed Elevation Plan
- HH. Student Designed Model

Resources

- Text: *Architectural Drafting and Design*, Jefferis & Madsen
- Text: *Architectural Residential Drawing and Design*, Kicklighter
- Text: *Architectural Drafting*, Earle
- Other: Class handouts