

ARCHITECTURAL DRAFTING **SYLLABUS**

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PREREQUISITE: Engineering Graphics, CAD, or drafting in 9th or willing to work hard to learn

TEXT: Architecture Drafting & design, by Hepler & Wallich

This is a full year elective course. Initially class time will be spent covering the basics of architectural design and room planning, review the basics of drafting and work through a series of tutorials to help you learn Autcad Architectural Desktop software. The remainder of the time will be spent designing and drawing residential home plans.

Course Skills:

1. Students will be able to identify historical influences shaping today's homes and describe elements of these for a particular style through a design presentation given to the class.
2. The student, upon designing a structure, will be able to justify the structure, in terms of: feasibility of design, type design for lot criteria, traffic circulation throughout the house, and advantages of type of design vs. other for a given lot.
3. Students will be able to evaluate a given site in regards to: restrictions, zoning codes, family needs, topographical features and utilities by creating site analysis sketches and bubble diagrams for various sites.
4. Students will be able to identify and draw the different plans required for a typical residential structure by creating each for their own design.
5. Students will be also be able to justify their house design in regards to the engineering aspect of design. These include load calculations, mechanical considerations and general cost of materials.
6. Students will identify the structural members of a typical structure and list their general function by creating a cross section view of their house.
7. Students will demonstrate through all finished drawings, an increased skill in drawing technique including line weight, lettering, neatness and accuracy.
8. Students will have a general understanding of orthographic visualization by creating 3-dimensional models from 2-dimensional plans.
9. Students will demonstrate their understanding of, insulation types, R-values, condensation, relative humidity and vapors barriers by relationships.
10. Students will show an understanding of diplomacy and constructive criticism through regular group critiques during the design process.
11. To be familiar with the occupation of an architect and the training needed.

Assignments we will complete:

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|-----------------------------|----------|
| 1. Review sketches | 50 pts. |
| 2. Lettering | 40 pts. |
| 3. Historical | 100 pts. |
| 4. Workstation designs | 30 pts. |
| 5. Remodel your home | 100 pts. |
| 6. Vacation recreation home | 150 pts. |
| 7. Design Sagon's home | 100 pts. |
| 8. Client design | 100 pts. |

A full set of residential home plan including :

Floor plan	150 pts.	Right & left elevation	100 pts
Foundation plan	75 pts.	Detail section	100 pts
Full house section	75 pts.	Plot plan	75 pts
Front & rear elevation	100 pts.	Electrical plan	50 pts.
10. Multiple family housing structure	150 pts.		

Projects we will tackle:

1. Straw bridge
2. House section model
3. Rolled paper structure
4. Plot model

Assessment Strategies:

1. Self Critique
2. Peer Critique / evaluation
3. Quizzes and Test (minimal)
4. Group Projects
5. Individual Reports
6. Drawings

The Grading Scale is as follows:

93 – 100	.....A	70 – 72	.....C-
90 – 92	.....A-	67 – 69	.....D+
87 – 89	.....B+	63 – 66	.....D
83 – 86	.....B	60 – 62	.....D-
80 – 85	.....B-		
77 – 79	.....C+		
73 – 76	.....C		