

Title : Architectural CAD

Type : Essential

	September				October				November				December				January				February				March				April				May				June					
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
September/Week 1	■																																									
Introduction: Class expectations & the school mission. Professional workplace habits																																										
September/Week 2	■																																									
Universal Systems Model: How products come into being. The design and manufacturing process. Measurement review – fractions & decimals. Reading a ruler. Use of architectural scales.																																										
September/Week 3	■																																									
Freehand sketching: from concept to developed idea. Perspective & floor plan sketching. Lettering: Creating legible, professional lettering.																																										
September/Week 4 - October/Week 6	■																																									
Mechanical drafting, Tools and equipment. Page setup. Creating 1 & 2 point perspective drawings using instruments. (3 weeks)																																										
October/Week 7 - November/Week 9	■																																									
Design & Build process: from concept to competition.																																										
November/Week 10 - November/Week 11	■																																									
Introduction to Envisioneer Architectural Design software. Program orientation & exploration. Drawing basic structure/inserting basic entities. (2 weeks)																																										
November/Week 12 - December/Week 13	■																																									
Summative design problem assignment. Open ended problem solving.																																										
December/Week 14	■																																									
Research on home styles & design. Detail home planning:																																										
December/Week 15 - December/Week 17	■																																									
Model-building activity. Create a scaled arch. model. Floor plans & site plans included. Presentation of spec. home designs. (3 weeks)																																										
January/Week 18 - January/Week 19	■																																									
Exploration of Architectural post-secondary education & careers.																																										