

DEPARTMENT: TECHNOLOGY EDUCATION	COURSE TITLE: COMPUTER AIDED / MECHANICAL DESIGN IN ARCHITECTURE 1 & 2 COURSE NUMBERS: 532A AND 532B
GRADE(S)10 - 12	PRE-REQUISITES (IF ANY): C.A.D. DRAFTING 1A & 1B

UNIT	LENGTH	CONTENT	SKILLS	METHODS OF ASSESSMENT	FRAMEWORK STRAND(S) & STANDARD(S)
Introduction and review of drafting tools	1 day	<ul style="list-style-type: none"> How to use the tools 	Student will: <ul style="list-style-type: none"> name and refer to the tools and equipment by their proper names 	<ul style="list-style-type: none"> Oral test 	STE-S-4, 9/10, 1.3 6/8, 3.2
Freehand sketches	1 week	<ul style="list-style-type: none"> Making freehand sketches of a residential building using proper architectural sketching techniques 	Students will: <ul style="list-style-type: none"> Sketch a floor plan and side elevations of a house 	<ul style="list-style-type: none"> Visual evaluation with suggestions for changes 	STE-S-4,9/10, 1.1, 1.2, 1.3, 1.4
Instrumental and/or C.A.D. drawings	On going for the whole trimester	<ul style="list-style-type: none"> Make a complete set of architectural drawings of a house, which include floor plans electrical plans, elevations, details and a plot plan 	Students will: <ul style="list-style-type: none"> Draw to scale the complete set of drawings necessary for a contractor to build a house 	<ul style="list-style-type: none"> Daily observation by teacher Class participation by the student 	STE-S-4, 9/10, 1.1, 1.2, 1.3, 1.4, 2.5 M- 10.M.10, 8.M.4, 8.G.5
Architectural Lettering	On going	<ul style="list-style-type: none"> Label and letter drawings using a major-feature technique. 	Students will: <ul style="list-style-type: none"> Letter accurately and neatly. 	<ul style="list-style-type: none"> Visual 	STE-S-4, 9/10, 1.3
Dimensioning	On going	<ul style="list-style-type: none"> Dimension the drawings 	Students will: <ul style="list-style-type: none"> Dimension the drawings in an accurate, neat and professional style 	<ul style="list-style-type: none"> Evaluation of drawings checking for scale 	STE-S-4, 9/10, 1.4
Prepare a program	1 week	<ul style="list-style-type: none"> Report/program showing the objectives for the design of the buildings students design 	Students will: <ul style="list-style-type: none"> Be able to tell the primary considerations of : the site, energy, basic structure, architectural styling, building codes, and cost 	<ul style="list-style-type: none"> Peer evaluation 	STE-S-4, 9/10, 1.1, 4.1, 4.4 STE-S-4, 6/8, 5.1, 1.3
Model making	3-4 weeks	<ul style="list-style-type: none"> Architectural models that are three-dimensional representations of complete designs 	Students will: <ul style="list-style-type: none"> Construct an architectural model of the house they designed 	<ul style="list-style-type: none"> House model 	STE-S-4, 9/10, 1.5 STE-S-4, 6/8, 1.3