



# Glendale Community College

Architecture Department

[glendale.edu/arch](http://glendale.edu/arch) – (818) 240-1000 ext 5528

# Welcome

- Introduction to GCC Architecture.
- Goals of the Department
- Training We Offer
- Certificate and Degree
- Skill Awards
- Architecture Department Courses
  - Project Examples
- Conclusion
- Questions

# Introduction to GCC Architecture

- The Goals of the Department are to:
  - Provide new students with the information, skills, and training to enter the field of architecture.
  - Provide a course of study which will allow those already working in architecture to advance within their organization.
  - Provide an overview of architecture, design, inspection and construction techniques and their dependencies upon each other.
  - Provide architecture firms a resource of trained and knowledgeable personnel for both entry level and advanced positions.

# Training We Offer

- The department offers training in:
  - Residential Drafting and Design
  - Commercial Drafting and Design
  - Architectural Drafting/Design Software
    - Revit
    - AutoCAD
    - SketchUp
    - Rhino

# Training We Offer

- The department offers training in:
  - Building Codes
  - Architectural Print Reading
  - Architectural Model Building
  - Descriptive Geometry
  - Perspective Graphics
  - Visualization Software
    - 3D Studio Max
    - Rhino

# Degree and Certificate

- Associate In Science (A.S.) Degree in Architectural Drafting and Design
- Certificate in Architectural Drafting and Design – 42 Units
- Both are transferable to:
  - Cal Poly Pomona – 1 year Articulation
  - Woodbury University – 2 year Articulation
  - NewSchool of Architecture - 2 year Articulation

# Skill Awards

- Architectural CAD Skill Award
- Architectural Introductory Residential Design Skill Award
- Architectural Advanced Residential Design Skill Award
- Architectural Commercial Design Skill Award
- Architectural Visualization Skill Award
- Architectural Permit Technician Skill Award
- Architectural Interior Design Skill Award

# Architecture Department Courses

- Arch 101
- Arch 102
- Arch 103
- Arch 105
- Arch 106
- Arch 108
- Arch 120
- Arch 125
- Arch 130
- Arch 135
- Arch 141
- Arch 142
- Arch 240
- Arch 250
- Arch 251

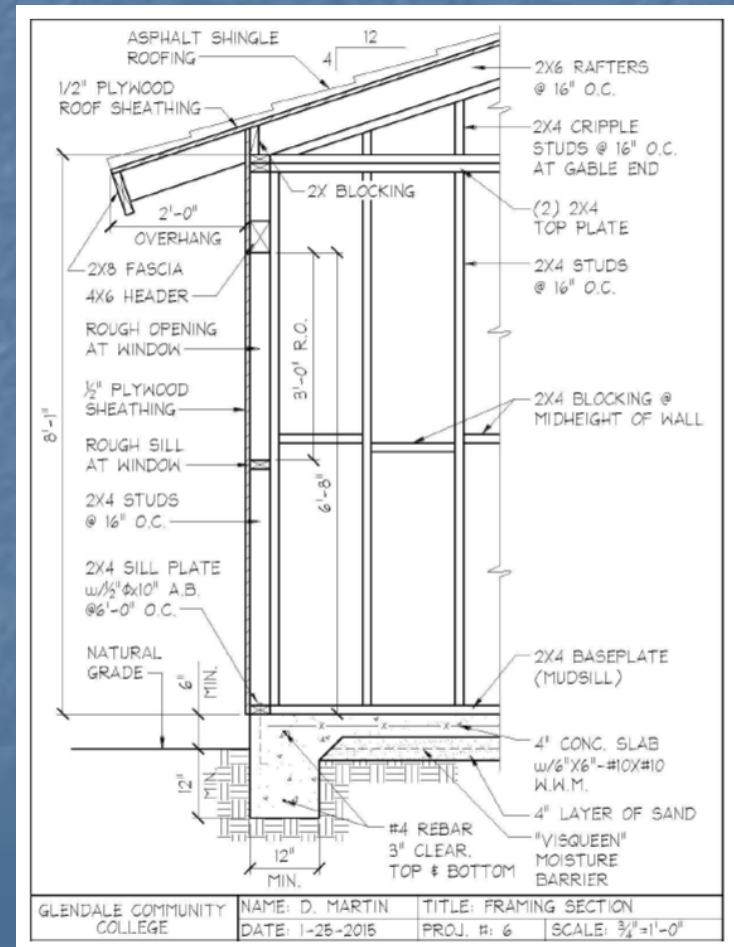
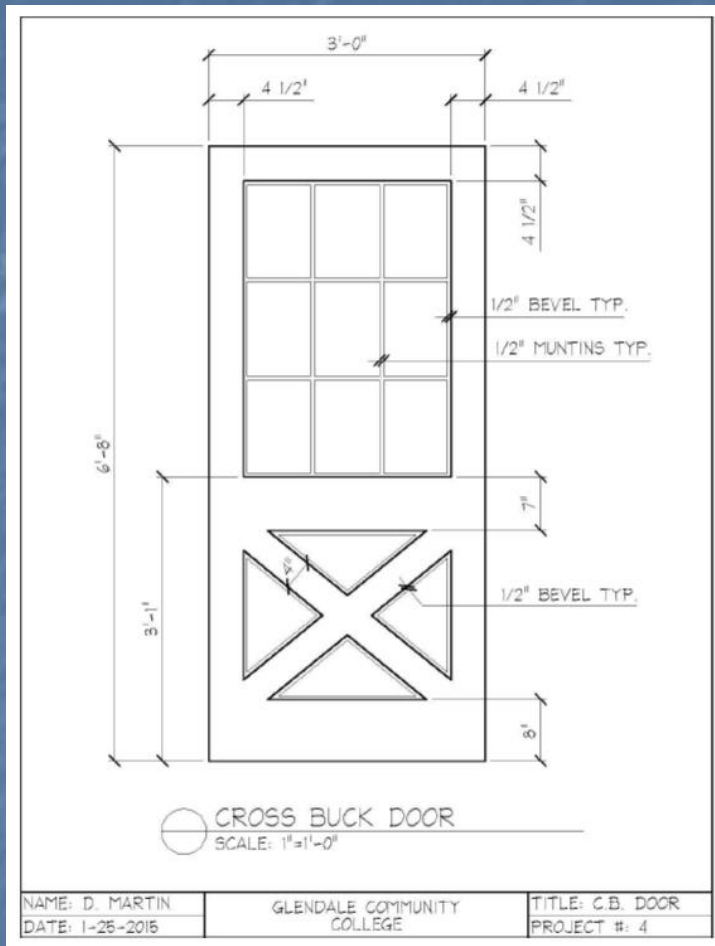


# Architecture 101

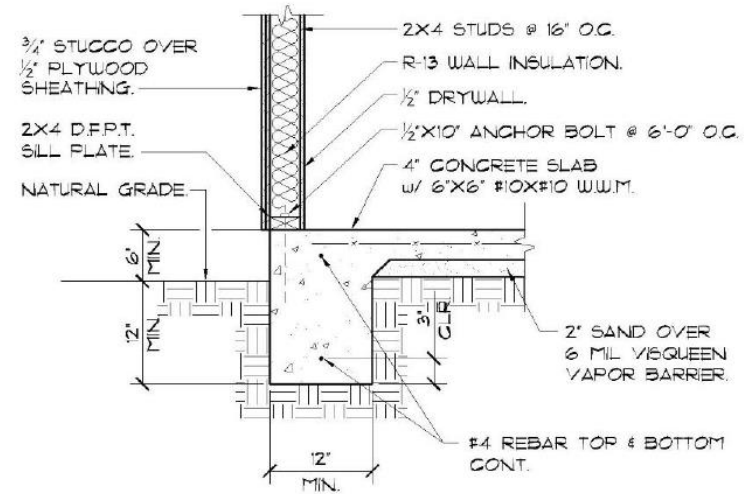
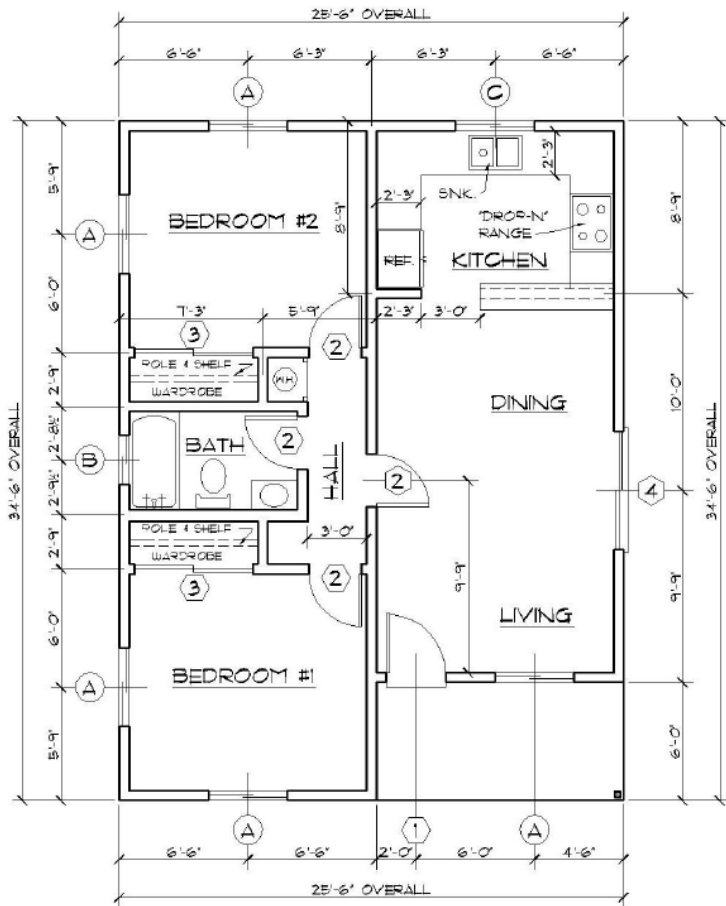
## Basic Drafting & Design

- Introduces the student to the field of Architecture and the drafting skills needed to create a residential design.
  - May use AutoCAD
  - Building materials for residential construction
  - Basic drafting techniques
  - Complete a series of construction documents for a one-story house
  - Portfolio

# Architecture 101



# Architecture 101



A  
A-4

EXT. BEAR. FOOTER

SCALE: 1/4"=1'-0"

# Architecture 102

## Architectural Drafting & Design

- Designed to give the student experience in designing a one-story residential house.
  - May use AutoCAD or Revit
  - Complete a series of construction documents
  - Design critique
  - Renderings
  - Portfolio

# Architecture 102



EXTERIOR RENDERING - NORTH



KITCHEN - NIGHT



EXTERIOR RENDERING - SOUTH

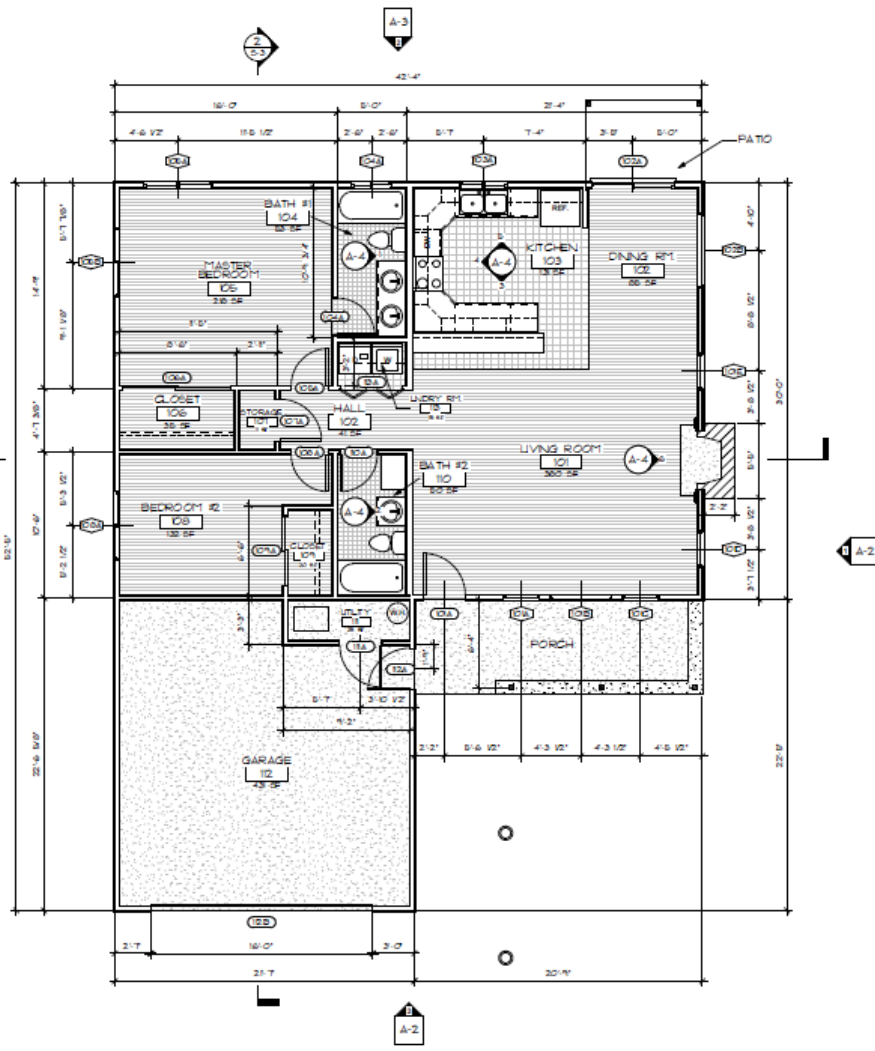


PERSPECTIVE SECTION

# Architecture 102

**GCC**  
 Glendale Community College  
 1500 North Verdugo Road  
 Glendale, CA 91208 - (818) 240-1000  
[www.glendale.edu/arch](http://www.glendale.edu/arch)

**Arch 102**  
**TWO BEDROOM HOUSE**



**FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

### DOOR SCHEDULE

MARK	WIDTH	HEIGHT	STYLE/TYPE	THICK	GLZ. AREA	MATERIAL	REMARKS
101A	3'-0"	7'-0"	Single-Decorative 2	2"	1.57 SF	WOOD	
102A	6'-0"	8'-11"	Sliding-2 panel	2"	31.14 SF	WOOD	Andersen # NLGD0611
104A	2'-8"	6'-8"	Single-Flush	2"	-	WOOD	
105A	2'-8"	6'-8"	Single-Flush	2"	-	WOOD	
106A	7'-0"	6'-8"	Sliding-Closet	2"	-	WOOD	
107A	3'-0"	6'-8"	Single-Flush	2"	-	WOOD	
108A	2'-8"	6'-8"	Single-Flush	2"	-	WOOD	
109A	5'-0"	6'-8"	Sliding-Closet	2"	-	WOOD	
110A	2'-8"	6'-8"	Single-Flush	2"	-	WOOD	
111A	3'-0"	6'-8"	Single-Flush	2"	-	WOOD	20 MINUTE FIRE RATED
112A	3'-0"	6'-8"	Single-Flush	2"	-	WOOD	
112B	16'-0"	7'-6"	Overhead-Sectional	1 1/2"	-	VINYL	
113A	4'-8"	8'-8"	Sliding-4 Panel	1 1/2"	-	WOOD	
114	3'-0"	5'-0"	Single-Flush - No Frame	2"	-	WOOD	

### WINDOW SCHEDULE

MARK	ROUGH OPENING WIDTH	HEIGHT	TYPE	ANDERSEN WINDOW #	GLZ. AREA	VENT. AREA	REMARKS
101A	2'-8"	4'-8"	Double Hung with Trim	244DQ2846	8.03 SF	4.73 SF	
101B	4'-8"	8'-0"	Fixed with Trim	244F X4650	17.85 SF	0.00 SF	
101C	2'-8"	4'-8"	Double Hung with Trim	244DQ2846	8.03 SF	4.73 SF	
101D	2'-8"	4'-8"	Double Hung with Trim	244DQ2840	8.87 SF	4.16 SF	
101E	2'-8"	4'-8"	Double Hung with Trim	244DQ2840	8.87 SF	4.16 SF	
102S	5'-8"	8'-0"	Fixed with Trim	244F X5255	22.11 SF	0.00 SF	
103A	3'-6"	4'-0"	Slider with Trim	244GW4036	9.70 SF	5.56 SF	
104A	3'-0"	2'-0"	Slider with Trim	244GW3020	3.32 SF	2.10 SF	
105A	5'-0"	4'-0"	Slider with Trim	244GW5040	14.80 SF	3.27 SF	
105B	5'-0"	4'-0"	Slider with Trim	244GW5040	14.80 SF	3.27 SF	
108A	5'-0"	4'-0"	Slider with Trim	244GW5040	14.80 SF	3.27 SF	

### ROOM FINISH SCHEDULE

NUMBER	NAME	FINISH					COMMENTS
		FLOOR	BASE	WALL	CEILING	CEILING HEIGHT	
101	LIVING ROOM	T&G FLOORING	WOOD	GWB	GWB	8'-6"	
102	HALL	CARPET	WOOD	GWB	GWB	8'-6"	
103	DINING RM	TILE	VINYL	GWB	GWB	8'-6"	
103	KITCHEN	TILE	VINYL	GWB	GWB	8'-6"	
104	BATH #1	TILE	VINYL	TILE & GWB	GWB	8'-0"	
105	MASTER BEDROOM	CARPET	WOOD	GWB	GWB	8'-0"	
106	CLOSET	CARPET	WOOD	GWB	GWB	8'-0"	
107	STORAGE	CARPET	WOOD	GWB	GWB	8'-0"	
108	BEDROOM #2	CARPET	WOOD	GWB	GWB	8'-0"	
109	CLOSET	CARPET	WOOD	GWB	GWB	8'-0"	
110	BATH #2	TILE	VINYL	TILE & GWB	GWB	8'-0"	
111	UTILITY	CONCRETE	NONE	GWB	NONE	8'-0"	
112	GARAGE	CONCRETE	NONE	GWB	GWB	8'-10"	
113	LNDRY RM	TILE	VINYL	VINYL & GWB	GWB	8'-0"	

No.	Description	Date

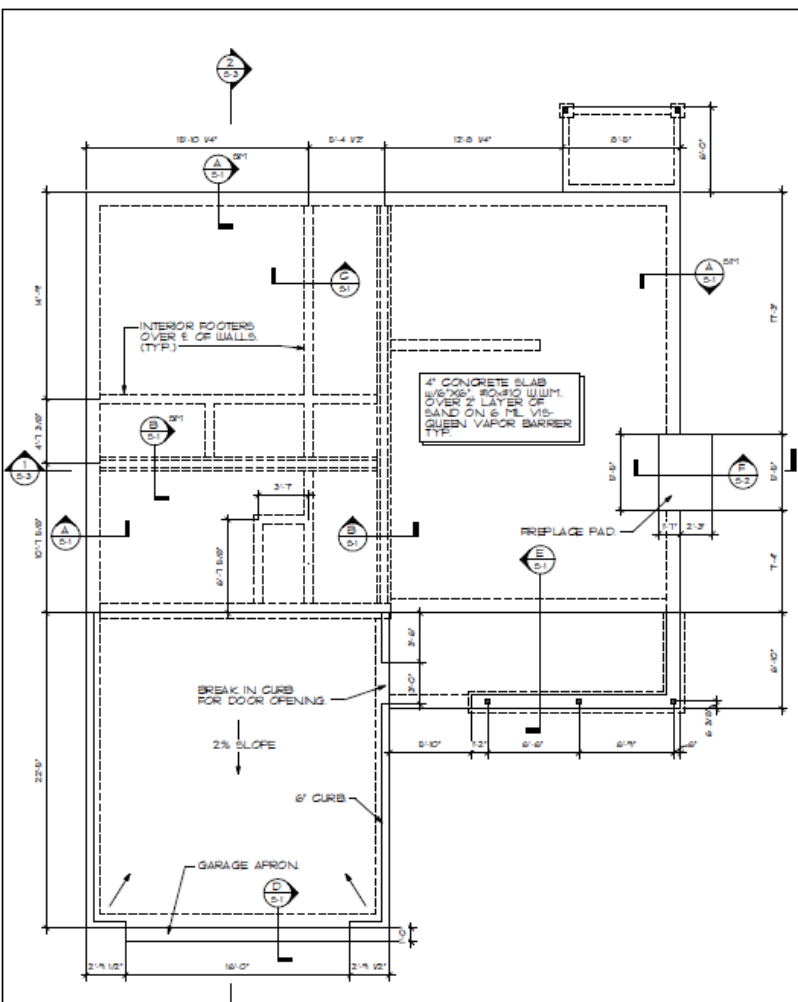
**FLOOR PLAN**

Project number: ARCH 102 - FINAL  
 Date: 12/05/2013  
 Drawn by: DAVE MARTIN  
 Checked by: NSA  
 Date: Arch 102

A-1

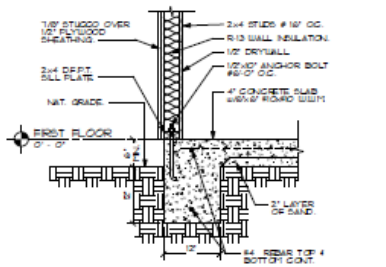
Scale: 1/4" = 1'-0"

# Architecture 102

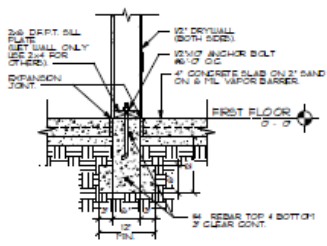


**FOUNDATION PLAN**

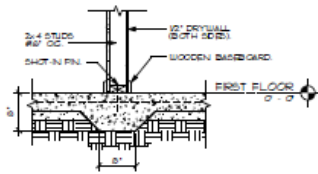
SCALE: 1/4" = 1'-0"



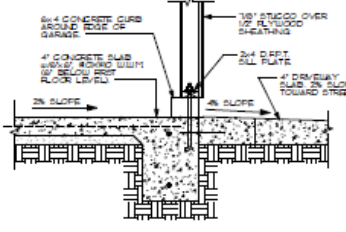
**A-A EXT. BEARING FOOTER** SCALE: 1" = 1'-0"



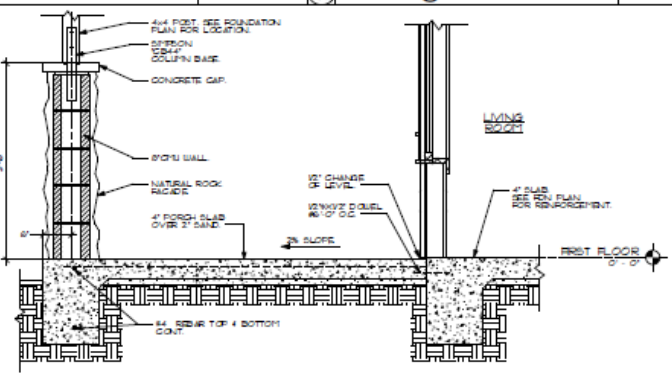
**B-B INTERIOR BEARING FOOTER** SCALE: 1" = 1'-0"



**C-C INT. NON-BEARING FOOTER** SCALE: 1" = 1'-0"



**D-D APRON @ GARAGE** SCALE: 1" = 1'-0"



**E-E PORCH WALL & SLAB DETAIL** SCALE: 1" = 1'-0"

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**Arch 102**  
**TWO BEDROOM HOUSE**

No.	Description	Date

**FOUNDATION PLAN & DETAILS**

Project number: ARCH 102 - FINAL  
 Date: 12/05/2015  
 Drawn by: DAVE MARTIN  
 Checked by: TUSA  
 Date: Arch 102

S-1

Date: As Indicated

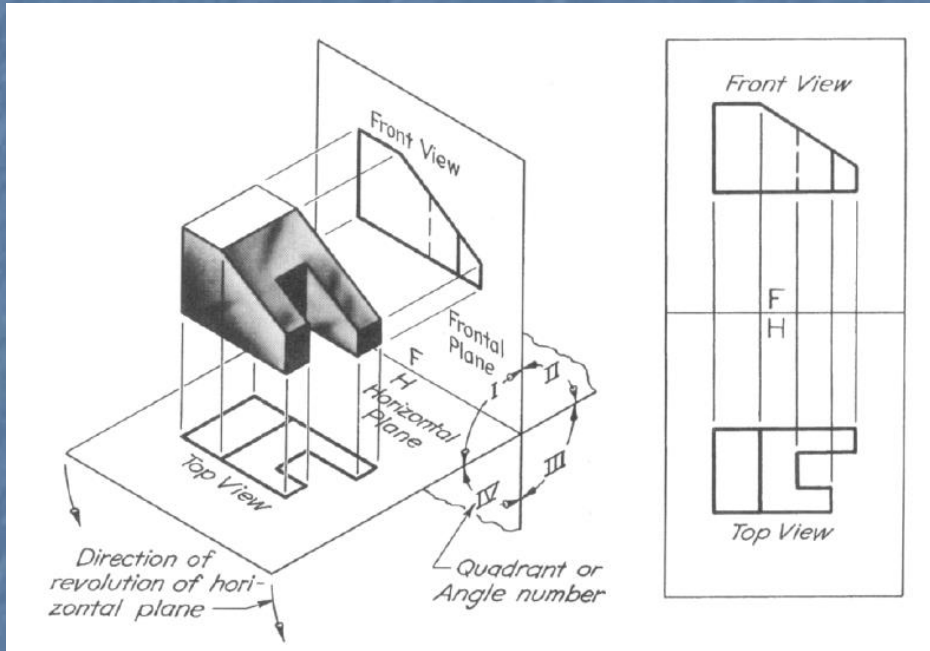
# Architecture 103

## Descriptive Geometry

- Training in the techniques to visualize complex three dimensional (3D) shapes and generate two-dimensional views .
  - Terminology
  - Auxiliary Views
  - Piercing Points
  - Portfolio



# Architecture 103



2h,i

A (10,65,100)      M (135,50,100)  
 B (50,65,115)      N (160,12,100)  
 C (60,65,90)        D (190,40,100)

2j,k

A (10,12,115)  
 B (50,12,90)  
 C (35,40,70)  
 D (15,25,75)

R (150,50,115)  
 S (160,25,90)  
 T (190,65,115)

YOUR NAME	DATE	ARCH/ENGR 103	2h,i,j
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# Architecture 105

## Perspective Graphics

- Training in manual and computer methods to generate a perspective view of an object.
  - Introduction to two and three point formal perspective.
  - Introduction to SketchUp and Rhino
  - Interior and exterior views of a structure.

# Architecture 105

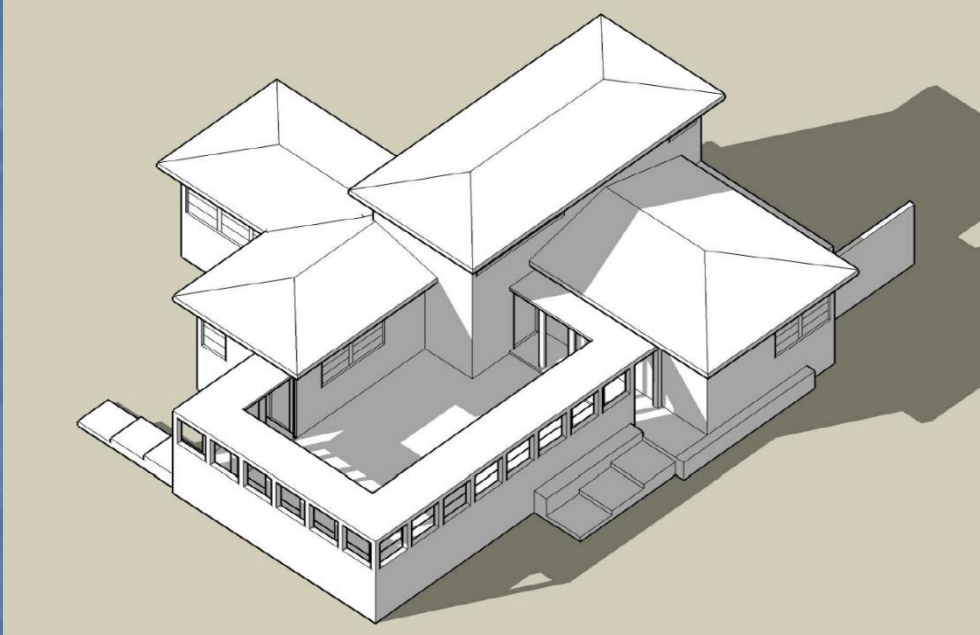


PICNIC TABLE

PICNIC TABLE



# Architecture 105



# Architecture 106

## Building Codes

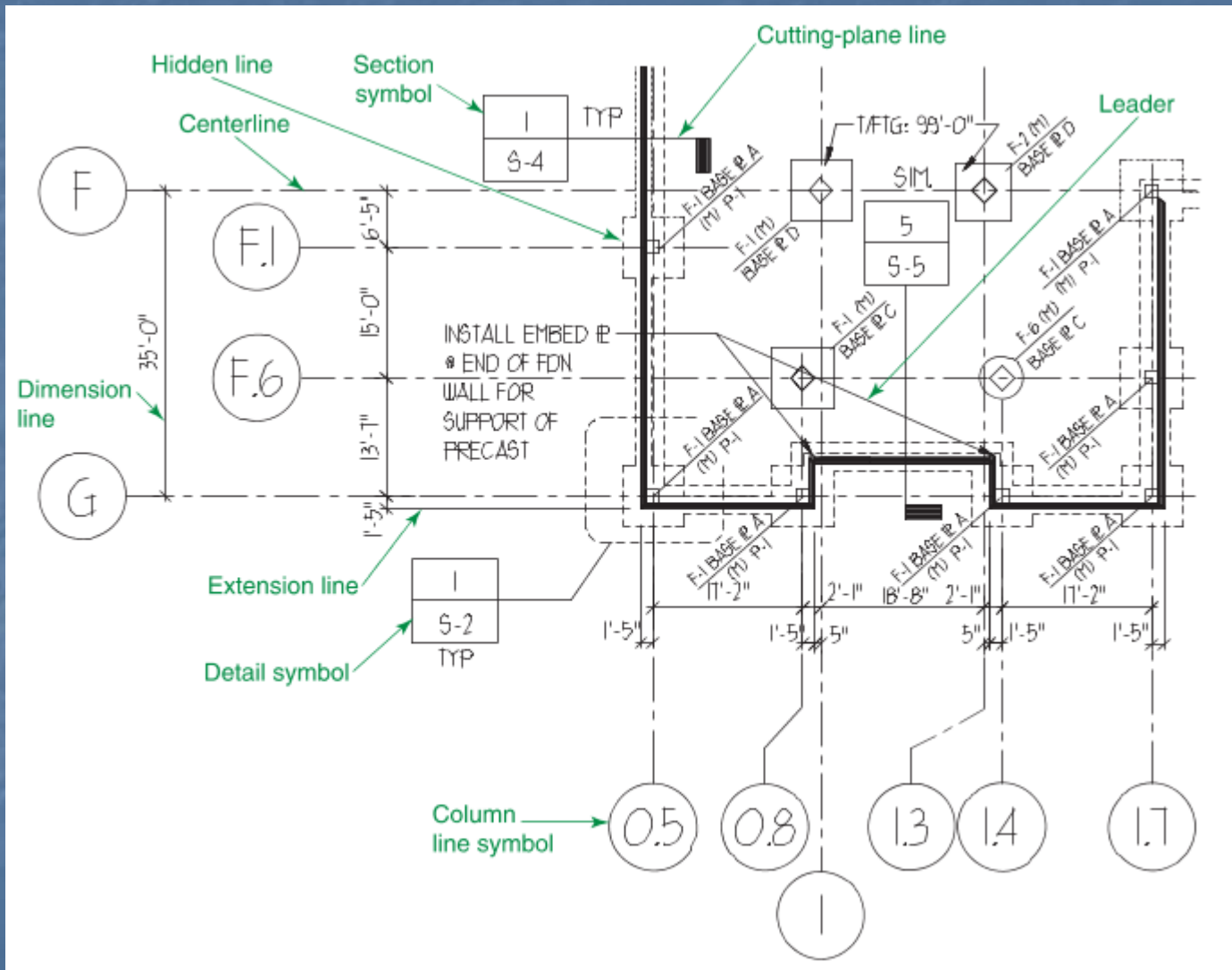
- Covers the current version of the International Building Code (IBC)
  - Types of Construction
  - Fire Resistivity
  - Egress Requirements
  - Fire and Life Safety Issues
  - Americans with Disabilities Act (ADA) Requirements.

# Architecture 108

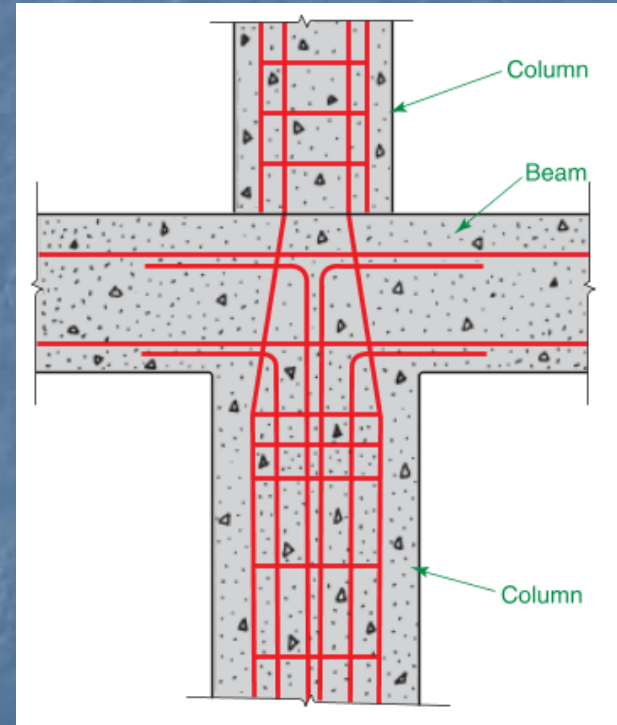
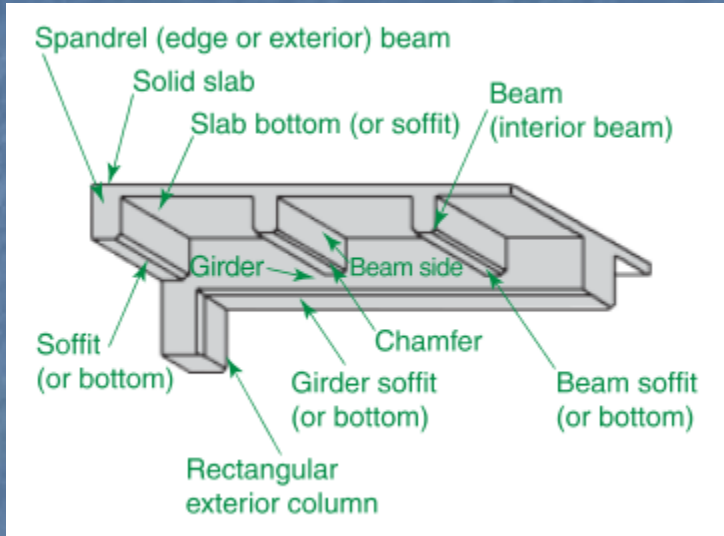
## Architectural Print Reading

- On-line class that introduces the student to the field of print reading.
  - Architectural Terminology
  - Construction Terms
  - Residential Prints
  - Commercial Prints

# Architecture 108



# Architecture 108





# Residential Design Courses

- **Architecture 120**  
Residential Architectural Design I
  - Two-story residential structure.
- **Architecture 125**  
Residential Architectural Design II
  - Multi-story residential/mixed use structure.

# Commercial Design Courses

- **Architecture 130**  
Commercial Architectural Design I
  - Single story commercial structure.
- **Architecture 135**  
Commercial Architectural Design II
  - Multi-story commercial/mixed use structure.

# Interior Design Courses

- **Architecture 141**

Interior Design

- Training in the materials and design methods for the interior of a residence.

- **Architecture 142**

Advanced Interior Design

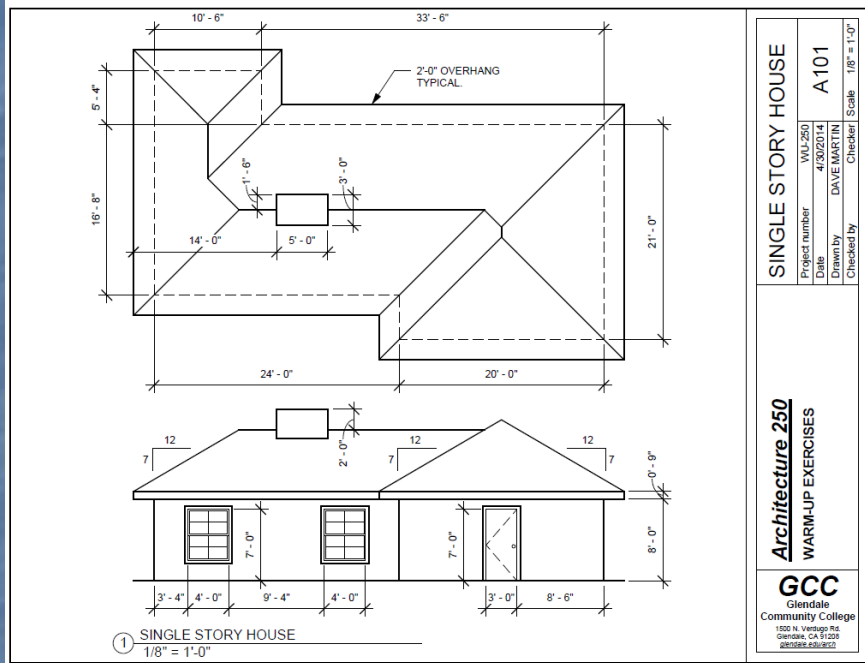
- Interior Design for Commercial Buildings.

# Architecture 250

Introduction to Autodesk Revit Architecture

- Introduces the student to the Autodesk Revit design software.
  - Building Information Modeling (BIM)
  - 3D Modeling of a structure
  - Construction documents
  - Rendering

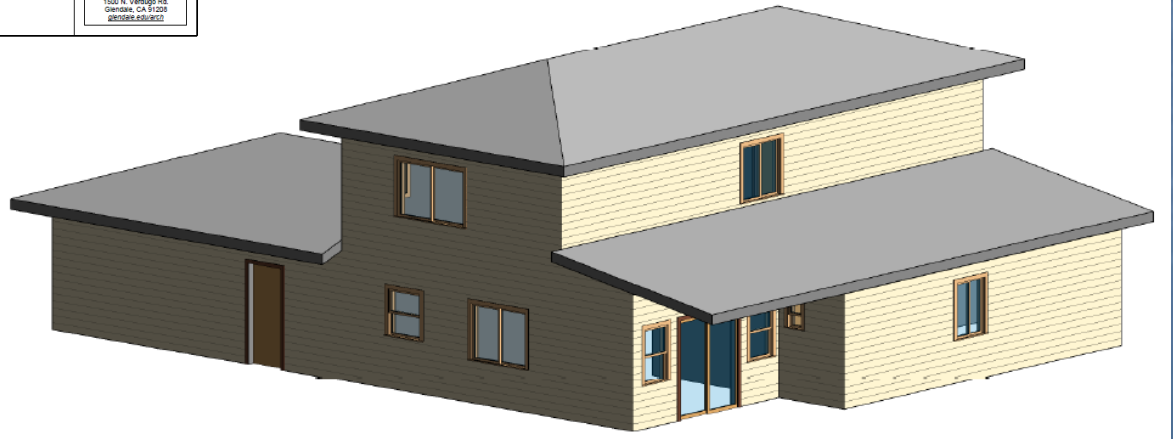
# Architecture 250



<b>SINGLE STORY HOUSE</b>	
Project number	VL2-250
Date	4/30/2014
Drawn by	DAVE MARTIN
Checked by	Checker
Scale	1/8" = 1'-0"

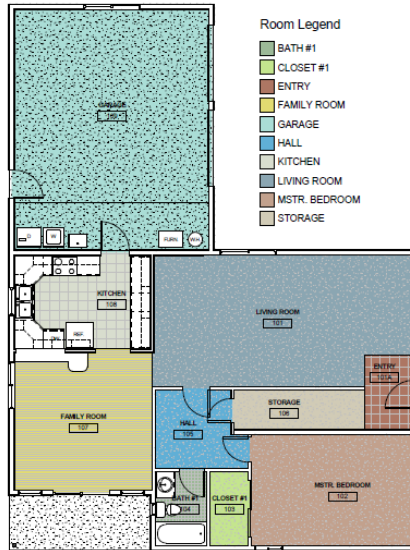
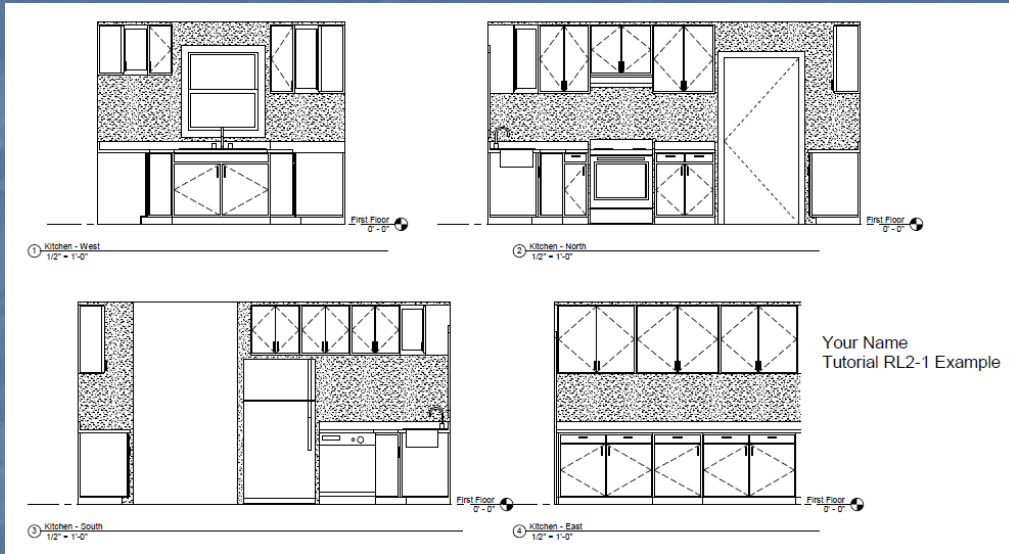
**Architecture 250**  
WARM-UP EXERCISES

**GCC**  
Glendale  
Community College  
1501 N. Verdugo Rd.  
Glendale, CA 91208  
818/248-1232



Your Name  
Tutorial RL1-5

# Architecture 250

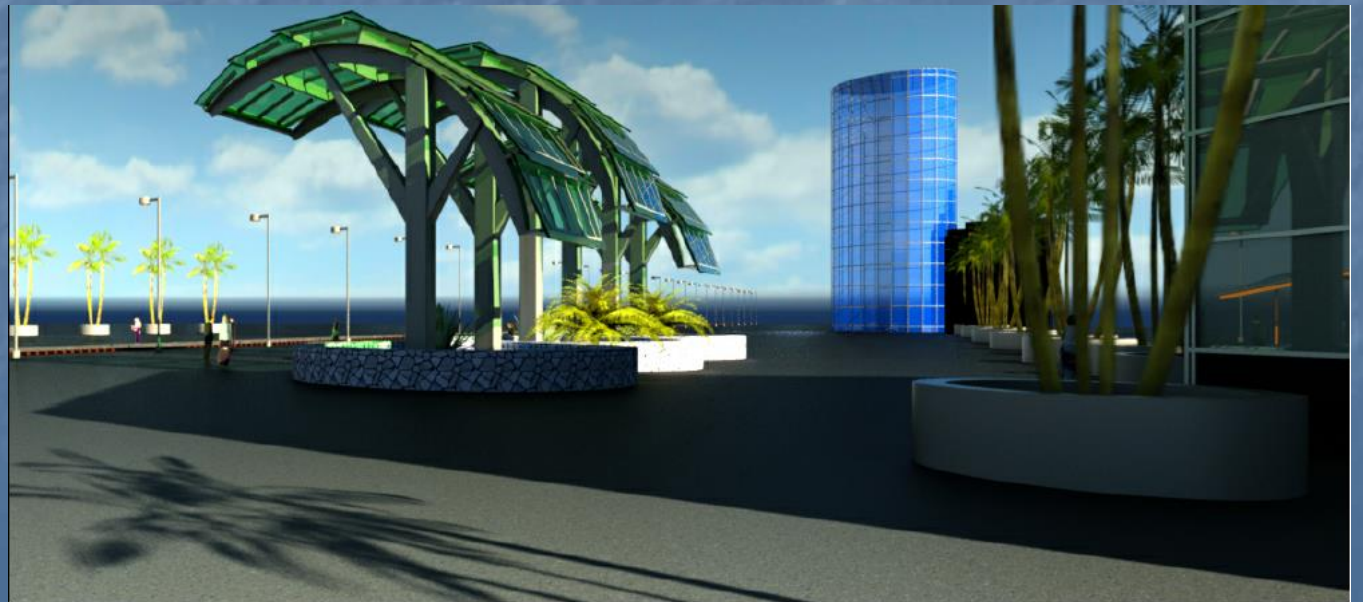
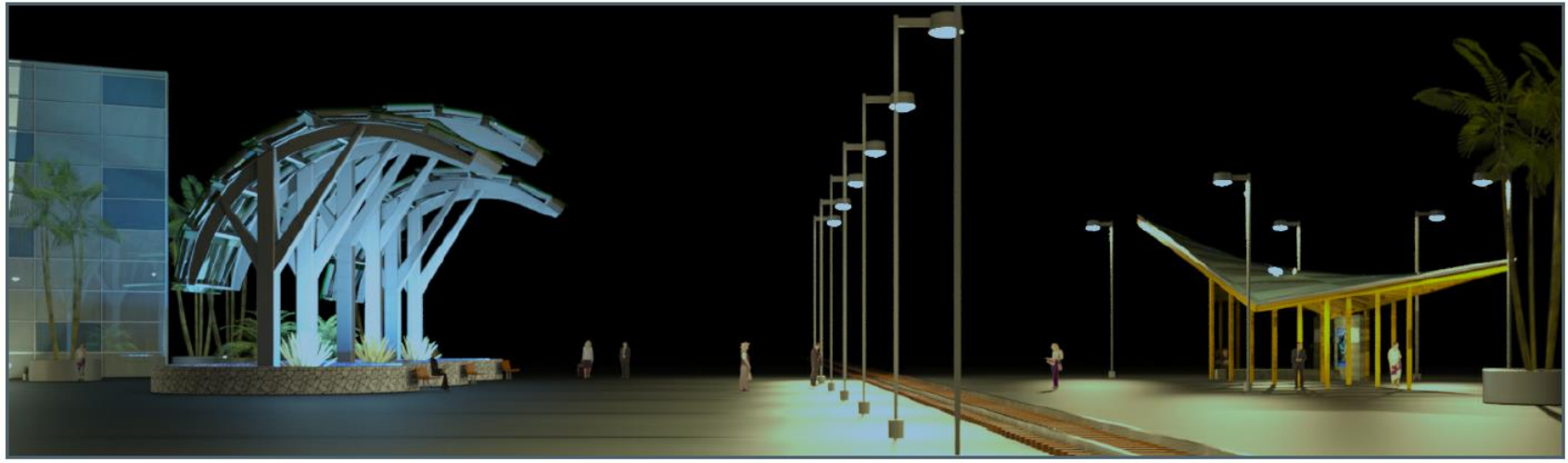


# Architecture 251

## Advanced Revit

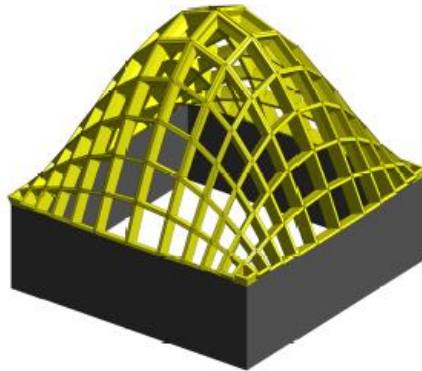
- Training in the advanced aspects of the Revit Program.
  - Creating advanced commercial models.
  - Families
  - Conceptual Models

# Architecture 251





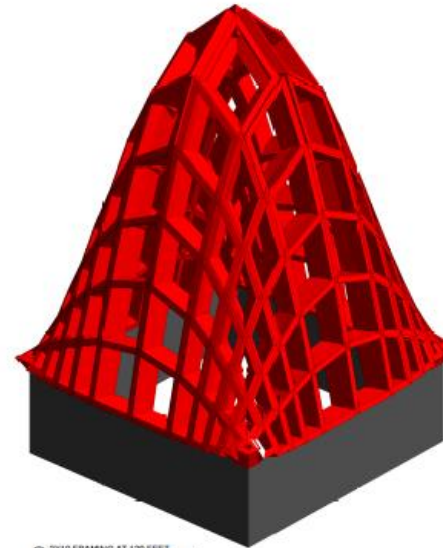
# Architecture 251



① 1x5 FRAMING AT 90 FEET

1x5 PANEL SCHEDULE			
FRAMING LENGTH	FRAMING WIDTH	FRAMING MATERIAL	Family and Type
1' - 0"	5' - 0"	1x5 FRAMING MEMBER MATERIAL	1-1 RECTANGLE FRAME MEMBER: 1x5 RECTANGLE
Grand total: 144			

1x5 FRAMING SHELL MESH SCHEDULE		
HEIGHT OF MESH	LENGTH OF MESH	WIDTH OF MESH
90' - 0"	90' - 0"	90' - 0"



② 2x10 FRAMING AT 120 FEET

2x10 PANEL SCHEDULE			
FRAMING LENGTH	FRAMING WIDTH	FRAMING MATERIAL	Family and Type
2' - 0"	10' - 0"	2x10 FRAMING MEMBER MATERIAL	1-1 RECTANGLE FRAME MEMBER: 2x10 RECTANGLE
Grand total: 144			

2x10 FRAMING SHELL MESH SCHEDULE		
HEIGHT OF MESH	LENGTH OF MESH	WIDTH OF MESH
120' - 0"	90' - 0"	90' - 0"

# Architecture 240

## Architectural Portfolio Development

- Create a portfolio of your work from other classes
  - Used for transfer
  - A collection of the student's best work.
  - Examples of student portfolios on Architecture Department Website

# Engineering 109

## Introduction to AutoCAD

- An introduction to the AutoCAD design software.
  - Mechanical Drafting and Design
  - Dimensioning
  - Introduction to 3D modeling
  - Architectural Drafting and Design
  - Creating symbols

# Conclusion

- What to do now...
  - Ask questions of our faculty.
  - Tour the Architecture Department at GCC.
  - Sit in on a class.
  - Visit our website at [www.glendale.edu/arch](http://www.glendale.edu/arch)

# Questions...

- Thank you and please feel free to ask questions.

- Contact Information:

- Dave Martin
  - Architecture Department Chair
  - Email: [dmartin@glendale.edu](mailto:dmartin@glendale.edu)
- Joseph Okeyo
  - Introductory Architecture Instructor
  - Email: [jokeyo@glendale.edu](mailto:jokeyo@glendale.edu)
- Paul Chiu
  - Advanced Architecture Instructor
  - Email: [pchiu@glendale.edu](mailto:pchiu@glendale.edu)
- Izabela Boyajyan
  - Interior Design Instructor
  - Email: [iboyajya@glendale.edu](mailto:iboyajya@glendale.edu)

