

ARCH 1230 PROF. LOO

DRAWING ASSIGNMENT DESCRIPTION

Note: Please refer to Assignment Calendar for specific submission requirements. The site drawing, standard layers, typical drawing standards, CTB file will be provided to you for use.

DESIGN CHALLENGE AND PROGRAM: Design an art gallery that is inspired by the Yale Art Gallery in New Haven Connecticut. The building shall contain the minimum program described below. The building will be designed to be a reinforced concrete structure. The exterior cladding strategy will be similar to the Yale Art Gallery in that 1 façade will be mostly solid in nature and 1 façade will be mostly glazed. The ornamental stair will be unique to each project.

Site Area:	16,000 Gross SF
Floor area:	12,500 Gross SF (Building shall be 4 stories plus 1 Basement level.)
Lobby area:	1,000 SF (Located on 1 st floor, include reception desk, sitting area)
Seminar rooms:	30'x30' (8 required. Located in Basement. Each to have 2 means of egress)
Egress Stair:	10'x20' (2 required located remotely from each other to serve all floors)
Elevator:	10'x10' (1 required located near lobby to serve all floors)
Ornamental Stair:	Connects 1 st floor and 2 nd floor. To be open not enclosed.
Toilet Rooms:	10'x20'. 1 Men's and Women's room per floor. Mens rooms to have urinals and stalls with lavatories. Womens rooms to have stalls and lavatories.
Columns:	18"x18" concrete columns
Walls:	
Partitions:	6" thick
Bearing walls:	12" thick concrete
Rated walls:	6" thick, hatch solid

General Areas of assessment used to grade assignments.

Assignment A – Floor Plans

- Completeness of Assignment (25%): All the required plans submitted
- Completeness of the Floor Plans (40%): All the program elements shown on the plans including column lines and numbers, columns.
- Craftmanship (20%): Proper layers, CTB file, line weights, line types, drawing standards being used
- Title Block and Annotations (15%): Title Block completed and edited, proper annotations and dimensions are used.

Assignment B – Structure

- 1st floor framing plan (15%): Structural framing strategy shown clearly and correctly
- 2nd floor framing plan (15%): Structural framing strategy shown clearly and correctly, including framing around vertical penetrations.
- Framing Isometric (15%): Structural framing strategy shown clearly and correctly
- Framing Details (15%): Details shown clearly and correctly; reinforcement, concrete,
- Calculations (10%): Calculations shown for framing strategy are clear and correct.
- Annotations, Drawing Titles, Title Block (10%): Title Block completed and edited, proper annotations and dimensions are used.
- Line weights, line types (10%): Proper layers, CTB file, line weights, line types, being used
- Craftmanship (10%): Drawing standards, composition, accuracy.

Assignment C – Building Sections

- 2D Longitudinal Section (20%): Section indicating structure, program spaces, ground plane, context
- 2D Cross Section (20%): Section indicating structure, program spaces, ground plane, context
- Isometric Building Section (20%): 2 Section indicating structure, program spaces, ground plane, context
- Annotations, Drawing Titles, Title Block (15%): Title Block completed and edited, proper annotations and dimensions are used.
- Line weights, line types (15%): Proper layers, CTB file, line weights, line types, being used
- Craftmanship (10%): Drawing standards, composition, accuracy.

Assignment D – Building Elevations

- 2D South Elevation (20%): Elevation indicating structure, exterior cladding strategy, fenestration, ground plane, context
- 2D West Elevation (20%): Elevation indicating structure, exterior cladding strategy, fenestration, ground plane, context
- Isometric Building Elevation (20%): Isometric indicating structure, ground plane, context
- Annotations, Drawing Titles, Title Block (15%): Title Block completed and edited, proper annotations and dimensions are used.
- Line weights, line types (15%): Proper layers, CTB file, line weights, line types, being used
- Craftmanship (10%): Drawing standards, composition, accuracy.

Assignment E – Wall Sections and Details

- 2D Typical Wall Section, Plan and elevation for each cladding strategy (20%): Typical Section, Plan and Elevation indicating structure, exterior cladding strategy, floor to floor relationship from basement to roof
- 3D Section (20%): 3D isometric indicating structure, exterior cladding strategy, floor to floor relationship from basement to roof
- Details (20%): Details indicating cladding strategy within each drawing
- Annotations, Drawing Titles, Title Block (15%): Title Block completed and edited, proper annotations and dimensions are used.
- Line weights, line types (10%): Proper layers, CTB file, line weights, line types, being used
- Craftmanship (15%): Drawing standards, composition, accuracy.

Assignment F – Stairs

- Accuracy/Dimensions (25%): Drawing to indicate accurately a stair that works with the building design and indicates appropriate details
- Calculations and Annotations (25%): Calculation and annotation accurately support stair design
- Drawing Coordinations (25%): Drawing are coordinated with other drawings, calculation, and building design
- Line weights, line types drafting craftsmanship (25%): Proper layers, CTB file, line weights, line types, Drawing standards, composition