Residential planning
Planning

- Project starts with an assessment of the needs of the users and an understanding of their peculiar habits

- Key elements
  - Dividing into active and quiet spaces
  - Zoning functions in relation to the surrounding context
  - Efficient and functional circulation
  - Maximize furnish ability in individual spaces and their elements
  - Practicing economy
Exercise - An efficient small house

Key elements

• Dividing into active and quiet spaces
• Zoning functions in relation to the surrounding context
• Efficient and functional circulation
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• Practicing economy
Entry spaces - Foyer

- A good entrance greets (doesn’t matter the size)
- Provide a functional transitional space
- Serve as a distribution point for traffic leading to various zones of the house
- Is undesirable to enter directly into the living room or walk to it to get to other areas of the house
- View upon entering
  - Upon entering, one may face a wall
  - May offer partial glimpse of the main public area (draw people in)
  - Is a transition space from the outside to the inside

- A place for
  - coat closet
  - Take off and shoes
Living rooms

- A good living room is comfortable, versatile, and pleasant
- Serves as the heart of most homes
- Desirable attributes
  - Comfortable, well-grounded seating
  - A focal point
  - Visual connections to other interior spaces
  - Views to the outside
  - Natural lighting
  - A good room-to-contents proportion
  - An orderly, uncluttered appearance
  - Good traffic patterns
Standard living room furnishings and sizes

- Sketch out one of each furniture
- \( \frac{1}{4}'' \) scale (use scale for dimension but freehand sketch the furniture)
Dining room – eating area

- Informal dining often adjacent to the kitchen area
- Formal dining often separate from kitchen but adjacent to living area
Secondary dining

- Frequently referred to as breakfast nook or breakfast room
- Often take form of alcoves or nooks
- Sketch out one of the layout

Dimensions for small tables at nook and corners
Bedroom

- Are more than private sleeping places
- Places where we get dressed, do homework, read, and dream
- Includes a bed, nightstands, a closet, a dresser, desk, additional seating
- Space is provided on at least one side of the bed
- Room for the foot
- Should have at least one window
- The bedroom layout revolve around bed itself
Bedroom furniture and sizes

- Sketch out a queen bed
- Show all the details and provide good graphic
- ¼” scale (use scale for dimension but freehand sketch the plan)
Kitchen – one wall galley

- Is a place for the storage, preparation food, cleaning of cooking equipment and dishware
- Sketch out the one wall galley kitchen below and provide all the adjacent counter spaces (do not show the overhead cabinet)
- Show all the details and provide good graphic
- \(\frac{1}{4}\)” scale (use scale for dimension but freehand sketch the plan)
Adjacent counter space

- **Min. requirement for adjacent counter space**
  - Sink
    - Needs at least 24” to 36” on dishwasher side
    - 18” to 30” on other side
  - Stove/range
    - Needs at least 15” to 24” either side
  - Refrigerator/Microwave
    - Needs at least 15” to 18” on handle side
  - Oven
    - Needs at least 15” to 18” on one side

- **Standard appliances sizes**
  - 24” for separate microwave oven
  - 34.5”h x 24”d x 24”w under counter refrigerator
Kitchen clearance behind counters and work areas
Bathroom

- Shower stall 32” x 32”
- Counter 30”-36”h x 21”-22”d
- Toilet 15” w (seat) x 28 -30” (tank) x 26”d
- Pedestal Sink 20”w x 20”d x 30”h
 Sketch out one of the compact bathroom below with shower stall

 Show all the details and provide good graphic

 ¼” scale (use scale for dimension but freehand sketch the plan)

D. Approximately 3'-4" × 6'-0" (102 × 183)

E. Approximately 4'-0" × 5'-6" (122 × 168)

F. Approximately 4'-0" × 4'-0" (122 × 122)
Storage

- Closet 24” bulky items
- Sketch out both of the storages
- Show details of the garments and provide good graphic
- ¼” scale (use scale for dimension but freehand sketch the plan)
Closet

- Maximize furnish ability in individual spaces and their elements