



ARCH 2330

BUILDING TECHNOLOGY III

VI

Assignment Name:

Entrance Lobby Core & Service Entry Core Studies (SK-104)

Computer Program(s):

AutoCAD, Revit, Web Browser and Blackboard

Student Learning Objectives:

Upon successful completion of this assignment, the student will:

1. Develop an understanding of the components of an entry lobby for an academic building.
2. Develop an understanding of the components for layout of service entry and loading dock.
3. Construct drawings of building entry & service entry core (stair/elevator) studies.
4. Construct drawings of service entrance / freight elevator core / loading dock studies.

Student Skills Learning Objectives: (AutoCAD)

Upon successful completion, in addition to skills required by previous lessons the student will:

1. Be able to externally reference files and images
2. Be able to add annotation and dimensions

Assessment:

To evaluate the student's achievement of the learning objectives, the professor will do the following:

1. Evaluate the student's building entry drawings & service entry drawings.
2. Evaluate completeness of drawings including appropriate programmatic requirements. (vestibule, turnstiles, security/information desk, freight elevator, loading dock, turning radius for trucks)
3. Evaluate sheet layout and appropriate use of annotation including titles, notes and dimensions.
4. Drawing will be evaluated on its own and as part of the AutoCAD drawing set submission.

Project Description:

Complete two separate study sequences for potential building entries and service entries. Work to develop 2 to 3 options in each of these categories. Develop elevator core & stair combinations and locate these as appropriate to each of the studies.

The building is likely to require the following:

1. Freight elevator or service access to all floors (basement to top floor) of the laboratory building, the main levels of the atrium & gym.
2. Assume escalators are located in the entry space adjacent to the atrium.
3. For the laboratory/teaching facility, four (4) passenger elevators are required to travel from the entry level to the top level with two of these 4 extending down to the basement level.
4. The Gym will require an elevator connecting the lower locker to the main level and mezzanine.

Process:

1. As a team Identify appropriate programmatic & dimensional requirements for main entry & service entry components. All designs must comply with egress, ADA and building codes.
2. As an individual draw layout options showing plan, section and interior elevations as needed.
3. Provide two to three options for each entry type and organize these on a sheet.
4. Post completed sheet as a pdf and as a drawing file by the assigned deadline & add description.

References:

1. Time Saver Standards