NEW YORK CITY
COLLEGE OF TECHNOLOGY
THE CITY UNIVERSITY OF NEW YORK

DEPARTMENT OF ARCHITECTURAL TECHNOLOGY

ARCH 2330 **BUILDING TECHNOLOGY III** **March 2013**

Assignment Number/Name: **rooms/spaces/functions**

Computer Program(s): AutoCAD**, Revit**, Web Browser and Blackboard

Student Learning Objectives:
Upon successful completion of this assignment, the student will:

Assemble a list of rooms, spaces and functions to be used in their project inclusive of, but not limited to:

Gym
1. Basketball
2. Batting cages
3. Dance/yoga studio
4. Lockers
5. Multi-purpose field
6. Rock climbing
7. Showers, sauna, toilets
8. Tennis
9. Volleyball
10. Weight room

Core
11. Commercial space / bookstore?
12. Elevators
13. Fire suppression (not a space)
14. Hallways
15. Loading dock
16. Loading storage
17. Maintenance room
18. Mechanical
19. Outdoor gathering space
20. Passenger & service elevators
21. Restrooms
22. Shafts
23. Stairs
24. Storage
25. Surveillance (not a space)
26. Water fountains (not a space)
27. Windows (not a space)

Lobby
28. Cafe
29. Entrance
30. Escalator
31. Help center
32. Kiosks (walk through for entry)
33. Monumental stair
34. Security (not a space?)
35. Student lounge
36. Theatre

Academic building
37. Class rooms (25,30 students)
38. Faculty lounge
39. Labs (research/chemical)
40. Lecture hall
41. Lecture rooms
42. Library
43. Lunchroom
44. Office, conference room
45. Office, dean's
46. Offices, administrators
47. Offices, faculty
48. Planetarium
49. Research room
50. Shop

Additional optional spaces
51. Club rooms
52. Day care
53. Dorm
54. Health center
55. Parking
56. Screening room
57. Studio space
58. Teaching room
59. Tutoring
60. Writing center

Student Skills Learning Objectives:
*Upon successful completion, i*n addition to skills required by previous lessons *the student will:*

1. Have assembled design criteria for each of the spaces. Some of those criteria will be but are not limited to: room sizes, space requirements, egress requirements, furniture requirements, fixture requirements, and ventilation requirements.
2. Be able to apply those requirements to the specifics of the rooms, spaces and functions.

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

1. Evaluate the student's matrix of requirements
2. Evaluate Graphic presentations of those requirements.

Project Description:
The rooms/spaces/functions sheet will be part of the final submission of a set of AutoCAD based drawings which will be used as the foundation for the design development as well as construction documents created in Revit.

Process:

1. Assemble a list of Rooms/Spaces/Functions with respect to the facility/facilities.
2. Create scaled graphic representations of the rules/requirements/needs/codes with respect to those Rooms/Spaces/Functions.
3. Create written representations of the rules/requirements/needs/codes with respect to those Rooms/Spaces/Functions.
4. Post completed sheet as a pdf and as a drawing file by the assigned deadline & add description.