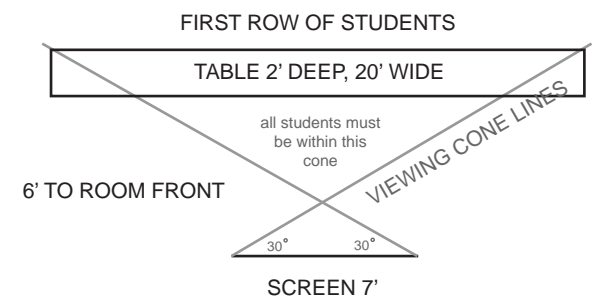


SAMPLE ROOM DESIGN 1 (following classroom design procedure PDF)

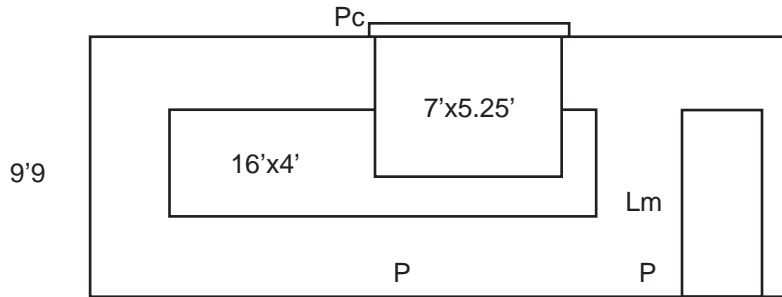
1. Want a LECTURE (rows) STYLE ROOM for 40 persons
2. 40 capacity x 1.5 NASM/student = 60 NASM (or 650ft²)
3. room approx 7m wide by 8m deep (or 24' x 27')
4. room depth of 26' / 4 = approx 7' (projected image width)
5. 7' x 0.75 = approx 5'3
6. need clear ceiling height of 10'3 (5'3 + 4'6 from floor + 6" for screen housing)
7. Done. Need room 23' wide x 26' deep with a 7' screen and 10'3 of clear ceiling.
If the architect can't give me 10'3 of clear ceiling, inset the screen housing in a cove use 9'9 clear ceiling.

REFINE

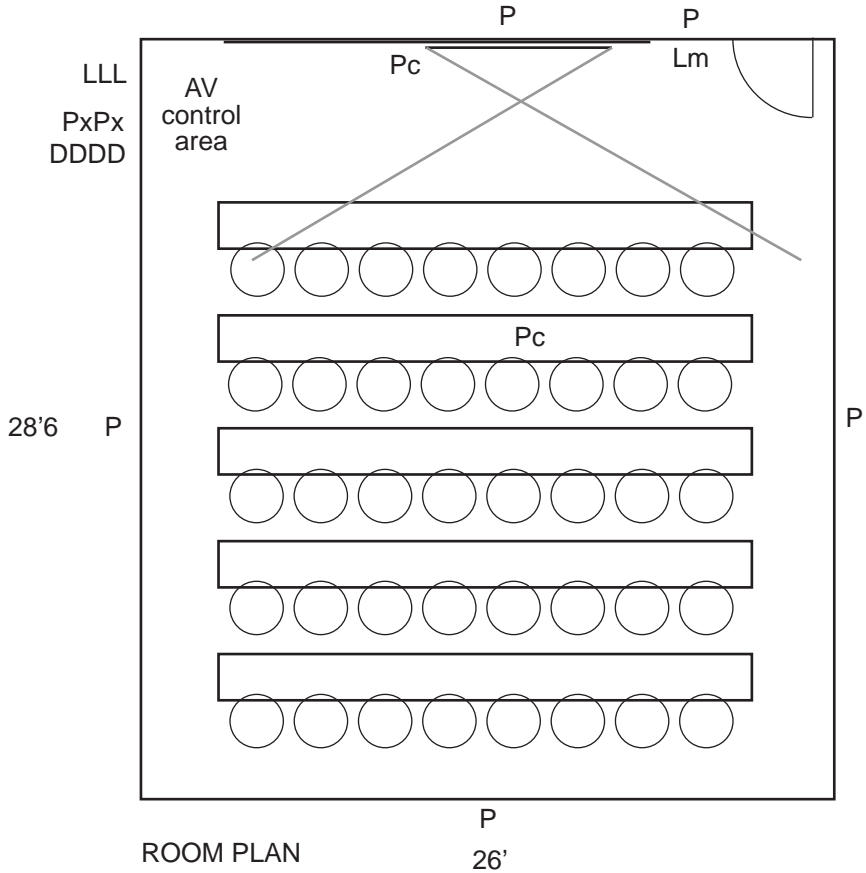
8. 40 students at loose tables that are 24" deep. Each student needs 2'6 width. Let's say 5 rows 8 students each. Each table is 24" deep + 2'6 gap, meaning 4'6 deep x 5 rows. That's 22'6. Add 8' for instructor. That's 30'6. Room width is 8 students x 2'6 = 20'. Add 3' each side for perimeter circulation. That's 26'. So our room is 26' x 30', not 24' x 27' as anticipated. It's a small room, so we agree to trim the instructor depth to 6' to save space. We're now at 26' x 28', or 728 ft², or 68 NASM.
9. The back row only has 2'6 to the wall - we add 6" to make an even 3' circulation around the whole room. The room is now 26'x28'6.
10. Sketch viewing cone. First row is easily within the cone.
- 11, 12, 13 - all sketched on next page
14. The exterior wondows are unresolved.
Other than that, we have an economical room plan that satisfies every performance criteria. It's simple - but few legacy rooms will compare.



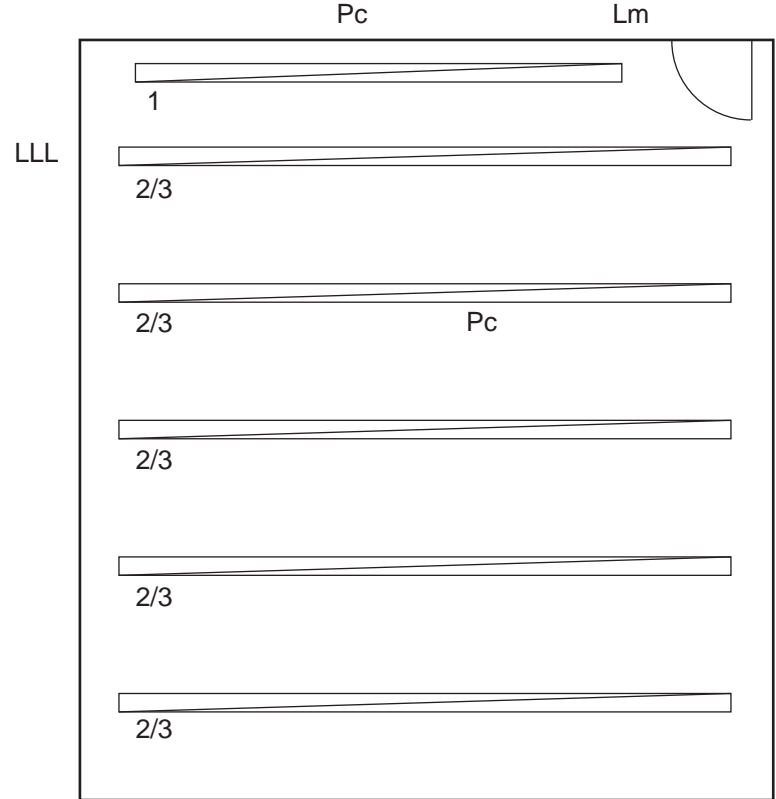
Screen was moved over as far as possible (keeping all students in viewing cone) to allow maximum blackboard showing with screen down (a particular concern for Math professors)



- P Duplex wall power outlet
- Pc Power in ceiling for projector (on Px)
- Pc Power in ceiling for power screen (on Px)
- Px Separate power circuit for AV
- L Light switch (LLL=3 switches)
- Lm Master on/off all lights (one switch)
- D Data - OSM used 4 data lines
- 1 Blackboard wall washers
- 2/3 Main room banks. 2-level fixtures



ROOM PLAN



LIGHTING PLAN (REFLECTED CEILING)