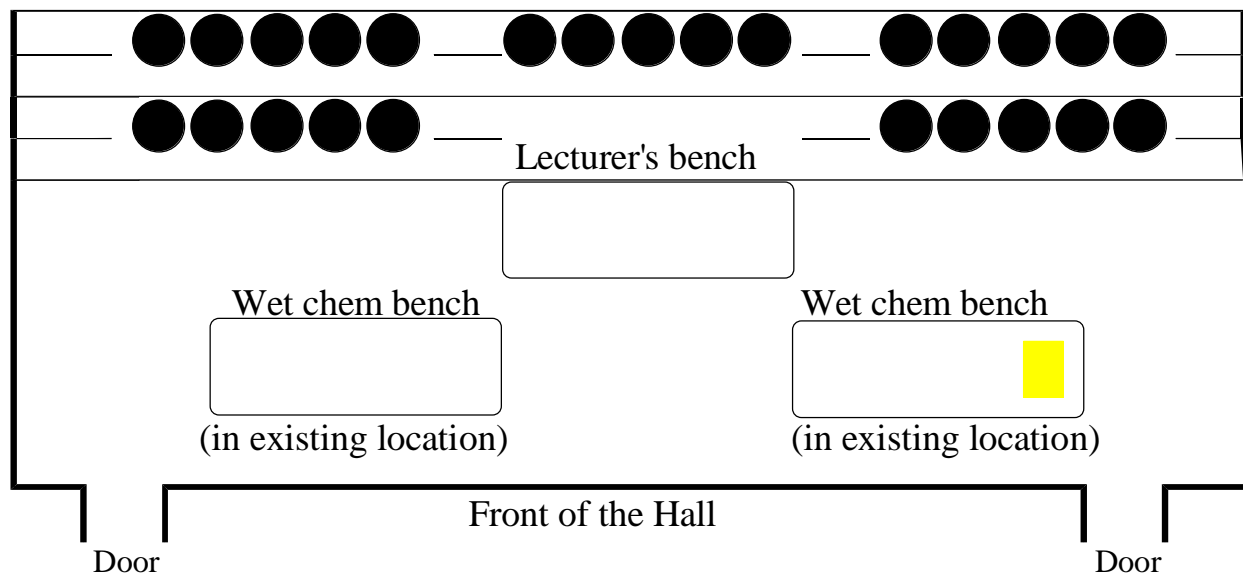
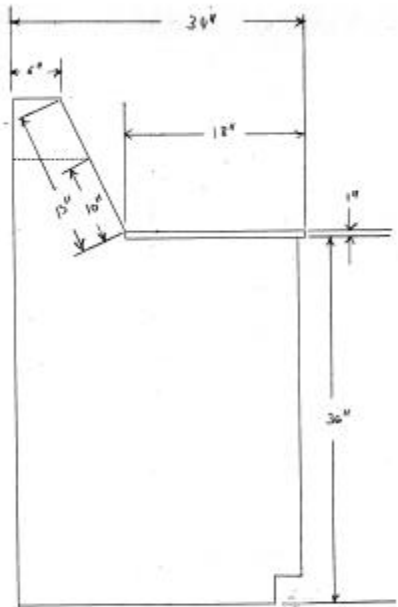


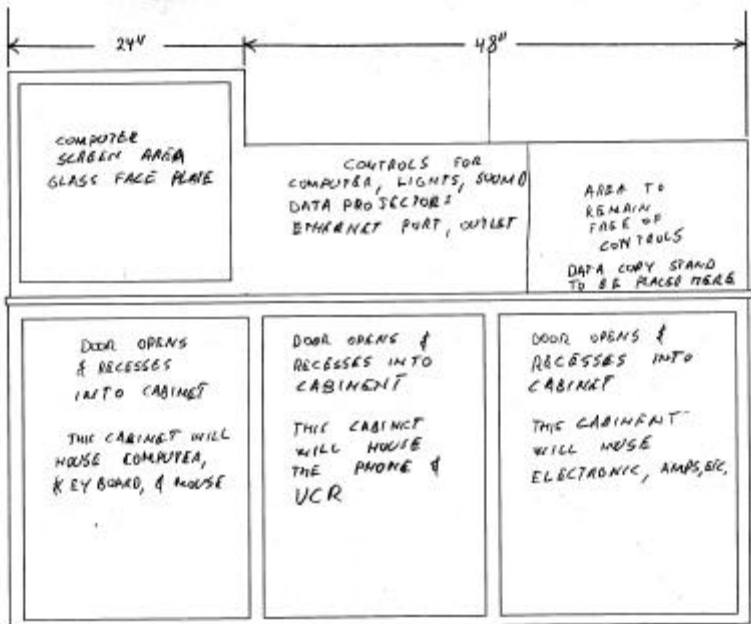
Lecture Hall 12:



1. An important concern here is to clearly separate the wet chemistry bench from the electronics bench which also simultaneously eases the problem of "residue and spills" left from the previous lecturer's demos interfering with the next lecturer's use of the desktop for notes and electronic device usage. Therefore, divide the existing Lecturer's Bench into 3 separate benches as shown in the above Figure.
2. All surfaces of all benches to be acid resistance black Formica.
3. The wet chemistry benches should be 8-feet in length, with new or repainted cabinets and should be identical in height to existing demo bench.
4. The two wet chemistry benches are to be equipped with air and gas jets and with at least 8 electrical outlets each.
5. A sink is needed in at least one of the wet chemistry benches.
6. Each wet chemistry bench needs to be wired for a portable video camera (to be used to project demonstrations through the data projector) with the signal being routed to the lecturer's bench.
7. The lecturer's bench will contain all electronics and all controls and switches and adjustments (a media closet in the far corner of the lecture hall should be eliminated and all audio-visual units stored in the Lecturer's bench).
8. The lecturer's bench should be permanently mounted against the first riser.
9. The exact contents of the audio-visual equipment in the lecturer's bench, and the controls needed will be elaborated in a later report. However, the major design of this bench is established here and is based on what is most convenient for the lecturer (i.e., looking at/towards the students rather than down; not having to stoop to adjust controls in mid-lecture; not having to walk to different places to control playback units or light settings, etc.).
10. The side cross-sectional view of the 6-foot long lecturer's bench is shown in the next figure – the angled part will house a LCD monitor for the PC.



LECTURE TABLE SIDE VIEW



LECTURE TABLE FRONT VIEW

11. The lecturer' view of the 6-foot long lecturer's bench is shown in the above figure. The exact details of the electronics and controls will be specified elsewhere. The conceptual details are:

- a. The top left contains a glass enclosed LCD monitor. (The keyboard and mouse will be housed on the top of counter immediately in front of this monitor – the keyboard and mouse will be stored in a drawer and connected easily accessible connectors when the lecturer needs them).

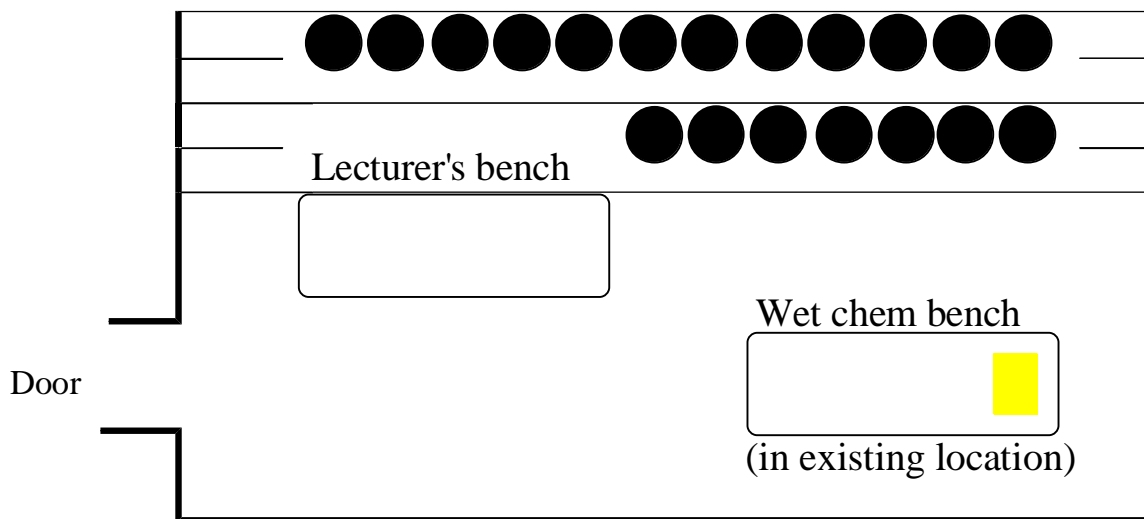
- b. Also above the countertop and to the right of the monitor, is a control panel for all switches and light controls (details to be specified elsewhere).
 - c. The most right hand portion of the lecturer's bench is to be open and of sufficient size to comfortably support a Video Copy Stand.
 - d. The cabinet below the counter top and at the left edge will house the computer and keyboard and mouse storage areas.
 - e. The center cabinet will house electronics units yet to be specified (including the phone, and the VCR playback unit).
 - f. The right cabinet will house the speaker system volume controls and the amps.
 - g. Looking down from above: the left portion of the countertop (i.e., in front of the LCD monitor) will be used to support the lecturer's portable computer in lieu of using the installed PC.
 - h. The center part of the countertop will support the lecturer's notes.
 - i. The right portion of the countertop will support the video copy stand.
12. Some additional details...
- a. All items in the lecturer's bench must be secure enough to prevent theft. This includes the copy stand which will sit on the top of the bench. Several ideas that could be considered are a roll top cover or a fiber optic security cable. We strongly recommend that a security camera be mounted to always monitor the lecturer's bench.
 - b. The left and center cabinets should be keyed to the front office key so that all faculty have access without requiring an additional key. The right hand cabinet should be keyed to the building master so that only qualified persons can adjust the sound system.
 - c. The video signal from the portable camera used at the wet chemistry benches must feed through the controls on the lecturer's bench so the image can be displayed as desired.
 - d. All lecturer adjustments should be accessible from the one control panel, including raising and lower the chalkboards.

► What is the preferred **lecturer's workspace**?

Lecture Hall 12A and 12B:

1. The Lecturer's (electronics) bench in all three lecture halls should be identical in design. The audio-visual equipment will differ only slightly between these three lecture halls (those details are provided elsewhere). Again, a separate media closet is not needed in Lecture Halls 12A and 12B.
2. The wet chemistry benches in 12A and 12B should be identical to those in 12 – the only difference is that there is only one wet chemistry bench in 12A and 12B and two in 12. (If a lecturer needs additional wet chemistry space, the department should provide a solid table that can be wheeled into 12A or 12B with the demo already installed upon it).
3. If possible, the wet chemistry bench should be the inside wall of the lecture hall.
4. The following drawing depicts Lecture Hall 12A; 12B would be similar – but the mirror image.

Back of the Hall
etc



Front of the Hall