

Chem 628 projects:

Due dates:

November 21: All students: turn in short description of your project, along with a schematic of what you intend to build

November 23 lecture: Students with last name beginning with A-L, give <5-minute presentation on your project

November 28th lecture: Students with last name M-Z, give <5 minute presentation on your project

December 16 (or preferably before): All projects due. All projects must be easily “testable”, meaning that all inputs and outputs need to be labeled, power supply inputs must be made easily accessible, etc. Each project must be accompanied by a short writeup describing its function, a nicely-drawn schematic, a hard-copy of the printed circuit-board layout, and if possible, some test results showing that it works.

Minimum requirements:

Unless I have told you specifically otherwise, all projects must have a minimum of 2 integrated circuits. All projects must be made on a printed circuit board and must be completely enclosed in an appropriate metal or plastic box. In essence, the projects must be completely functional, ready-to-go.

Ideas:

Ideally, it is good to choose something that you will use in your research. Some other ideas include:

- Simple AM radio (my “pet project”... I can give you lots of ideas here)
- 3-electrode potentiostat (Rob’s pet project !)
- Current-to-voltage converter (always useful...)
- Simple FM intercom

There are lots of web sites that have interesting ideas.

http://dmoz.org/Science/Technology/Electronics/Reference/Circuit_Archives/

If you’re having trouble, contact me.