

CHEMISTRY 316
Scientific Glassblowing
Course Outline

Call #: 13479-01

Time: Tu Th 1:30–4:00

Units: 2

Room: PS 853

Instructor: Gary Coyne

Grade: based on 50% tests and 50% glasswork.

General class structure:

Tuesday:

Homework that was handed in on Thursday is returned.

≈ ½ – 1 hr. lecture/demonstration on glass, glass science, or laboratory equipment.

Review of past glass blown items.

Teach new seal and/or new application of a seal.

Thursday:

≈ ½ hr. quiz on material from Thursday.

Review of glassblowing seal.

Use the rest of the class time to do your homework.

Homework:

Without constant repetition, it is impossible to gain proficiency in the hand manipulation of glass. Points are therefore used as a work incentive.

Homework should be done in class. Students seem to have this belief that they should be able to do in several weeks what it has taken me over 30 years to perfect. I do not expect this and realistically neither should you. What is expected is improvement. Do not feel that you need to hand in perfect glassware from the start—it may happen during these 10 weeks, it will not happen right off. While you can do work outside of class (see below), you should be able to do all your work while in class.

Room availability:

1. You may use the room during the hours the Health Center is open (M-Th. from 8:30 A.M. to 12 P.M. and from 1 P.M. to 6 P.M. and Fri. from 8:30 A.M. to 12:30 P.M.) AND the Chemistry Dept. is open.
2. You may use the room as long as someone else is in the room with you.
3. The room is kept locked, but may be opened by request.

Text:

The text for the course is “The Laboratory Companion, revised edition.” It is available in the bookstore.

Equipment:

All equipment will be supplied. If you are interested in equipment (for your own use) or recommended books, see the instructor.