1. Problem-Solving

(a) You are responsible for all the problems. No set number will be assigned each day. Just keep working on them.

(b) You may not use any sources. In particular, you may not look at books or the internet. You may not ask anyone else (including class members) anything. In other words, the solutions must proceed entirely from your own head.

(c) **Collaboration.** Collaboration on problems is not allowed. Occasionally there will be problems on which the class is “stuck.” After a certain period of time, collaboration will be allowed on these problems. Also, there will be a group project near the end of the term.

2. Class Presentation

(a) During class sessions, members of the class will present solutions to the problems at the board.

(b) The presenter of each problem will be chosen at random. If the chosen presenter cannot present a solution, we will select an alternate presenter at random. We will continue searching for a presenter until someone can present a solution or we decide that it is advisable to put the problem aside for more “thinking time” and/or for collaboration.

(c) Those not presenting a problem are responsible for understanding the presentation. That means that normally many questions will be asked by the audience. The presenter is responsible for answering these questions. If a student does not ask a question, the instructor will assume that the student understands the solution completely.

(d) Occasionally, the instructor will ask questions of the presenter or of those not presenting. These questions are for the purpose of making sure that everyone understands the result being presented.

3. Written Solutions

(a) Each day several of the problems that are presented will be selected to be written up. At the next class period, one or two of these will be collected for grading.

(b) It is perfectly acceptable to write the solutions after seeing them presented in class. However under no circumstances may notes be taken in class. All solutions must be written from memory (which should be easy if the solutions are understood).

(c) There will be occasional quizzes at which students will be expected to write solutions to one of the problems presented the previous day.

4. Other Important Notes

(a) Attendance is mandatory. Any absence should be for a weighty reason and should be requested in advance of the absence. Attendance includes promptness.

(b) The grade is based on three components: oral problem presentation in class, written solutions to problems including quizzes, and productive participation in the activities of the class. Performance in each of the three areas must be satisfactory to receive a grade of S.

(c) There will be no formal class on Monday, January 22, as you will be expected to be preparing your group presentation to be given on Tuesday, January 23.

(d) A course website contains the latest versions of all class handouts as well as other useful information. The URL is [http://www.calvin.edu/~stob/courses/mw81/I07/](http://www.calvin.edu/~stob/courses/mw81/I07/)