Do not download or open the exam until you are ready to take it.

Please write the exam in a Blue Book (available in the bookstore), and make sure your name and return mail-code is clearly written on the front of each blue book you use.

You are offered four essay-type (7 points each) and four calculational problems (10 points each) to choose from. You should answer any three of the essay problems, and any three of the calculational problems, for an exam total of 51 points. The exam should consist of 6 printed pages, the last 3 of which contain the problems.

The honor code is in effect. Please follow all of the following instructions regarding this exam. If you feel unclear about any of these instructions, you are required by the honor code to ask for clarification.

- You may not communicate with any other person (except Profs. Phinney or Steidel) about the contents of this exam, until both you and the other person (if taking Ay 127) have submitted your exams.

- The exam must be completed in a single sitting.

**The time limit is 4 hours.**

- A non-programmed calculator is permitted, and recommended. Computers and related programmable devices are not permitted.

- During this exam, you may refer to your own class notes (written by your own hand), the course homeworks from this year and the textbook (Serjeant). You may not refer to any other documents, paper or electronic.

- The final exam score will account for 30% of your grade.

Your completed exam should be handed in person either to Sterl in 316 Cahill or to JoAnn Boyd in 321 Cahill, by 5:00pm, Wednesday 6 June, 2012.