This Computer Activity has you fit U. S. census data to discrete and continuous Malthusian growth models. The activity is strongly based on the example for *E. coli* given in lecture. You are to work on this activity in small groups and upload your written submission to **Gradescope** by **Fri. Jan 28 at Noon**.

Your group will be **3** or fewer students, and the group will receive a single grade. It follows that all of you will want to check over and understand all the techniques employed in acquiring your answers. Since you will be working as a group, you need the following:

1. Exchange information for how to connect/communicate with each other.

2. Divide the labor fairly among the group to reduce your total workload, but meet as a group before the deadline to discuss what each party has accomplished and understand the programming and modeling skills learned.

3. Agree on your submission and upload it to **Gradescope**.

4. Should there be unresolvable issues, then contact me (with plenty of time before the Activity is due), so that alternative arrangements can be made.

Below is a list of the Computer Activity problems, which require written answers, graphs (Excel and MatLab), and discussions. Only enter into **Gradescope** the answers specifically requested, and discussions should be complete sentences/paragraphs succinctly addressing the specific questions.

a. Graph, model, LSSE, and discussion. (6pts)

b. Graph, model, LSSE, and discussion. (6pts)

c. Graph, model, LSSE, and discussion. (6pts)

d. Graph, model, LSSE, and discussion. (6pts)

e. Discussion, expression, and reasoning. (4pts)