

**ESRP 310 Fall 2007, 1st Lab**  
**SLIC room available 3:00 to 5:00**

Students will reproduce the Stella images shown in Appendix C, starting on page 320. The goal is to check that you can operate the software by recreating images in the book. (There is no need to turn in results.)

Printing results can sometimes be troublesome,  
so it's wise to print a model early in your session, just to verify that the printer works.

**Agenda:**

Figure 1. (p. 320) Stock and Flow Diagram

Figure 2. Stock and Flow Diagram with ? in view.

Figure 3. Stella Equations

Figure 4. Model with a Time Graph and a Table Pad Pinned to the Screen.  
(This would be a good example to test the printer.)

Figure 5. Similar to Figure 4 except the graph is closed and the table is arranged vertically and the precision of the tabular results has been changed.

Figure 6. Bank balance model.

Figure 7. Bank balance model with results pinned to the screen.  
Be sure to use the \$ format to display financial results.

Figure 8. No need to reproduce; this figure shows the assumptions for the interest rate

Figure 9. New bank balance model with the interest rate depending on the size of the bank balance. **The ~ indicates that a “graph function” is used to set the interest rate.**

Figure 10. Equations for the bank balance model.

Figure 11. Time graph of simulation results for the bank balance model.

Figure 12. **Scatter graph** of results for the bank balance model.

Figure 13. Comparative graph showing results of a **sensitivity run**.

**Stella Run Time:** to demonstrate the operation of “run-time” version of the software:

Look for the File, Save command to save your results to the hard disk --- you'll see that you can build and simulate models, but you won't be able to save them.