

# Manufacturing Curriculum:

Contextualized Science  
Module

Supplemental Resources from  
the Adult Education Field

# Statewide Manufacturing Curriculum: Contextualized Science Module

For use with **Outcomes #1, 2, 3, 4, 5, 6, 7, 8, 9, 10**

The Science Module is great for the class. I use the Textbook and Workbook for teaching and doing any of the experiments. Here is all of the information for ordering each Title.

[Physics: Concepts and Connections, 5/E](#) Hobson

ISBN-10: 0321661133 • ISBN-13: 9780321661135 ©2010 • Paper, 496 pp

[Laboratory Manual for Liberal Arts Physics, 2/E](#) Hobson, Baehr & Swallow

ISBN-10: 0131011073 • ISBN-13: 9780131011076 ©2007 • Paper, 272 pp

I have included a list of materials you can order to do the various experiments in class. I ordered materials for three groups of three through the American Science and Surplus Website and Walmart.com and we spent about \$500 dollars.

Submitted by William G. Kuban, Prairie State College

## **Science Project Equipment List**

### **Newton Lab**

1. Dozen Golf Balls
2. Three Tennis Balls

### **Static Lab and Kinetic Lab**

3. Six wooden Blocks
4. Three Eye Hooks
5. Three Spring Scales
6. Ball of String

### **Air Pressure Lab**

7. Three Four ounce Glasses
8. 4X6 index cards
9. Three rectangular Bowls with sides 5" tall
10. Three Hot Plates
11. Three Pair Insulated Gloves for Heated objects

### **Work and Power Lab and Temperature Lab**

12. Three Simple Meat Timer/Thermometers with Probes

### **Heats of Various Materials**

13. Several Metal Specimens

### **Heat Engines and Refrigerators**

14. Large Rubber Bands
15. Small Rubber Bands
16. Three Small Hairdryers
17. Rectangular Masses (steel or iron)

### **Characteristics a Wave**

18. 25" of Rope (inexpensive)

## **Series and Parallel Electrical Circuit Labs**

19. Three Multi Meters
20. 100-200 $\Omega$  Resistors
21. 500-1000 $\Omega$  Resistors
22. Three 12-20 volt Power Supplies
23. Wires with Alligator clips