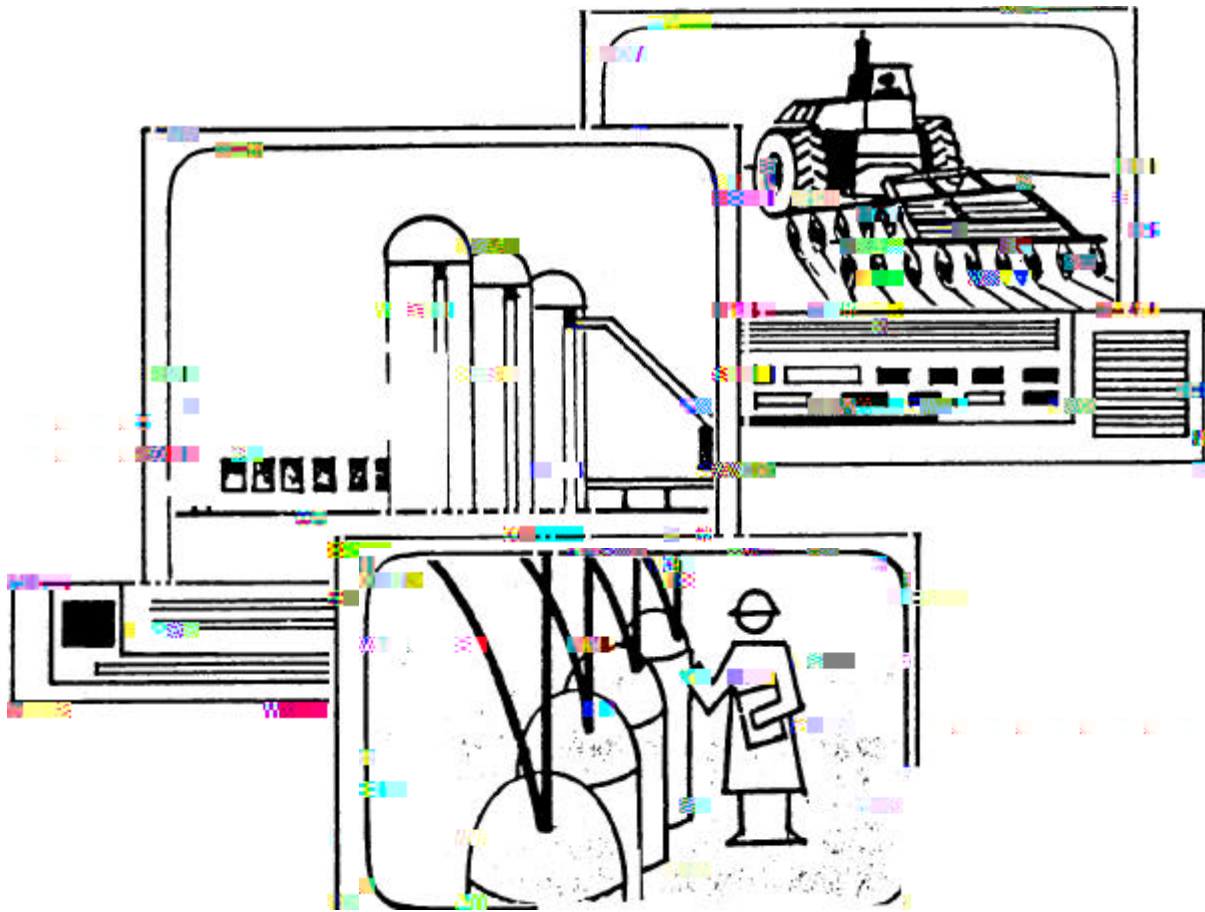


# AGRICULTURAL EDUCATION EQUIPMENT AND FACILITIES GUIDE



The University of the State of New York/The State Education Department  
Career and Technical Education  
Albany, New York 12234

2001

---

---

---



13. Plant and animal models
14. Soil pH test kits
15. Soil auger

B. Advanced Agricultural Skills

A second unit in agriculture instruction is required for each cluster in Advanced Agricultural Skills. One-half unit is to come from modules identified as required for all students in the cluster. The second half-unit in Advanced Agricultural Skills will be made up of modules selected by the student from the list of modules provided for each cluster. The modules selected will determine the equipment needed.

Required modules for Advanced Agricultural Skills equipment needs:

- I. Modules common to all three clusters.
  - A. Preparation and Analysis of Financial and Operational Records, AG-3102  
Calculators, (hand held)
  - B. Computer Applications, AG-3330  
Computer w/disk drive and printer (128 K or more)  
Several computers are desirable for this module.
2. Additional modules for Agricultural Business Management and Service Occupations Cluster
  - A. Performance of Basic Skills in Verbal Communication, Reading and Writing in Agricultural Business, AG-3008  
Tape recorder with microphone  
Typewriters
  - B. Salesmanship Techniques and Supply and Demand, AG-2052  
Cash register (electronic preferred)  
Scales  
Calculators (hand held)
3. Additional modules for Natural Resources and Ecological Occupations Cluster
  - A. Natural Resource Management, AG-4014  
Soil auger  
Soil test kits

C. Specialized Agricultural Skills

Additional units for the sequence can be offered from Specialized Agricultural Skills by selecting modules from this area specific to meeting the goals of the program as determined by school administration in consultation with the program consultant committee.

The following charts contain a list of equipment appropriate by cluster and emphasis areas. There may be certain programs such as oceanography that are not covered adequately by this equipment.







Agricultural Business Management and Science Occupations shop it is generally advisable to have the whole floor slope slightly toward trench drains. All drains should lead to sediment and oil separators. Large unrestricted instructional work floor spaces are necessary to accommodate multiple units of farm equipment.

Compressed air should be accessible to all work areas. The compressor should be located outside the shop area or insulated for sound to cut down on noise. Walls should be free of projections to allow efficient placement of benches, machines, and cabinets. Windows should be at least five feet above the floor.

### Safety/Working Conditions

All laboratories are to conform to safety codes, environmental and other regulatory agency recommendations to ensure a healthy and safe environment for the staff and students.

### Overhead Doors

For Mechanical Science Emphasis of the Agricultural Business Management and Service Occupations Shop: At least one and preferably two insulated overhead doors are needed in this shop. Faculty and students must be able to get to any part of the shop without disturbing torn-down equipment. If possible, these doors should be less than 12 feet wide is better. One door should be 16 feet wide and 10 feet high to accommodate the biggest machines in the foreseeable future. All lights and other equipment in the open shop area must be above door height. At least one outside door for personnel is needed. Provide an electric welding outlet, and a 120-volt outlet should be provided just outside one overhead door.

For the Plant Science emphasis of the Agricultural Business Management and Service Occupations Shop: One insulated overhead door 12 feet wide by 10 feet high is essential. Overhead doors should be located at least 7 feet from the corners of the shop.

### Heat/Ventilation

Locally controlled heat is desirable, especially as evening classes become a more important part of the Occupational and Continuing Education. For the greenhouse, constant failproof heat with an alternate heat source is a basic necessity. All labs generating toxic fumes must have adequate exhaust systems with heated make-up air provided.

### Lockers

Adequate numbers to be provided for student shop coats, notebooks, and projects.

### Land Laboratory

The land laboratory at BOCES needs to be appropriate for the program cluster and emphasis. The land laboratory provided for in figure 4.

### Equipment

In the area center tools and equipment can be exchanged between occupational clusters and areas. Also facilities can be used by different clusters and areas.



emphasis areas. Rental or lease of large machinery and equipment is a way of providing instr without the large purchase price. Use consultant committees for obtaining equipment or for d items.

---

---

---

---

---

---









| <b>Business Management<br/>Emphasis</b> | <b>Conservation Science<br/>Emphasis</b>  | <b>Plant Science<br/>Emphasis</b> | <b>Mechanical Science<br/>Emphasis</b> |
|---|---|-----------------------------------|--|
|   | loader 60-80 H.P. <ul style="list-style-type: none"><li>• 5-yard dump truck</li><li>• Equipment trailer</li><li>• Wheel tractor with 3 pt. hitch</li><li>• Bush hog, york rake, wood splitter,<br/>tree planter</li><li>• Log winch for 3 pt. hitch</li></ul> |                                   |  |

