AGRICULTURAL  AE  ENGINEERING

Department of Biosystems and Agricultural Engineering
College of Agriculture and Natural Resources

053  Engine and Equipment Maintenance
Spring. 2(2-2) R: Open to students in the Institute of Agricultural Technology.
Principles of two-stroke and four-stroke engines. Fuel systems, ignition systems, lubrication, carburation, differentials, clutches and transmissions, and hydraulic systems. Operation and maintenance procedures. Offered first ten weeks of semester.

072  Electrical Wiring I
Fall. 4(3-2) R: Open to students in the Institute of Agricultural Technology.
National Electrical Code requirements for residential, light commercial and agricultural branch circuits and services. Safe use of hand tools.

073  Electrical Occupations
Spring. 1(1-0) R: Open to students in the Institute of Agricultural Technology.
Electrical wiring trade, job openings, preparation of a resume, interviewing for a job, preparing reports. Offered first ten weeks of semester.

082  Electrical Wiring II
Spring. 2(1-3) RB: AE 072 R: Open to students in the Institute of Agricultural Technology.
Installation of electrical circuits for residential, light commercial and agricultural installations. Offered first ten weeks of semester.

085  Electrical Applications
Spring. 3(3-2) RB: TSM 121 R: Open to students in the Institute of Agricultural Technology.

092  Electrical Wiring III
Fall. 4(2-4) RB: AE 082 R: Open to students in the Institute of Agricultural Technology.
Commercial agricultural and industrial wiring, planning and installation, including transformers, polyphase systems, conductor sizing and explosion-proof wiring.

094  Electrical Systems Planning
Fall. 4(4-0) RB: AE 082 R: Open to students in the Institute of Agricultural Technology.
Basic electrical calculations and wiring layout. Circuit requirements, outlet location, branch circuits and services sizing, blueprint reading and cost estimation.

150  Metal Fabrication Technology
Fall. 2(1-2) SA: ATM 150
Physical principles and safety techniques for electric and gas welding. Soldering, brazing, cutting, tool use, machine shop equipment use, and hot and cold metalworking.