101 Electrical Wiring Maintenance for Residential and Agricultural Facilities
Fall, Spring, Summer. 2(2-0) R: Not open to students in the Electrical Technology Major. Not open to students with credit in AE 072. Introduction to electrical circuit maintenance, safety issues, and installation practices for residential and agricultural facilities.

102 Electrical Lighting for Residential and Agricultural Facilities
Fall, Spring, Summer. 2(2-0) Not open to students with credit in AE 085. Introduction to electrical lighting sources, efficacies, productivity enhancement, and basic lighting design practices for residential and agricultural facilities.

131 Agricultural Water Resource Management
Spring. 3(3-0) RB: (CSS 210) or similar basic soil science course R: Open to students in the Institute of Agricultural Technology. A basic knowledge, skills and tools course on water resources use and protection in agricultural production. Field trip required.

143 Application of Precision Agriculture Technologies
Spring. 3(3-0) R: Open to students in the Institute of Agricultural Technology. Practical application of the use of the tools of precision farming with a focus on widely adopted guidance, monitoring and global positioning systems. Field trip required.

151 Fabrication Technology
Fall, Spring. 2(1-2) SA: AE 150 Introduction to principles and practices for shop fabrication including assembly options, fabrication nomenclature, drawing interpretation, 3D printing, tool and equipment use, welding and safety practices.

153 Engine and Equipment Technology

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

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

182 Electrical Wiring II
Spring. 2(1-3) RB: AE 172 R: Open to students in the Institute of Agricultural Technology. SA: AE 082 Installation of electrical circuits for residential, light commercial and agricultural installations. Offered first ten weeks of semester.

185 Electrical Applications

192 Electrical Wiring III
Fall. 4(4-0) R: Open to students in the Institute of Agricultural Technology. SA: AE 092 Commercial agricultural and industrial wiring, planning and installation, including transformers, polyphase systems, conductor sizing and explosion-proof wiring.

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

290 Independent Study
Fall, Spring, Summer. 1 to 5 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Approval of department; application required. Supervised individual student study in electrical technology or agricultural technology.