

Industrial Electricity Power and Controls
ASSESSMENT OF STUDENT LEARNING

Measures	Gen Ed #1	Gen Ed #2	Gen Ed #3	Gen Ed #4	Gen Ed #2	Program #1	Program #2	Program #3	Program #4	Program #5	Program #6
E-portfolio	X		X								
CAAP	X	X									
Student Satisfaction Survey	X	X	X								
Advisory Board Survey	X	X	X								
EET1630 Graphical Interfaces I	X	X		X							X
EET 1650 Graphical Interfaces II	X	X		X							X
EET1050 Electricity I							X			X	

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GENERAL EDUCATION LEARNING OUTCOMES

1. **Communicate effectively**
2. **Evaluate arguments in a logical fashion**—Competence in analysis and logical argument are explicit learning goals for most general education programs, although these skills go by a variety of names (e.g., critical thinking, analysis, logical thinking, etc.). **Students will be able to demonstrate competence in problem solving in communication, mathematics, and in team settings.**
3. **Demonstrate an understanding of cultural differences and the knowledge of how to work effectively in a global and diverse culture and society.**
4. **Employ the methods of inquiry characteristic of natural sciences, social sciences, mathematics, and the arts and humanities;** general education introduces students to methods of inquiry in several fields of study and thereby prepares students to integrate information from different disciplines.
5. **Engage in our democratic society**—one of the overarching goals of general education is to prepare students to be active and informed citizens; the development of a disposition to participate in and contribute to our democracy is of equal importance to the goal of having the skills to do so intelligently.

Learning Outcomes 1-3 will be measured for all students through the CAAP assessment (Writing, Mathematics, and Critical Thinking) and through the e-portfolio (Writing and Cultural Diversity). Outcomes 1 and 2 will also be assessed through course and program assessment for applied degree programs.

Learning Outcomes 1-5 will be assessed in specific courses included in the Transfer Module.

1. Troubleshoot conventional and specialized motors and their feedback systems.
2. Understand residential, commercial, and industrial diagrams, as well as motor control, hydraulic, pneumatic, and instrumentation piping diagrams.
3. Troubleshoot and program open and closed loop process systems.
4. Install, program and troubleshoot, state of the art, programmable logic controllers.
5. Select, install and troubleshoot industrial electrical sensors and devices.
6. Design, install, and program a human interface device for a PLC network.