



Associate in Applied Science Industrial Control Systems – Outcomes

Students will demonstrate outcomes in each of the following areas:

Industrial Control Systems

After successfully completing the Industrial Control Systems requirements, students will:

1. Identify, compute, and apply operations, calibration, configuration and troubleshooting.
2. Locate, select, and apply technical procedural data.
3. Recognize potentially hazardous situations in an industrial work place. OSHA Certified.
4. Identify and solve technical problems in an industrial work place.
5. Demonstrate employable workplace behaviors.
6. Demonstrate knowledge & skills in control systems and automation in industry, achieve industry standards.
7. Qualify for entry level positions as a Process Controls Technician, Instrumentation Technician, Maintenance Electrician, Electronic Technician, Power Plant Operator or Technician, Plant Operator and Engineering Aid.

Communications

After successfully completing the communications requirement, students will:

1. Demonstrate literal and inferential comprehension.
2. Communicate clearly and effectively in appropriate contexts.

Computation

Students successfully completing the computation requirement, students will:

1. Apply algebraic, analytic, geometric or statistical reasoning to solve abstract and applied problems appropriate to an individual discipline.
2. Interpret mathematical, quantitative or symbolic models such as formulas, graphs and tables, and draw inferences from them
3. Employ basic symbolic or quantitative reasoning to support a position or conclusion
4. Apply mathematical formulas in electrical, electronic, instrumentation, process controls and physics that deal with automation in industry.

Human Relations

After successfully completing the human relations requirement, students will:

1. Understand, articulate, and evaluate how various factors (e.g., social, personal/individual, historical, political, and economic) influence human behavior.
2. Understand, articulate, and evaluate the applicability of significant theoretical perspectives (e.g., conflict theory, feminist theory, cognitive behavioral theory) as they relate to contemporary social issues.

Health/PE Outcomes

After successfully completing the PE requirement, students will:

1. Understand and articulate the various elements of fitness (e.g., cardiovascular endurance, strength, flexibility, body composition).
2. Understand, articulate, and evaluate how various factors (e.g., genetics, diet, activity) promote health and wellness.
3. Understand and practice safe workout practices.
4. Identify, understand, evaluate, and apply appropriate fitness strategies (e.g., diet, exercise).