# BUILDING AUTOMATION (CERTIFICATE T0309)

**Technology and Health Division**
**Air Conditioning, Building Automation, and Welding Department**
This program is designed to prepare the student for a career in the fields of Building Automation, Energy Management, and Green Building Technologies. Students desiring a Bachelor's Degree (transfer program) should consult with an advisor to discuss transferability of courses.

## Required Courses

| Course Prefix | Course Name | Units |
|---|---|---|
| AIRC 20 | Refrigeration Fundamentals | 4 |
| AIRC 25 | Electrical Fundamentals for Air Conditioning and Refrigeration | 5 |
| AIRC 31 | Commercial Electrical for Air Conditioning and Refrigeration | 4 |
| AIRC 34 | Commercial Systems | 4 |
| AIRC 61 | Building Automation Fundamentals | 4 |
| AIRC 65 | Building Automation Networks and Programming | 4 |
| AIRC 67 | Energy Management | 4 |
| CNET 56 | Computer Networks | 4 |
| **Total Units** | | **33** |

Building Automation Website

### Program Learning Outcomes

*Upon successful completion of this program, a student will be able to:*

- Identify the startup and operational sequence of a chiller plant.
- Understand the purpose and function of chiller plant economizers.
- Demonstrate the use and application of controlled devices.
- Develop programming strategies for a chiller plant.
- Evaluate the energy usage of a multi-story commercial building.

Review Student Learning Outcomes (SLOs) for this program.