

# BUILDING AUTOMATION (CERTIFICATE T0309)

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## Technology and Health Division

### Certificate T0309

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 (<http://www.mtsac.edu/buildingautomation/>)

Guided Pathways of Study Suggested Course Sequence (<https://www.mtsac.edu/guided-pathways/pathway-results.html?pthwyvar=T0309&desc=Building+Automation%2C+Certificate+T0309>)

## 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) (<http://www.mtsac.edu/instruction/outcomes/sloinfo.html>) for this program.