



# Building Automated Systems Technician

**TECHNICAL DIPLOMA**

Program Code: 30-481-1

**Center for Energy Conservation and Advanced Manufacturing (ECAM) at Oak Creek Campus**

Learn about emerging technologies and gain the entry-level skills required for careers as technicians and specialists in building automation and controls. This industry encompasses a broad range of technologies used to efficiently control electrical and mechanical systems in commercial, industrial and institutional buildings. Courses are taught in the Building Automated Systems Lab.

## Career Outlook

In this field, there is potential for advancement, progressing from entry-level installation work to troubleshooting and programming duties to facility management.

## Program Learning Outcomes

- Perform building and energy use assessments
- Install equipment and materials
- Service building automation systems

## Admission Requirement

- A high school diploma or GED



**Manufacturing, Construction & Transportation**  
**MILWAUKEE AREA Technical College**

**matc.edu | 414-297-MATC**

**Start dates:** August and January

COURSES	Credits
BAS-140 Building Systems 1 .....	3
BAS-141 Building Systems 2 .....	2
BAS-142 Measurement and Verification .....	1
BAS-143 Electrical Concepts/Control 1 .....	2
BAS-144 Control Theory 2 ‡ .....	2
BAS-150 Energy Auditing .....	2
BAS-145 Control Theory 3 ‡ .....	2
BAS-148 Automated Building Control Systems ‡ .....	4
BAS-149 Networking Automated Building Systems ....	4
BAS-151 Commissioning Automated Building Systems..	2
BAS-153 ABS Capstone Project Course ‡ .....	1
TOTAL CREDITS: 25	

‡ Prerequisite required.  
Program curriculum requirements are subject to change.

Current MATC students should consult their  
[Academic Program Plan](#) for specific curriculum  
requirements.

Possible Careers

- Controls Technician (Field-Based)
- Control Systems Installer
- HVAC Controls Technician
- Building Automation Systems Specialist, Integrator or Technician
- Control Systems Designer
- Energy Management Technician
- Systems Technician or Specialist
- Application Engineer

Related Programs

- Air Conditioning and Refrigeration Technology
- Power Engineering and Boiler Operator
- Refrigeration, Air Conditioning and Heating Service Technician
- Apprenticeships including Refrigeration and Air Conditioning, Environmental Service Technician, Industrial Manufacturing Technician



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Wisconsin Relay System 711

**Downtown Milwaukee Campus**  
700 West State Street

**Mequon Campus**  
5555 West Highland Road

**Oak Creek Campus**  
6665 South Howell Avenue

**West Allis Campus**  
1200 South 71st Street

**MATC Education Center  
at Walker's Square**  
816 West National Avenue, Milwaukee