

## Careers

Building trades technicians are skilled craftspeople who take building projects from concept to completion. They use acquired skills and qualifications in building trades technology, combined with knowledge in a specialized area of carpentry, plumbing, electricity, heating, ventilating, or air conditioning.

Career options include carpenter, HVAC technician, plumber, electrician, skilled trades supervisor, building codes official, property management technician, builder, and remodeler. Many skilled craftspeople become self-employed after several years of field experience.

## Salary

In 2004, median hourly earnings of construction laborers were \$12.10; median hourly earnings of electricians were \$20.33; of carpenters were \$16.78; of plumbers were \$19.85; and of heating, air-conditioning, and refrigeration mechanics and installers were \$17.43.

## Job Outlook

As the population and economy grow, more building trades employees will be needed to install and maintain electrical, plumbing, and air systems in homes, factories, offices, and other structures.

Employment for these occupations is expected to grow faster than the average through 2014.

## Education & Training Options

Montgomery College offers an associate of applied science degree (A.A.S.), a certificate program, and letters of recognition in building trades technology. The College's building trades technology program is approved by the Suburban Maryland Industry Association and developed with its assistance. (*See reverse for building trades technology curricula.*)

### ■ Degree

The building trades technology degree program provides a comprehensive mixture of academic and practical training in the areas involved in residential building trades technology. Specialized areas of study may be selected in carpentry; electrical; heating, ventilation, and air conditioning/refrigeration (HVAC-R); or plumbing. Practical hands-on lab work complements course work.

### ■ Certificate

Certificates are offered for building trades technology and building remodeling and repair, as well as letter of recognition options for carpentry, electricity, HVAC/R, and plumbing. Students who complete the certificate may continue study toward the associate's degree in building trades technology.

### ■ Workforce Training

Building and construction courses are offered throughout the year through the College's Workforce Development & Continuing Education Office. For more information, call 240-567-5188.

## Contact @ MC

Rockville Campus . . . . .240-567-7688  
[www.montgomerycollege.edu/Departments/giterv](http://www.montgomerycollege.edu/Departments/giterv)

# Building Trades Technology Curricula

## Degrees, Certificates, and Letters of Recognition

Montgomery College is authorized by the Maryland Higher Education Commission (MHEC) to offer four degrees (associate of arts, associate of science, associate of applied science, and associate of arts in teaching) and certificates.

In addition, the College recognizes students who satisfactorily complete certain course sequences with letters of recognition.

Some curricula are offered at all campuses, whereas others are limited to one or two. When a curriculum is offered at a specific campus, it is indicated by G for Germantown, R for Rockville, or TP for Takoma Park/Silver Spring.

## Admission to Montgomery College is open to all.

Math, English, and reading assessment tests are required prior to registering. (Some students may be exempt from assessment. Consult the *Montgomery College Catalog* for criteria.) Financial aid and scholarships are available to qualified candidates.

## Take the next step.

Complete an Application for Admission form (available online @ [www.montgomerycollege.edu/admissions/mcadmiss.htm](http://www.montgomerycollege.edu/admissions/mcadmiss.htm)) or call 240-567-5000 for information.

## Building Trades Technology A.A.S. (R): 308

### General Education and Other Requirements (23 credit hours)

EN 101	Techniques of Reading and Writing I	3
	English foundation	3
HE 100	Principles of Healthier Living	
	or	
	Health foundation	1
	Mathematics foundation	3
	Speech foundation	3
	Arts or humanities distribution	3
	Behavioral and social sciences distribution	3
	Natural sciences lab distribution	4

### Building Trades Fundamental Requirements (23 credit hours)

BU 130	Introduction to the Building Trades	3
BU 131	Building Trades Blueprint Reading	3
BU 140	Carpentry I	4
	or one of the following:	
	BU 144 Electricity I	
	BU 146 Plumbing I	
	BU 149 Heating, Ventilation, and Air Conditioning/Refrigeration I	
BU 240	Carpentry II	4
	or one of the following:	
	BU 244 Electricity II	
	BU 246 Plumbing II	
	BU 249 Heating, Ventilation, and Air Conditioning/Refrigeration II	
BU 250	Safety for the Building Trades	3
CT 130	Construction Methods and Materials	3
CT 135	Construction Field Operations	3

### Professional Electives (15–17 credit hours)

Select from BU 140, BU 144, BU 146, BU 149, BU 164, BU 240, BU 244, BU 246, BU 249, CE 260, CE 261, CT 181, CT 283, CT 284, CT 291, and CT 299.

**Total credit hours 61–63**

(more)

# Building Trades Technology Curricula

(continued)

## Building Trades Technology Certificate (R): 179

BU 130	Introduction to the Building Trades	3
BU 140	Carpentry I	4
	or one of the following:	
BU 144	Electricity I	
BU 146	Plumbing I	
BU 149	Heating, Ventilation, and Air Conditioning/Refrigeration I	
BU 240	Carpentry II	4
	or one of the following:	
BU 244	Electricity II	
BU 246	Plumbing II	
BU 249	Heating, Ventilation, and Air Conditioning/Refrigeration II	
	Professional electives*	6

**Total credit hours 17**

\* Select from BU 131, BU 164, BU 250, CE 260, and CT 135.

## Building Remodeling and Repair Certificate (R): 236

BU 131	Building Trades Blueprint Reading	3
BU 140	Carpentry I	4
BU 240	Carpentry II	4
	Professional electives*	8

**Total credit hours 19**

\*Select from BU 144, BU 146, and BU 149.

## Carpentry Letter of Recognition (R): 810

BU140	Carpentry I	4
BU240	Carpentry II	4
		<b>Total credit hours 8</b>

## Electricity Letter of Recognition (R): 807

BU144	Electricity I	4
BU244	Electricity II	4
		<b>Total credit hours 8</b>

## HVAC/R Letter of Recognition (R): 808

BU148	Heating, Ventilation, and Air Conditioning/Refrigeration I	4
BU248	Heating, Ventilation, and Air Conditioning/Refrigeration II	4
		<b>Total credit hours 8</b>

## Plumbing Letter of Recognition (R): 809

BU146	Plumbing I	4
BU246	Plumbing II	4
		<b>Total credit hours 8</b>