

## Careers

Individuals with a two-year degree in computer applications are employed in a broad range of industries that require information technology support, computer applications, and Web development skills, including: administrative services manager, data entry, desktop publisher, help desk support, Web designer/producer, Web content developer, Webmaster.

## Salary

Median annual earnings of computer support specialists were \$40,430 in 2004. Median annual earnings of desktop publishers were \$32,340 in 2004. Earnings for administrative services managers vary greatly, depending on responsibilities, education, employer, and geographic location. In general, median annual earnings were \$60,290 in 2004.

Online career sites show help desk support positions offered at annual salary range from \$26,250 to \$53,750 in 2005.

Depending on the position, employees with bachelor's degrees earn more on average than non-degree employees.

## Job Outlook

Employment of computer support specialists and systems administrators is expected to increase faster than the average for all occupations through 2014. Employment growth reflects the rapid pace of improved technology data and communications, network security demands, and continued e-commerce.

## Education & Training Options

Montgomery College offers an associate of applied science degree (A.A.S.), two certificate programs, and one letter of recognition program in computer applications. There are two tracks in this degree program:

- (1) administrative support technology
- (2) information technology

(See reverse for computer applications curricula.)

### ■ Degree

- **administrative support technology**—provides skills to attain an administrative assistant or office support staff position.
- **information technology**—prepares students for a wide variety of positions involving the use of applications software.

### ■ Certificate

Two certificates are offered:

- (1) administrative support technology and
- (2) information technology.

### ■ Workforce Training

The College's Workforce Development & Continuing Education Department offers courses throughout the year. Call 240-567-5188 for more information.

## Contact @ MC

Rockville Campus . . . . .240-567-5185  
[www.montgomerycollege.edu/ca](http://www.montgomerycollege.edu/ca)

# Computer Applications 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/mcadmin.htm](http://www.montgomerycollege.edu/admissions/mcadmin.htm)) or call 240-567-5000 for information.

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

EN 101	Techniques of Reading and Writing I .	3
	English foundation	3
	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

### Database Systems Track: 311E (37–38 credit hours)

CA 106	Computer Use and Management	3
CS 140	Introduction to Programming	3
CA 141	Introduction to Database Applications	3
CA 240	Advanced Database Applications	3
CS 215	Visual Basic Programming	3
CA 272	Professional Web Site Development	4
CA 278	Web Application Development Using ColdFusion	4
CA 282	Web Application Development Using PHP and MySQL	
	or	
CA 288	Advanced Web Application Development Using ColdFusion	3
	Electives: Select 11–12 credits from CA and CS courses.	

**Total credit hours for database systems track 60(61)**

### Information Technology Track: 311B (37–38 credit hours)

CA 106	Computer Use and Management	3
CA 120	Introduction to Computer Applications	3
CA 141	Introduction to Database Applications	3
CA 232	Word Processing Applications	3
CA 252	Spreadsheet Applications	3
CA 272	Professional Web Site Development	4
	Electives: Select 18–19 credits from AC 201, AC 202, BA, CA, CS, EC, GD, or MG.	

**Total credit hours for information technology track 60(61)**

(more)

# Computer Applications Curricula

(continued)

## Database Systems Certificate: 238

CA 106	Computer Use and Management	3
CS 140	Introduction to Programming	3
CA 141	Introduction to Database Applications	3
CA 240	Advanced Database Applications	3
CS 215	Visual Basic Programming	3
CA 272	Professional Web Site Development	4
CA 278	Web Application Development Using ColdFusion	4
CA 282	Web Application Development Using PHP and MySQL	
	or	
CA 288	Advanced Web Application Development Using ColdFusion	3

**Total credit hours 26**

## Information Technology Certificate: 213

CA 106	Computer Use and Management	3
CA 120	Introduction to Computer Applications	3
CA 141	Introduction to Database Applications	3
CA 232	Word Processing Applications	3
CA 252	Spreadsheet Applications	3
CA 272	Professional Web Site Development	4

**Total credit hours 19**