Computer Science

Begin Your Studies for One of the Fastest Growing Occupations

Creating the next revolutionary handheld device or best-selling software requires intricate knowledge of how a computer operates. The Computer Science program offers you a solid foundation for transfer to a bachelor’s degree program and is a cost-effective way to complete the first two years of a four-year degree.

Individuals in the computer science field typically possess excellent math skills, develop new processes or products and work in a team. From this program, you will learn concepts that will prepare you for success, including:

- mathematic and scientific principles for solving computer problems
- logical and systematic problem-solving formats
- logical structures commonly used in developing programs
- team exercises to test and design software
- object-oriented programming
- basic skills for computer animation and computer game development

With a bachelor’s degree or further study, you can prepare for a variety of careers, including:

- computer scientist
- database administrator
- computer systems developer
- network systems designer
- data communications analyst

Computer systems analysts, network and computer systems administrators, and network systems and data communications analysts are high priority occupations in the Philadelphia region and require a bachelor’s degree.

The Computer Science Program

In the computer science field, you draw upon your math and science abilities to create and maintain sophisticated hardware, software and network systems.

“Computer scientists and database administrators are projected to be one of the fastest growing occupations over the next decade.”


Career Paths

Graduates with a degree in Computer Science or a related field are needed in almost every industry, from health care and education to telecommunications and software publishing.
This program introduces students to these and other facets of computer science:

- artificial intelligence
- numerical analysis
- programming languages
- software engineering
- theory of computing

The Computer Science program follows the first two years of the four-year Computer Science degree guidelines issued by the Association for Computing Machinery and the Institute of Electrical and Electronic Engineers. In order to create a smooth transition to a four-year program, the College holds transfer agreements with Arcadia, Drexel, Strayer and Temple universities.

Salaries
Computer and information scientists, research: $97,970
Computer specialists: $75,150
Network systems and data communications analysts: $71,100
Database administrators: $69,740


Areas of Study
This curriculum includes courses in Programming and Algorithm Development, Discrete Mathematics and Physics.

Affirmative Action Statement
Community College of Philadelphia is committed to the principles of equal employment and equal educational opportunity for all persons without regard to race, color, ancestry, creed, national or ethnic origin, age, sexual orientation/preference, religion, sex, disability or status as a disabled veteran or veteran of the Vietnam Era, in the administration of its educational programs, activities or employment in accordance with applicable federal statutes and regulations. Any questions regarding this statement should be directed to the director, Office of Diversity and Equity, located in Room M2-3; telephone number 215-751-8039.

College Information
Visit the College Web site at www.ccp.edu to find out about:

- **Academic Programs**
  www.ccp.edu/site/academic/
- **Admissions Process**
  www.ccp.edu/site/prospective/admissions_process.php
- **Transfer Agreements**
  www.ccp.edu/site/prospective/transfer_agreements/
- **Financial Aid**
  www.ccp.edu/site/prospective/financial_aid/
- **Scholarships and Awards**
  www.ccp.edu/site/current/scholarships/
- **College Life**
  www.ccp.edu/site/current/student_life/
- **Directions to the College**
  www.ccp.edu/site/locations/main.php

Admission to the College
Prospective students are strongly encouraged to apply early prior to the start of a term in order to complete the appropriate steps for enrollment. For more information about admission to the College and important dates, including open house information, visit our Web site at www.ccp.edu, call 215-751-8010 or e-mail admissions@ccp.edu.