

Community College of Philadelphia

Computer Science

Learn the Science Behind Today's Technology

Do you dream of creating the next handheld personal computer or developing a new video game? Would you like to learn how computers work? The Computer Science program gives you a solid foundation to transfer and pursue a bachelor's degree for a career in a rapidly growing field.

"Computer scientists and database administrators are expected to be among the fastest growing occupations through 2014."

– Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2006-07 Edition

In the computer science field, you draw upon your math and science abilities to create and maintain sophisticated hardware, software and network systems. With a bachelor's degree or further study, you can



prepare for challenging careers, some of which include:

- computer scientist
- database administrator
- computer system developer
- computer programmer
- software engineer
- network systems designer
- data communication analyst
- game developer

The Computer Science program offers these features:

- a solid core of general education courses
- significant focus on math and science knowledge that is needed for success in this field
- hands-on activities in numerous computer courses
- opportunities to develop teamwork techniques

You have the benefit of experienced, caring faculty who are strongly committed to helping students learn, and the program's small classes and individual computer workstations allow for personalized attention. Students have ample opportunity to practice their skills outside of class at the state-of-the-art computer laboratory on campus.

This curriculum is an economical and effective way to complete the first two years of a four-year degree program in Computer Science.

Career Paths

People with computer science backgrounds can work in a wide range of industries, as well as in the computer industry. The U.S. Department of Labor's *Occupational Outlook Handbook, 2006-07 Edition*, projects

Computer Science at Community College of Philadelphia

that computer occupations will account for the following five fastest growing occupations in the economy through 2014:

- network systems and data communications analysts
- computer software engineers—applications
- computer software engineers—systems software
- network and computer systems administrators
- database administrators

The Computer Science Program

The Computer Science program offers students the opportunity to learn:

- mathematic and scientific principles for solving computer problems
- logical, systematic problem-solving techniques used in the industry
- logical structures commonly used in developing programs
- foundation skills for computer animation, computer game development and other technologies
- software design
- object-oriented programming

The Computer Science Program

The Computer Science curriculum 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.

Regional colleges and universities, including Drexel and Temple universities, readily accept Computer Science program courses. Many Computer Science program graduates who transfer to pursue a bachelor's degree have praised the level of preparation they received at the College.

College Information

Visit the College Website 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

The program prepares students to study these and other facets of computer science:

- artificial intelligence
- computer systems
- database systems
- human factors
- numerical analysis
- programming languages
- software engineering
- theory of computing

Areas of Study

This curriculum includes courses in Computer Science, Discrete Mathematics, Linear Algebra, Calculus and Physics.

Admission to the College

We accept students on an open enrollment basis, meaning that applications are accepted at all times of the year. For registration information, call **215-751-8010** or e-mail **admissions@ccp.edu**.

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 M2-36; telephone number 215-751-8039.