Computer Information Systems

Computer Information Systems is an interdisciplinary program combining business administration and computer science giving a graduate an understanding of how systems work, how to manage them, and how to create them. Students also take courses in the liberal arts to cultivate critical, creative, logical, and ethical thinking which are essential in today's job market.

A degree in Computer Information Systems is different from a degree in Management Information Systems because, in addition to knowing how systems work and how to manage them, a graduate will also have the ability to build systems as well. Thus, a major portion of the courses are directed towards computer science and programming to provide the necessary tools for a system's creation.

Additionally, a degree in Computer Information Systems is also different from a degree in Computer Science as the focus is upon how to apply computing, rather than just looking at the theoretical aspects of computation. Thus, the degree is less mathematical and theoretical than computer science but still prepares students with the ability to write programs and create systems.

The goals of the program are straightforward. Upon graduation, a student will be able to:
- proficiently use a variety of computer languages, methodologies and platforms;
- apply the correct methodologies for the development of systems; and,
- identify and explore future trends within the computing area.

In addition to the coursework that will enable you to build your own systems, you will have the opportunity to choose as one of your courses, after consultation with a personal advisor and a career counselor, an internship. Holy Family University's internship program successfully places students in career-related work experiences. Students gain a competitive edge in the marketplace because of this practical work experience.

What Can You Do With This Major?

The Philadelphia region is a thriving information technology sector, with a growing number of technology businesses and employment opportunities. Of the top ten largest occupations by job posted by Gray Associates, four of the categories are information technology-related. Computer Information Systems majors are prepared to take advantage of this burgeoning field. General fields our graduates will be qualified for are software application developers, computer user support specialists, computer systems analysts, and network/computer systems administrators. Within these areas, positions include the following:

- Computer network architect
- Computer programmer
- Computer system administrator
- Computer systems analyst
- Database administration
- Information security analyst
- Software developer
- Web developer

Courses in CIS Concentration

The Computer Information Systems curriculum is flexible, allowing students to develop a course sequence that prepares them for their chosen career path. Required coursework in the concentration includes:
- Introductory Programming
- Advanced Programming
- Internet Programming
- Human-Computer Interaction
- Networking
- Systems Analysis
- Database Management
- Cyber Security
- Senior Seminar in CIS

Students also take one restricted elective from the following courses:
- Internship
- Introduction to Business Intelligence
- Statistical Computing and Visualization
- Advanced Database Management
- Data Mining
- Operating Systems
- Digital Marketing

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For More Information
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The Value of Family

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