

Undergraduate Certificate in Information System Design

This innovative 18-credit program responds to the increasing industry demand for information system professionals. This multifaceted certificate can be completed as a stand-alone continuing education program or serve as preparation for a bachelor's, master's, or doctoral degree. Many of the course options are available in the evenings, on Saturdays, at satellite locations, or through PittOnline.

Who should participate:

- Professionals in another field who wish to enter the information management field
- Individuals working in the technology field who want or need more formal training to progress in their careers
- People wanting to prepare for a master's degree in information sciences

Upon completion of this certificate, participants will be able to:

- Use scientific programming language to introduce information structures such as linked lists, stacks, and queues.
- Develop program modules using a current programming language.
- Utilize the theories of data structures and programming language design.

These competencies may be applied to positions such as system designer, database developer, database manager, interactive system designer, expert system designer, information retrieval specialist, network designer, database marketer, or administrator who advises and implements technology purchases and upgrades.

This certificate is applicable to fields such as banking, health care, library science, judicial systems, communication, education, agriculture, private industry, and government.

Admission requirements

Students must meet requirements for admission to the College of General Studies (CGS). For admissions guidelines and an application, see www.cgs.pitt.edu. A certificate application form must be completed and returned to CGS.

Students must complete a college algebra course or its equivalent and INFSCI 0010 Introduction to Information Science, earning a C grade or better in both courses before progressing to the certificate curriculum.

Fees and tuition

Current tuition rates are available at www.ir.pitt.edu/tuition. Rates will change each July for the next academic year.

Payment plans

- Discover, MasterCard, and American Express are accepted for tuition payment via the Web at <http://student-info.pitt.edu>.
- If you are employed, check with your company's human resources office to see whether you qualify for company tuition benefits.
- Optional payment plans and deferrals are available for participants who wish to extend tuition payments over a longer period of time.

Obtaining the certificate

To receive the certificate, you must fill out an application with your advisor prior to completing your last term in the program. Check with your advisor for the application filing form and deadline, and be sure all requirements for the certificate have been met. To avoid a late fee, you should complete this process when registering for the term.

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Curriculum: 18 credits

Students must complete a total of 18 credits as follows. All courses must be completed with a C or better grade.

Required courses

all courses are three credits

INFSCI 0017	Object-Oriented Programming 1 for Information Science
INFSCI 1070	Introduction to Telecom and Networks
INFSCI 1022	Database Management Systems
INFSCI 1024	Information System Analysis and Design
INFSCI 1044	Human Factors in System Design

Choose one elective from the following:

INFSCI 1014	Graphics
INFSCI 1052	User-Centered Design
INFSCI 1068	Geographic Information Systems
INFSCI 1074	Computer Security

School of Information Sciences

The School of Information Sciences was ranked third in the country by U.S. News & World Report in March 1999 and again in April 2000. The school educates information professionals for a wide range of specializations in the information field. Programs involve an interdisciplinary course of study that includes diverse areas such as communications, computer science, linguistics, mathematics, philosophy, and psychology.

College of General Studies

The College of General Studies (CGS) provides adult and continuing education programs that are designed to address changing employer and student needs. The high-quality, flexible programs include degree completion, certificates, and enrichment courses. CGS provides a single point of access to the University's innovative programs and services that both enrich lives and promote the economic health of the region.

Requirements subject to change. Check with an academic advisor before registering.

For more information, contact:

**University of Pittsburgh
College of General Studies
412-624-6600
www.cgs.pitt.edu**