

INFORMATION SYSTEMS & COMPUTER SCIENCE @ WAGNER

Wagner College is a competitive, four-year private college founded in 1883. The broad liberal arts curriculum is enhanced by a rich array of internship and other professional and cultural opportunities readily available in New York City.



For more information, contact the Admissions Office at (800) 221-1010 or visit our website at www.wagner.edu.

The **Computer Science** program emphasizes the practical application of knowledge with a focus on software engineering. Students may also focus studies on hardware design, mathematics, or business computing. A minor in mathematics or management information systems is an option. The major prepares students for careers as programmers, software engineers, systems analysts, and consultants.

The **Information Systems Major** emphasizes the practical application of knowledge focusing on design and implementation aspects of large-scale information systems for businesses. The major is designed for students seeking professional careers in information systems. The students are required to take a number of courses in computer science, information systems and business. The major prepares students for careers as systems analysts and managers, network and database administrators, and consultants.

SAMPLE CLASSES

A Comparative Study of Contemporary Operating Systems.

This class is based on a comparative study of the features of UNIX, Windows 2000, XP, Linux and other current operating systems. Their respective environments and their accommodations of programming and networking related issues will be studied at length. Available file systems, tools utilities, as well as debuggers and other supporting tools are discussed on a comparative basis.

Electronic Commerce

This class is designed to provide students with a broad overview of the electronic commerce environment and key issues involved in its implementation. Students will learn how to build the front-end, middleware, and back-end components that drive electronic commerce.

Theory of Computation

This class covers mathematical foundations of computer science.

Formal languages: lexical, context-free, context-sensitive, type 0.

Automata: Finite, Push-down, Linear-bound Turing machines, Chomsky's hierarchy.

Computer Graphics

Point and line drawing techniques, planar transformations, clipping, windowing, graphics packages, survey of graphics hardware, interactive graphics are all covered in this class. Additional topics to be chosen from raster graphics, curves and surfaces, perspective, shading, hidden-surface elimination.

FIRST YEAR LEARNING COMMUNITY EXAMPLE

CyberPolitics in Perspective

Explores how the dawn of the Internet age has impacted the American political landscape. Critical attention will be placed upon the interaction between cyberspace, power, authority, and social organization in U.S. society. We will consider how citizens have used the internet to forge a new media, ignite a new activism and

refashion politics. Special attention will be also paid to the effect of the computer, the internet, and the new media have had on the hearts and minds of the American citizen.

INTERNSHIP EXAMPLES

Morgan Stanley
Goldman Sachs (WIT Group)
Greenway Vista
Esquire Ltd.

RESEARCH TOPICS

- "Computer Model for Zebra Fish Brain"
- "Super Computers"
- "Student Use of Maple and C/C++ in Numerical Analysis"

CONTACTS

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