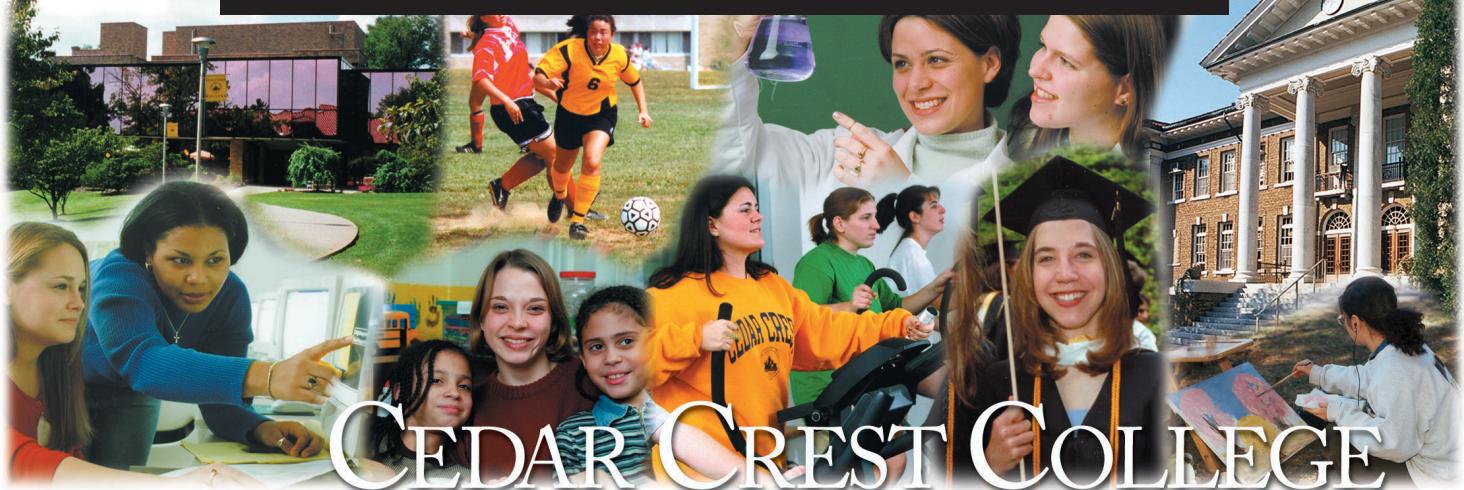


Computer Information Systems



CEDAR CREST COLLEGE

The newly updated program in Computer Information Systems at Cedar Crest College is your first step to an exciting career in a dynamic profession. According to the U.S. Dept. of Labor Bureau of Labor Statistics, the five fastest growing occupations are in Computer and Information Systems (<http://www.bls.gov/emp/emptab3.htm>). A program of study in this major will prepare you for a wide range of attractive professional positions and for graduate study immediately upon receiving your B.S. degree or while working in the field.

A Nontraditional Area for Women

Despite the promising future offered by a degree in computer information systems, this remains a field of study that is not commonly considered by young women. The growing list of Cedar Crest graduates of this program demonstrate that women are successful and highly satisfied studying and working in computer technology. Our students work closely with faculty, industry specialists and other students to develop the technical skills demanded in today's workplace.

CIS Skills for Professional Success

Students completing the major will have developed an extensive list of competencies, including:

- Proficiency in the major programming languages in current use
- Competence in formal software engineering and methods for implementing large-scale projects
- Ability to design and implement database and spreadsheet models
- Aptitude in use of networking technologies currently in use
- Understanding of the major high-level components of modern computer systems and their functions
- Competence in using the capabilities of system and application software
- Proficiency in identifying and analyzing the needs of a proposed or existing computer system
- Ability to communicate technical design and implementation concepts to others

Problem Solving and Critical Thinking Skills

The liberal arts curriculum at Cedar Crest complements the CIS major by cultivating skills which employers and graduate schools increasingly require. These skills go beyond technical expertise, such as the ability to:

- Express ideas clearly and persuasively
- Analyze problems from written descriptions
- Work as a member of a development team
- Assume a leadership role in the technology function of an organization
- Effectively communicate with users and with other professionals through structured techniques
- Understand the ethical and social impact of technology on individuals, organization and society
- Consider and analyze alternative solutions to problems

Some recent Graduates working in the field

April Moyer '03 - Air Products and Chemicals,
CDP (Career Development Program) IT Specialist

Jennifer Case '02 - Traveler's Insurance Co.,
Information Technology Specialist

Christine Feichtel '02 - Air Products and Chemicals,
Programmer/Analyst

Natalie Snyder '02 - Air Products and Chemicals,
Programmer/Analyst

Tracie Christine '01 - PP&L, Assistant Technology Specialist

Elena Batova '01 - Worldwide Net Incorporated,
Executive Administrator

Other graduates are employed worldwide in software engineering, systems analysis, computer support, database administration, programming, and data communications.

Connect with Success

1-800-360-1222 Apply online at: www.cedarcrest.edu

Co-major/Minor in another area of study

Many CIS majors combine their expertise in this field with another area of interest. With careful planning, you can do a dual major or a minor in another discipline. The possibilities are endless; one CIS student completed a biology minor and is a database administrator for a pharmaceutical company; a student with a minor in English has a position in technical documentation. Other natural choices are Communication, Mathematics, Art, Accounting, and Education. These creative possibilities allow a student with multiple interests to create a unique niche to use her talents and training in exciting ways.

Internships

Students who have completed their junior year have a wide range of opportunities to participate in the internship program during the summer or the academic year. Internships focus on providing real-world experience in small and large companies or in government or service organizations. Students work closely with a site supervisor and a faculty mentor to apply coursework to the corporate setting, gaining invaluable experience outside the classroom. These opportunities often lead to employment after graduation.

Association of Computing Machinery activities

As a Computer Information Systems major, you are encouraged to join the ACM, a professional organization dedicated to advancing the skills of information technology professionals and students worldwide. Cedar Crest has an active programming team which competes in ACM programming contests.

Facilities

- Linux and NT servers
- Connected workstations
- Complete lab environment for total system networking
- Hands-on experience building networks
- Multimedia center for high-tech web development
- Multiple state-of-the-art computer labs
- Cutting-edge presentation systems

Major Requirements

CIS 117	Foundations of Computing and Information Systems
CIS 135	Introductory Programming in C++
CIS 136	Advanced Programming Using C++
CIS 220	User Interface Programming
CIS 243	Computer and Communications Networks
CIS 302	Relational Database Systems
CIS 328	System Software and Hardware
CIS 351	Systems Analysis and Design (capstone)
MAT 110	Probability and Statistics
MGT 110	Principles of Management

Elective courses: Computer Science concentration

CIS 190	Programming Team (1 cr)
CIS 224	Discrete Mathematics for Computer Science
CIS 255	Programming the World Wide Web
CIS 260	Special Topics
CIS 340	Algorithms and Applications
MAT 141	Calculus I

Elective courses: Information Systems concentration

ACC 101	Integrative Financial Accounting
CIS 215	Advanced Business Computing
CIS 260	Special Topics
CIS 319	Decision Support Technology
MGT 300	Writing for Management

Please note that changes are occasionally made in program requirements. Schedules for course offerings are announced well in advance. Faculty work closely with students in program selection and scheduling.

Cedar Crest College complies with all applicable federal and state legislation and does not discriminate in educational programs or in employment on the basis of race, religion, national origin, age, gender, disability or sexual orientation.

*For additional information about
computer information systems at Cedar Crest, call or write:*

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Updated April 2003