

Computer Information Systems – Information Technology

Information Technology is designed for those people who wish to earn an associate's degree in the foundations of modern information technology. This program provides students with a core of general education and computer information systems courses coupled with a flexible set of elective requirements. Students who complete the program will enter the job market as computer specialists who have a solid foundation in the areas of computing most important in today's workplace—including PC operating systems, common applications software, data communications and networking, database management systems, computer programming, and systems analysis and design.

Elective courses beyond the core may be chosen to develop specialization in a selected area or to obtain a broader understanding of certain computer technologies and how they fit together.

STUDENT LEARNING OUTCOMES:

Upon completion of this program graduates will be able to:

- Use technology effectively to communicate and analyze information related to computer information systems.
- Work as a part of a professional team to analyze, design and implement computer information systems.
- Install, configure and maintain computer information systems, including the system's operating system and common computer hardware and software.
- Demonstrate a broad knowledge of computer information systems terminology and practices, including those related to networking and data communications technology.
- Effectively use word processing, spreadsheet, presentation graphics and database management software in a professional office environment.
- Design and implement a relational database.
- Develop solutions to common programming problems using the structured sequential logic of computer programming languages.

PROGRAM ENTRY REQUIREMENTS:

This program is open to interested students. However, new students are normally required to take the College's placement test at their time of entry.

Students who have had prior computer-related experience may be placed in more advanced courses after consultation with and approval of the department chairperson.

Students identified as needing developmental work must satisfactorily complete the appropriate English and mathematics courses as part of their degree program.

PROGRAM OF STUDY AND GRADUATION REQUIREMENTS:

A total of 60 credit hours as prescribed must be satisfactorily completed with a grade point average of 2.0 ("C" average).

COMPUTER INFORMATION SYSTEMS – INFORMATION TECHNOLOGY

Course Number and Name	Prerequisites and Corequisites	Credits	Gen Ed Req.
FIRST SEMESTER			
ENGL 101 – English Composition I		3	ENGL 101
OA 102 – Keyboarding or OA 110 – Professional Keyboarding		1 or 3	
CIS 103 – PC Applications		3	Tech Comp
CIS 106 – Introduction to Computer Programming		4	
CIS 105 – Windows Professional Operating System		4	
SECOND SEMESTER			
MATH 118 – Intermediate Algebra or above		3	Mathematics
ENGL 102 – English Composition II	ENGL 101	3	ENGL 102, Info Lit
CIS 150 – Data Communications	CIS 104 or CIS 105	4	
MATH 121 – Computer and Logic or MATH 163 – Discrete Math	MATH 161 with a grade of "C" or better or MATH 162 or higher	3 or 4	
CIS 205 – Database Management Systems	CIS 103	4	
THIRD SEMESTER			
CIS or CSCI Elective*		3 or 4	
Natural Science Elective		3 or 4	Natural Science
CIS or CSCI Elective*		3 or 4	
CIS 270 – Systems Analysis and Design	CIS 205	4	
CIS or CSCI Elective*		3 or 4	
FOURTH SEMESTER			
Social Science Elective		3	Social Sciences
Humanities Elective		3	Humanities
CIS or CSCI Elective*		3 or 4	
CIS or CSCI Elective (if necessary to reach the minimum of 15 credits of CIS or CSCI electives)*		3 or 4	
MINIMUM CREDITS NEEDED TO GRADUATE		60	

General Education Requirements

All General Education requirements are met through required courses (as indicated above) except for the Writing Intensive requirement, the Interpretive Studies requirement and the American/Global Diversity requirement. Therefore, in order to graduate, students in this program must choose one course that is designated Writing Intensive, one course that is designated Interpretive Studies and one course that is designated American/Global Diversity. The same course may be used to fulfill more than one of these requirements. A list of courses that fulfill these requirements and a more detailed explanation of the College's general education requirements appear elsewhere in this Catalog and on www.ccp.edu.

* CIS 100 and 104 are for non-majors and do not count toward degree.

For More Information Contact:

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