Computer & Information Studies | Major

PROGRAM HIGHLIGHTS IN BRIEF

Computer & Information Studies at Alvernia University are designed to meet the varying needs of students entering professions where technology is used. The Bachelor of Science degree with a major in Computer & Information Studies prepares students for computer-related fields or graduate level studies.

Several CIS courses are available for a “4th Credit Option.” The student contracts to do a specific amount of computer-based service work related to the content of the computer course; for this, the student gets a fourth credit for a 3-credit course as well as computer experience. The department has first priority to a number of computer classrooms, each of which includes local area network and Internet access.

CAREER SUCCESS

Graduates of the Computer & Information Studies program have been employed by SoftMart, Martin Marietta, Meridian Bank, Dana Corporation, GPU, Rockwell International, Vanguard, UGI, Wyeth-Ayerst, and a host of other companies on the cutting edge of computer technology.

CAREER OPPORTUNITIES

Analyst/Programmer
Computer Applications Engineer
Computer Facilities Manager
Database Manager
Data Security Analyst
Forensic Computing Specialist
Information Systems Developer
Information Systems Manager
Network Administrator/Manager
Network Programmer
On-line Services Manager
Operating Systems Programmer
Product Development Manager
Satellite Communications Specialist
Software Engineer
Software Support Specialist
Web Developer

CURRICULUM OVERVIEW

Bachelor Degree Requirements (34 Credits)

CIS 151 Introduction to CIS I
CIS 152 Introduction to CIS II
CIS 226 Advanced C# and Data Structures I
CIS 235 Networking and Communications
CIS 240 Computer Organization
CIS 328 Programming for Rapid Application Development
CIS 330 Operating Systems
CIS 351 Advanced C# and Data Structures II
CIS 410 Systems Analysis and Project Management
CIS 420 Database Management Systems
MAT 204 Introduction to Mathematical Logic

There are three minors related to information technology. The CIS minor is for the student seriously interested in programming; the Information Studies minor is designed around business information needs; and the Digital Media minor emphasizes communication tools.

CIS Minor Requirements (18 Credits)

CIS 151 Introduction to CIS I
CIS 152 Introduction to CIS II
CIS 226 Advanced C# and Data Structures I
CIS 240 Computer Organization
CURRICULUM OVERVIEW (continued)

Choose one from the following:
CIS 410 Systems Analysis and Design
CIS 420 Database Management Systems
(or three other CIS elective credits not to include CIS 114)

Digital Media Minor (21 Credits)
CIS 115 Technology for the Workplace
CIS 151 Introduction to CIS I
CIS 152 Introduction to CIS II –OR-
CIS 235 Networking and Communication
COM332 Multimedia Design and Editing
COM362 New Media

Choose two from the following:
ART 209 Basic Photography
ART 251 3-D Design
ART 281 Graphic Design and Illustration
COM251 Broadcasting and Electronic Media
COM340 Advertising Workshop
COM352 Video Production
COM452 Television Production

Information Studies Minor Requirements (18 Credits)
CIS 151 Introduction to CIS I
CIS 152 Introduction to CIS II
CIS 235 Communication Technology
BUS 305 Accounting Information Systems –OR-
BUS 311 Principles of Management Info Systems
CIS 334 Java –OR-
CIS 328 Programming for Rapid Application Development
CIS 362 New Media
CIS 410 Systems Analysis and Project Management

Associate Degree Program (67 Credits)
The Associate Degree program provides each student with an opportunity to obtain a firm foundation for future study in the area of computer information studies. All of the courses and requirements taken for the two-year degree may apply toward the completion of the four-year computer information studies degree. See catalog (www.alvernia.edu/academics/) for associate degree requirements.

CONTACT INFORMATION
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