

COMPUTER INFORMATION SYSTEMS

BACHELOR OF SCIENCE DEGREE



The baccalaureate degree in Computer Information Systems is designed to provide students with a strong background in computer and information science and prepare them for successful careers in areas of computer technology ranging from network management, web design, and database management, to help desk and software support.

Students in this program will develop or expand their technical skills to a level where they will be able to manage systems and processes in strategic areas of information technology. Additionally, they will be given a background in management theory, communication, and ethical reasoning so they will be able to facilitate intelligent decision making related to the constantly evolving field of computer information systems. Furthermore, they will be provided a general education background that will enhance their quality of life as well as their professional skills.

Program Objectives:

Upon completion of this program, the graduate will be able to:

1. demonstrate the technical knowledge and skills necessary for productive careers in computer information services.
2. communicate effectively in small and large group settings presenting well-prepared information in an organized format (verbal, written, and/or multi-media).
3. develop a set of ethical values that will enhance the student's ability to cope with real world business problems.
4. demonstrate an understanding of economic institutions and the complex relationship between business, government, and consumers.
5. apply analytical skills and software applications to identify, formulate, and solve business and computer-related problems.
6. demonstrate an understanding of the functional areas of business, including aspects of the global workplace.
7. develop a plan for applying the theories, design, and technologies utilized in a business communications network.
8. blend business, computers, and information technology to develop successful business applications using current technology.
9. develop business and computer related security plans.

Upon completion of the Database Management Concentration the graduate will be able to:

10. manage and administer databases.

Upon completion of the Networking and Security Concentration the graduate will be able to:

10. effectively operate networks and implement security policies and procedures.

Upon completion of the Web Development Concentration the graduate will be able to:

10. design, create and maintain standards compliant web pages using web programming languages and design tools.

Admission Requirements:

All candidates for admission must pass the College's entrance examination requirements. Each candidate for admission is considered individually on merit and potential.

Graduation Requirements:

All required courses must be completed with a cumulative GPA of 2.0 or better on a 4.0 scale in order to be eligible for graduation. A concentration of 36 hours must be completed. A grade of "C" or better must be achieved in all courses to be eligible to graduate.

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Major:		Quarter Hours:
ACC101	Financial Accounting I	4
ACC105	Financial Accounting II	4
BUS204	Principles of Management	4
BUS300	Advanced Business Communications	4
BUS315	Business Ethics	4
BUS340	Organizational Theory	4
CIS113	Introduction to Programming	4
CIS114	Computer Usage and Software Applications	4
CIS118	Database Applications	4
CIS120	Web Design	4
CIS126	Information Technology Research and Analysis	4
CIS131	Technical Support I	4
CIS141	Technical Support II	4
CIS155	Java Programming	4
CIS181	Windows Desktop Administration	4
CIS202	Systems Analysis and Design	4
CIS218	Network Communications	4
CIS227	Information Security Fundamentals	4
CIS255	Java Programming II	4
CIS350	Information Technology	4
CIS402	Information Technology Project	4
	-or-	4
CIS499	Computer Information Systems Internship	4
FIN200	Principles of Finance	4
MGT400	Project Management in Business	4
	Total Hours	92

General Education:		Quarter Hours:
BUS232	Business Statistics	4
ECO144	Introduction to Macroeconomics	4
ECO145	Introduction to Microeconomics	4
ENG109	Principles of Speech	4
	-or-	4
ENG120	Interpersonal Communications	4
ENG116	Composition	4
ENG117	Advanced Composition	4
HUM110	Human Potential	4
HUM201	Professional Development	4
MAT140	College Algebra	4
MAT145	Discrete Mathematics	4
PSY140	Introduction to Psychology	4
	-or-	4
SOC100	Introduction to Sociology	4
	Total Hours	44

General Education Electives:		Quarter Hours:
	Humanities	4
	Life Science with lab	6
	Physical Science with lab	6
	Total Hours	16
	Total Hours Before Concentration	152

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Complete one of the following:

Database Management: The Database Management concentration focuses on building SQL databases and analyzing and manipulating data into useful business information. The student will be able to apply management techniques in the area of disaster recovery, auditing and security when in a database administrator role.

Database Management Concentration:		Quarter Hours:
CIS208	Database Management	4
CIS308	Advanced Database Management	4
CIS328	Database Management I: Disaster Recovery	4
CIS338	Database Management II: Security and Auditing	4
CIS348	Management of Information Security	4
CIS358	Database Management III: Data Mining	4
CIS Elective		4
Open Elective		4
Total Hours		32

Networking and Security: The Networking and Security concentration focuses on networking theory, management, and security issues. The student will understand the functions of the active directory, different operating system platforms and network systems, and security policies and procedures when in a networking administration role.

Networking and Security Concentration:		Quarter Hours:
CIS236	Computer Forensics	4
CIS251	Introduction to DOS and Scripting	4
CIS281	Windows Network Administration	4
CIS315	Windows Active Directory	4
CIS318	Advanced Network Communications	4
CIS361	Open Source Operating Systems	4
CIS348	Management of Information Security	4
Open Elective		4
Total Hours		32

Web Development: The Web Development concentration focuses on web planning, development, and maintenance. The student will be able to apply web design, graphics, programming, and security techniques when in a web developer and designer role.

Web Development Concentration:		Quarter Hours:
CIS210	Visual Communications	4
CIS215	Web Graphics	4
CIS220	Web Programming	4
CIS222	Web Design II	4
CIS326	Advanced Internet Topics	4
CIS348	Management of Information Security	4
CIS Elective		4
Open Elective		4
Total Hours		32

Total Hours Required for Degree **184**

Gainful Employment Disclosure: Computer Information Systems, Bachelor of Science Degree

Important information about the educational debt, earnings, and completion rates of students who attended this program:
<https://www.midstate.edu/programs/disclosures/CIS4>