

# COMPUTER INFORMATION SYSTEMS

## Program Description

The Bachelor of Applied Science (BAS) in Computer Information Systems combines technical skills with the business proficiency needed today. A unique program, the BAS allows students who have already earned an AAS to build upon their technical specialties with essential learning courses and junior/senior level computer information coursework. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework. Computer information systems courses include coursework in data analytics, project management, systems analysis and design, database administration, networking, electronic commerce, productivity tools and decision support, as well as systems development and implementation, including programming and information systems theory. BAS students will be technically and academically prepared for management positions within information technology. Prospective students not holding an associate of applied science degree can begin their university career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the BAS.

The Bachelor of Science (BS) in Computer Information Systems is a degree required as organizations face the challenges of technology management. The program provides graduates with business management skills and computer information expertise to manage computer systems in today's organizations. As businesses increasingly rely on technology to provide a competitive advantage, employees with an understanding of both business concepts and computer systems are a necessity. Graduates of this program are employed in occupations such as systems analysts, analyst/programmers, database administrators, network administrators, web page designers, help desk specialists, and information technology managers. Graduates assist businesses with creating, obtaining, and maintaining computer information systems that solve problems and assist in facilitating routine business events. Computer information systems studies require students to examine computer systems from organizational, social, psychological and technical perspectives. Graduates from this program have taken a variety of courses that were developed based on national guidelines for quality degrees in information systems.

The Associate of Arts (AA) degree provides students an overview of computer information systems and business. By earning essential learning credits, the degree also positions students for completion of a four-year degree in business. The degree program includes the Colorado Statewide General Education Core and meets the lower-division general education requirements at most public institutions in Colorado. The AA degree with an emphasis in business computer information systems, in addition to providing students with all of their essential learning, is useful in providing students with a working knowledge of computer hardware and software. Common productivity tools such as presentation software, spreadsheets and database management software used in businesses are learned. If a student earns an associate's degree, the computer information systems AA provides skills that can be used in the workplace immediately.

The Computer Information Systems Minor allows students majoring in other areas to enhance their degrees with information systems knowledge. Such graduates may use their expertise to help solve computer system problems for businesses. Since many businesses rely

heavily on computer systems as decision-making tools, graduates with this minor have a competitive advantage. Additionally, many employees in numerous organizations find themselves daily using computer hardware and software as productivity tools within their positions. The computer information systems minor assists students in learning skills and background information that they will need in all occupations.

The Certificate in Decision Support Systems is designed to expose students and business managers to the knowledge and skills needed to use computer software to solve business problems, particularly in the support of business decision making. This certificate addresses the need of today's managers to more fully manage the information systems functions of an organization. The certificate will provide students with an overview of information they would encounter if they went on to earn the BBA concentration in information systems or the BS in computer information systems, each of which more fully prepares students to work in or manage the information systems functions of organizations.

The business department also offers the Bachelor of Business Administration with a concentration in business analytics.

## Contact Information

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## Programs of Study Bachelors/Minors

- [Business Analytics \(Minor\)](#)
- [Computer Information Systems \(BAS\)](#)
- [Computer Information Systems \(BS\)](#)
- [Computer Information Systems \(Minor\)](#)

## Associates

- [Business Computer Information Systems, Liberal Arts \(AA\)](#)

## Certificates

- [Decision Support Systems \(Professional Certificate\)](#)