What is Computer Information Systems?

- A field of studying computers and algorithmic processes.
- Encompasses a variety of topics including systems analysis and design, computer networking, information security, database management and decision support systems.
- The Information Systems degree provides the student with the technical and managerial knowledge and skills required to enter the challenging and dynamic field of computers and information systems.
What do they do?

- Analyze an organization's computer needs and recommend changes.
- Make sure the security of an organization's network is safe.
- Implement information system solutions to help an organization work more effectively and efficiently and in turn be more profitable.
- Store and organize data.
- Design and create websites.
General Preparation for IS majors

- Both technical skills and knowledge of business process and practice are needed
- Develop good critical thinking and problem solving skills
- This field blends organizational and managerial areas with the use of information technology
Career Paths Within IS

- **Consulting**
  - Applying the analytical and problem solving features of IS with the knowledge of systems and programming

- **Database and Information Systems Management**
  - Plan, coordinate, and direct computer-related activities in an organization. They help determine the information technology goals of an organization and are responsible for implementing computer systems to meet those goals.

- **Systems Analysis, Design, and Management**
  - Helping to design the systems that manage mass amounts of data
Work Environment

- Most IS workers work in offices full time and are expected to work overtime if the organization is having problems with the computer network.
- Depending on the size of the organization, determines the amount of people you will work with on a daily basis.
Certifications

Depending on the specific type of Information System career being pursued is which required certification an individual should pursue.

Below are some certifications related to this major:

- Certified Information Systems Examiner
- CyberSecurity Forensic Analyst
- Certified network Defense Architect
- Certified Hospitality Technology Professional
- EC-Council Certified Security Analyst
- RSA Archer Certified Administrator
- Advanced Certified Engineer
- GAIC Reverse Engineering Malware
Sample Job Titles

- System Analyst
- Database Administrator
- Network and Computer Systems Administrator
- Information Systems Manager
- Information Tech Specialist
- Business Analyst
- Information Associate
- Corporate Audit Information Technology Development
- Information Security Analyst
- IT Project Manager
Job Outlook

• Employment of computer and information systems managers is projected to grow 15 percent from 2012 to 2022, faster than the average for all occupations.

• Demand for computer and information systems managers will increase as firms continue to expand their use of wireless and mobile networks. A rapid increase in demand for computer software will also increase the need for employees at all levels of management.

• Additional employment growth will likely result from the need to bolster cybersecurity in information technology (IT) departments. More attention is being directed at cyber threats, a trend that is expected to increase over the next decade.
Collegiate Student Organizations at UTEP

The Association of Information Technology Professionals (AITP)

- National organization with professional and student chapters all over the United States.

Mission-Statement: To serve our members by delivering relevant technology and leadership education, research and information on current business and technology issues, and forums for networking and collaboration.
The Association of Information Technology Professionals (AITP)
10 Reasons Why You Should Join a Student Organization

• Meet business professionals
• Build leadership and business skills
• Make friends with common career goals
• Go on company tours
• Attend social networking events
• Make a difference in your community
• Compete in national conferences/competitions
• Travel!!!
• Internship opportunities
• Secure your dream job
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