

THE UNIVERSITY OF TEXAS AT EL PASO

# College of Business Administration

## Information Systems

# 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 organizations computer needs and recommend changes.
- Make sure the security of an organizations 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

# Department Contact Information

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