

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 Computer 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.

Major Requirements at UTEP COBA

In addition to core business courses, IS majors are also required to take:

Information Systems		
CIS	3301	Introduction to Business Application Programming
CIS	3350	Business Systems Analysis & Design
CIS	4370	Business Data Communication
CIS	4365	Database Management
CIS	4385	Intro to Information Security
3 Upper-Level CIS Electives		
1 Business Elective Upper Division		

SEE ONLINE CATALOG FOR COURSE DESCRIPTION: degreeplans.utep.edu

Certifications

The certification obtained should depend on the specific type of Information System career being pursued.

Some certifications related to this major are:

- 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.

Internship Opportunities

- The United Services Automobile Association (USAA)
- U.S. Navy
- SGI Global, LLC
- Department of Veteran Affairs
- DELL- Desktop Support Analyst
- Best Buy- Geek Squad
- Glacier Technologies, LLC
- Teletech
- CCI Energy and Construction Services, LLC
- Wells Fargo

Collegiate Student Organizations at UTEP

The Association of Information Technology Professionals (AITP)

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

Department of Accounting and Information Systems

Business Room 260

Phone: (915) 747-5192

Martha Escontrias, Administrative Assistant