REQUIRED COURSES
CIS 110 -- Computer Tools for Business
CIS 310 -- Principles of Information Systems
CIS 315 -- Information Technology and Problem Solving
CIS 323 -- Database System Management
CIS 335 -- Application Development for the Internet
CIS 421 -- Introduction to Information Systems Assurance
CIS 444 -- Network Design & Implementation
CIS 450 -- Systems Analysis, Design, and Implementation
TOTAL Required Hours = 24

ELECTIVES
CIS 325 Enterprise Systems & Integration

CERTIFICATE PROGRAM
Undergraduate Certificate Program awarded by the College of Business includes the following four courses.
CIS 421 -- Introduction to Information Systems Assurance
CIS 422 -- Incidence Response and Computer Forensics
CIS 423 -- Disaster Recovery and Business Continuity
CIS 424 -- Information Systems Assurance Risk Analysis
CIS 425 -- Principles of Cryptography
TOTAL Program Hours = 15

CIS 422, CIS 423, CIS 424, and CIS 425 may be used as electives in the Bachelor of Science in Computer Information Systems Program.

Our mission—indeed, our passion—is the continuing advancement of the quality and relevance of our teaching and research, and of our relations with constituents. We seek to fulfill these aspirations through discovering new knowledge, creating meaningful learning experiences, preparing our students for successful professional careers, developing mutually beneficial partnerships, and Building Distinction by enhancing the reputation of the College.

ABOUT THE UNIVERSITY
Louisiana Tech is a public, selective-admissions university located in the rolling, piney hills of north-central Louisiana. The University is divided into five colleges and the Graduate School. The city of Ruston has been the home of Louisiana Tech since 1894 and provides excellent support to Tech’s nearly 11,000 students.
CIS PROGRAM

The goal of the Louisiana Tech Computer Information Systems (CIS) Program is to produce students with the skill set necessary to lead in the ever dynamic information technology (IT) field. Louisiana Tech’s CIS graduates contribute daily to some of the most respected and influential organizations in the nation. Exxon-Mobil, CenturyLink, IBM, Murphy Oil, Department of Homeland Security (DHS), the Federal Bureau of Investigation (FBI), and the Central Intelligence Agency (CIA) have hired many recent graduates. In addition, many North Central and Northwest Louisiana businesses have hired Louisiana Tech graduates.

The CIS program prepares students for many possible career paths across a broad spectrum of information technology. The program has gained national recognition for efforts in information assurance with an Information Systems Security Professional Certificate Program that is certified by the National Security Agency (NSA). This certificate program can be completed simultaneously with the CIS Bachelor’s Degree.

FUTURE OUTLOOK FOR CIS GRADUATES

Today’s entry-level information technology professional faces an environment that is more exciting than ever before. Technology now connects people and business in ways that were previously unimaginable on a global scale from social networking to text messaging, raising the possibilities to a new level. Here are a few of the exciting things going on in the field today:

• Many new technologies allow a focus on design rather than convoluted computer code, leveraging time and effort towards quicker and more meaningful results.
• Forecasts by firms such as Gartner and Forrester show that a very small portion of IT jobs are being outsourced, and the jobs that remain are all the more numerous, interesting, and meaningful than ever before.
• An unprecedented number of firms of all types and sizes need help with information technology projects of all kinds.
• Today’s information systems professional is less concerned with programming and more concerned with pairing industry knowledge with technology knowledge to achieve strategic goals and make positive change in an organization.
  - Michael Cincala, Manager at Deloitte and Touche.

Being an IT professional makes you central to everything that happens at the business. Picture yourself as the “hub” of an organization!

• IT professionals interact with and contribute to every level of an organization’s structure.
• IT professionals translate information needs into technology solutions.
• IT professionals translate technological capabilities into new business capabilities.
• IT professionals are a critical link in achieving important organizational goals.

Examples of how you serve as a “Hub”:

• Identify technological needs of business people.
• Determine how web applications should “look and feel.”
• Assist the organization in solving information problems.
• Discover security weaknesses and make recommendations to mitigate them.
• Make the organization more efficient and profitable through process design.

JOB OUTLOOK

Businesses are finding it more difficult than ever to find qualified IT professionals, making this field one of the best for job seekers—despite the economy. As technologies continue to advance, jobs for those with the proper skill set in the IT field remain strong.

Computer & Information Systems Managers

Yahoo! Jobs rated this position as the #1 future career that could provide you with a $75,000 per year income. When you combine technical knowledge with management and leadership ability the result is a computer and information systems manager.

New applications of technology in the workplace will continue to drive demand for workers, fueling the need for more managers.

Systems Analyst

You would stand at the front lines of a company’s IT evolution and identify business requirements for systems and how information technology could be applied to solve business problems. Demand for these workers will increase as organizations continue to adopt and integrate increasingly sophisticated technologies. This top IT career is expected to skyrocket through 2016.

Information Security Analyst

In a day of financially driven threat profiles and regulations, companies are being forced to take a more proactive approach to incorporating information security. As a result, you will become a critical component of the enterprise and government risk mitigation program. The Global Information Security Workforce Study has projected the growth for this position to be nearly twice the expected growth of any IT position with a compound annual growth rate of 8.5 percent.

Web Developers

You would be the mastermind behind the code that makes a web site deliver the bottom line to business organizations. The Bureau of Labor Statistics projects sizzling job growth with a 37 percent increase in openings until 2016.

INFORMATION TECHNOLOGY SUPPORT

You’re the guru in this job, which has you solving computer crashes and installation issues for multiple computers. IT support careers are valuable simply for the experience and diversity.