



# What can I do with a Major in... Computer Information Systems

## What is Computer Information Systems (CIS)?

The Computer Information Systems major prepares individuals to analyze and reengineer business processes, to design and develop web-based applications, and to manage these information systems as strategic resources.

Sometimes referred to as **Information Management and Systems**, is the discipline covering the application of people, technologies, and procedures — collectively called information systems — to solving business problems.

## What is Computer Information Systems at U of L?

The University of Louisville offers a Bachelor of Science in Business Administration (B.S.B.A.) degree with a major in CIS through the College of Business. The CIS program offers a unique blend of technical and management perspectives: Systems development – web development using HTML, JavaScript, and XML, object-oriented programming, relational database development, and systems prototyping; Information systems modeling – systems analysis and design using object-oriented methodologies; Information systems theory – operating systems, relational database theory, and data telecommunications and networking; MIS principles – strategic management of information technology; Business principles – accounting, economics, finance, management, and marketing; Mandatory co-operative work assignment. An optional concentration in information security.

### Degrees in Computer Information Systems at U of L:

Bachelor of Science in Business Administration - CIS Major

## Occupational Overview

Information systems work requires analytical thinking. Prospective CIS students may begin their preparation in high school by taking courses in computer literacy, computer programming, and mathematics. Also, well-rounded skills in writing, oral presentations, and problem solving are important. Knowledge of Windows, the web, e-mail, and PC application software is expected.

## Career Opportunities in Computer Information Systems:

A career in CIS will be intellectually challenging, financially rewarding, and prestigious, offering excellent opportunities for advancement. Information systems impact every aspect of the business enterprise, and graduates who understand how to deploy web-based solutions to business problems will lead their organizations in the digital economy. The national demand for skilled information systems professionals, especially for systems and business analysts, ensures that well-prepared graduates will have an exciting set of career options.

CIS graduates may pursue positions as systems analysts, web developers, database specialists, information security specialists, data communications specialists, or system sup-



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port specialists. Graduates may become team leaders, project managers, or department heads. Prospects for rapid advancement are extraordinary. Highly motivated graduates may aspire to Chief Information Officer (CIO) duties, reporting directly to the Chief Executive Officer (CEO) of the organization.

## Related Links in the CIS Discipline:

Bureau of Labor Statistics, Employment Projections:

<http://stats.bls.gov/emp/home.htm>

Kentuckiana Occupational Outlook:

<http://www.kentuckianaworks.org/outlook/>

Infosec: <http://louisville.edu/infosec>

## Salary/Outlook Info



<http://online.onetcenter.org>



<http://www.bls.gov/oco/>