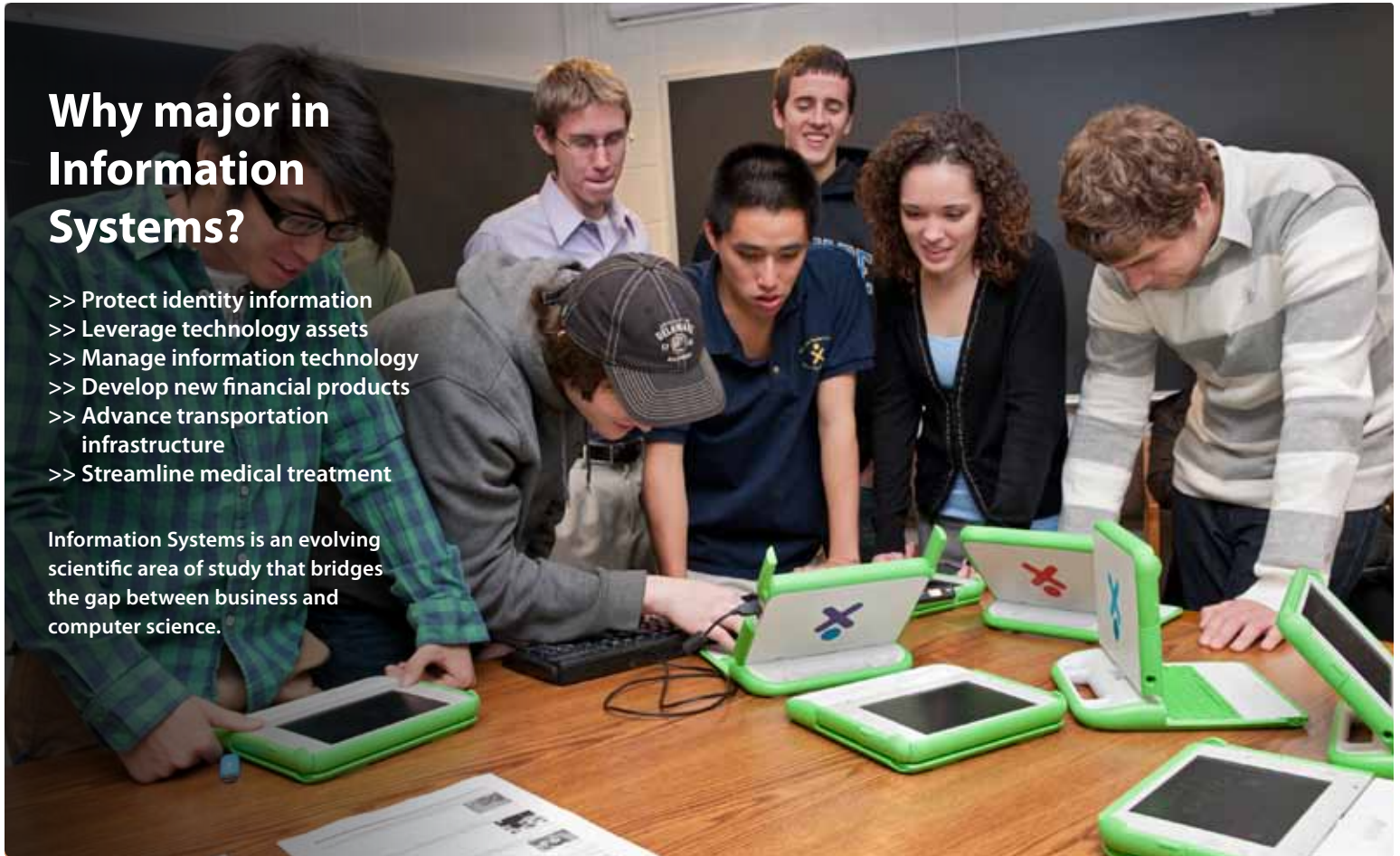


## Why major in Information Systems?

- >> Protect identity information
- >> Leverage technology assets
- >> Manage information technology
- >> Develop new financial products
- >> Advance transportation infrastructure
- >> Streamline medical treatment

Information Systems is an evolving scientific area of study that bridges the gap between business and computer science.



## Endless career opportunities

Networks of computers extend human brainpower by creating modes of communication and record keeping that are at once more complex and more convenient than ever before. To be effective, these systems must aid and enhance our business, government and service organizations, which requires a careful understanding of the factors controlling human interactions, as well as the technical potential and limitations of computer systems.

A degree in information systems opens the door to careers in information technology including data processing, e-business development, business and technology consulting, and marketing in a variety of industries and businesses. Graduates may expect to take jobs with major computer manufacturers and software development firms such as IBM, Microsoft and Oracle, and major corporations such as JP Morgan Chase, DuPont and Bank of America. Employment opportunities also are available in virtually every

manufacturing and service industry such as chemical companies, consumer products firms, banks and financial services companies. Government contractors and small software development firms represent other potential employers.

### Our program

The Department of Computer and Information Sciences offers students a Bachelor of Science major in Information Systems (INSY-BS), which combines business and information technology subjects. The major addresses student demand for courses oriented toward the design of new software systems for business and consumer needs. Students enrolled in the major must fulfill a set of major courses along with 1) a set of business courses (referred to as the **business core**) and 2) a set of information systems courses (referred to as the information **systems core**).

**THE BUSINESS CORE** emphasizes management and marketing issues. Students gain expertise in management and financial matters through courses in:

- accounting
- finance
- operations management
- organizational behavior
- marketing

**THE INFORMATION CORE** stresses the use of computing technology in solving business problems. Course work includes technological problem solving and project management, as well as a selection of advanced computer science courses designed to provide students expertise in:

- programming
- business telecommunication networks
- system development
- database systems
- software engineering

## What are breadth requirements?

The College of Engineering encourages students to take a well-rounded program of study. Breadth requirements include 18 credits of humanities and social sciences selected from an approved course list.

## Program highlights

- Excellent classroom teaching: 30% of the CIS faculty are University Excellence in Teaching award winners
- Undergraduate research opportunities (academic year and summers)
- Potential for study abroad earning CIS credit
- A full-time faculty advisor
- Service learning opportunity—develop learning games on the XO to broaden participation in computing
- Significant team project experience
- Summer internship opportunities
- Small class sizes (40 or less) in the junior and senior years
- Participation on programming teams (e.g. ACM and Supercomputing)

## What about advanced degrees?

Well-qualified computer and information science majors can pursue several advanced degrees, including:

- Master of Science
- Master of Science in Software Engineering\*
- Doctor of Philosophy (Ph.D.)
- Certificate in Computational Science and Engineering

\*Offered jointly with the Department of Electrical and Computer Engineering

## Career resources

The Career Services Center provides comprehensive services to all matriculated undergraduate students, primarily in the development and implementation of career and educational plans. The Career Services Center can help you determine a major, find internships or full-time jobs, build your resume and cover letter, practice interview skills, apply to graduate or professional school, or network with employers. Visit [www.udel.edu/CSC](http://www.udel.edu/CSC) for details.

## Information Systems Curriculum

### Fall

#### First Year

COURSE #	COURSE DESCRIPTION	CREDITS
EGGG 101	Introduction to Engineering (FYE)	2
CISC 108	Introduction to Computer Science I	3
MATH 241	Analytic Geometry & Calculus A	4
	Breadth Requirement Elective 1	3
	Breadth Requirement Elective 2	3
		15

#### Second Year

COURSE #	COURSE DESCRIPTION	CREDITS
CISC 220	Data Structures	3
CISC 250	Business Telecommunication Networks	3
MATH 205	Statistical Methods	4
ACCT 207	Accounting I	3
	Laboratory Science 1*	4
		17

#### Third Year

COURSE #	COURSE DESCRIPTION	CREDITS
BUAD 306	Operations Management	3
	IS Elective Course**	3
ENGL 312 or 410	Written Communication in Business or Technical Writing	3
	Breadth Requirement Elective 4	3
	General Elective	3
		15

#### Fourth Year

COURSE #	COURSE DESCRIPTION	CREDITS
COMM 212	Oral Communication in Business	3
CISC 355	Computers, Ethics, & Society***	3
MISY 430	Systems Analysis and Implementation	3
	IS Elective Course**	3
	General Elective	3
		15

### Spring

#### First Year

COURSE #	COURSE DESCRIPTION	CREDITS
CISC 181	Introduction to Computer Science II	3
MATH 210	Discrete Mathematics	3
ENGL 110	Critical Reading and Writing	3
	General Elective	3
	General Elective	3
		15

#### Second Year

COURSE #	COURSE DESCRIPTION	CREDITS
CISC 275	Introduction to Software Engineering	3
ACCT 208	Accounting II	3
	Laboratory Science 2*	4
	Breadth Requirement Elective 3	3
	General Elective	3
		16

#### Third Year

COURSE #	COURSE DESCRIPTION	CREDITS
CISC 437	Database Systems	3
BUAD 309	Management & Organizational Behavior	3
BUAD 301	Introduction to Marketing	3
	IS Elective Course**	3
	Breadth Requirement Elective 5	3
		15

#### Fourth Year

COURSE #	COURSE DESCRIPTION	CREDITS
CISC 475	Advanced Software Engineering	3
MISY 431	Technological Problem Solving	3
MISY 432	Problem Solving Project Management	3
	General Electives	7
		16

**TOTAL CREDIT HOURS: 124**

A list of Breadth Requirement courses is available at: [www.engr.udel.edu/advise/undergrad\\_programs.html](http://www.engr.udel.edu/advise/undergrad_programs.html). See catalog description for course substitutions and a list of technical electives.

\* Lab Science 1 & 2 must be from a single sequence: PHYS 207/208; CHEM 103/104; BISC 207/208; or GEOL 105/115 & 107

\*\* Selected from CISC 260, CISC courses numbered 300 or above, BUAD 301, FINC 311, MISY courses numbered 300 or above (except MISY 330) and approved by the student's advisor.

\*\*\* CISC 355 can count as a Breadth Requirement Elective from Creative Arts & Humanities