

# Department of Computer Information Systems

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The Computer Information Systems (CIS) Department mission is to provide its students with rigorous programs of study to prepare them to assume technology leadership roles within business, industrial or technology-based organizations, and for challenging careers in computer science and information technology.

Students may choose from two separate and distinct areas of study. One area of study is integrated with courses in business and leads to a bachelor of business administration degree with emphasis in computing. Alternatively, students may earn a bachelor of science degree in computer science. Curricula for both the computer science degree and the computer information systems degree provide the necessary academic foundation for success in an exciting and rapidly changing discipline. In addition to intensive study of computer science topics, the degree plan requires several mathematics-oriented courses. Both degree programs are current and based on curriculum models recommended by recognized professional organizations in computing.

As a reflection of the department's mission, students will benefit from the teaching of full-time faculty throughout the four years of study. The faculty are academically qualified and technically competent professionals who regard teaching the highest priority. In addition, many are engaged in applied research so that they may bring to their teaching a balance between theory and practice.

Department faculty and staff are committed to working with students to help cultivate practical skills, assimilate relevant scientific knowledge and the ability to engage in life-long learning so that students may be competitive in global technological environments. This is accomplished by creating learning environments that foster the acquisition of skills considered essential for students' personal and professional growth. While the department encourages collaborative learning by providing opportunities for students to work as team members to solve real-world problems, it also promotes growth at the personal level.

## University Core Curriculum Requirements

Refer to the "University Core Curriculum" section of this catalog.

Discipline	Course Prefix
Computer Information Systems .....	CIS
Computer Science .....	CS
Quantitative Business Analysis .....	QBA

NOTE: See the "Academic Courses and Abbreviations" and "Course Descriptions" sections of this catalog for a complete list of courses offered by the University.

## Bachelor of Business Administration (B.B.A.) Degree

### Major in Computer Information Systems (Major Code: 308)

#### University Core Curriculum Requirements

Refer to the "University Core Curriculum" section of this catalog. For all bachelor of business administration degree requirements, students must take GBUS 215 and ECO 201.

#### Bachelor of Business Administration (B.B.A.) Degree Requirements

The goal of the Computer Information Systems (CIS) course of study is to prepare professionals trained in technical aspects of computer systems, knowledgeable of applications areas and able to grow professionally in a rapidly changing field. The CIS program is career oriented to prepare graduates with the background to advance to high-level positions in areas such as programming, systems analysis, systems design, project leadership and systems management.

#### Department Core Requirements

- CIS 204, 206, 260; CS 207, 290.

#### Computer Information Core Requirements

- CIS 360, 450, 490.
- 12 hours from CIS 305, 306, 382, 385, 482, 498; CS 313, 405, 420, 425, 452, 483, 485.

#### Required Courses from Other Disciplines

- QBA advanced elective.
- CIS majors are exempt from CIS 480 in the B.B.A. core.
- General electives to total the minimum of 130 hours.

#### Teacher Secondary Certification

The Department of Computer Information Systems offers a secondary teacher certification major in computer information systems (CIS). Computer information systems may also be selected as a second teaching field with other certification majors. Consult

# Department of Computer Information Systems

the "Division of Education" section of this catalog for core curriculum and certification majors requirements related programs offered by this department.

Curriculum Guide (suggested course sequence)			
Major in Computer Information Systems			
First Year		Second Year	
<b>Semester 1</b>	<b>Semester 2</b>	<b>Semester 1</b>	<b>Semester 2</b>
Science w/lab .4 hrs. ENG 101 .....3 hrs. CIS 105 .....3 hrs. MATH 110 or 115* .....3 hrs. HIST 201, 202 or 203 .....3 hrs. 16 hrs.	Science w/lab .4 hrs. ENG 102 .....3 hrs. CIS 204 .....3 hrs. FA 101, ART 151, 152, MUS 101 or THRE 105 .....3 hrs. SCOM 101 or 201* .....3 hrs. 16 hrs.	ENG 201 or 202 .3 hrs. HIST 201, 202 or 203 .....3 hrs. CIS 206 .....3 hrs. POSC 101 .....3 hrs. MATH 116 .....3 hrs. SES 101 or activity .....1 hr. 16 hrs.	ENG 203, HIST 210, PHIL 101 or SPAN 207 .....3 hrs. POSC 102 .....3 hrs. ECO 201* .....3 hrs. QBA 250 .....3 hrs. CS 207 .....3 hrs. SES 101 or activity .....1 hr. 16 hrs.
Third Year		Fourth Year	
<b>Semester 1</b>	<b>Semester 2</b>	<b>Semester 1</b>	<b>Semester 2</b>
ACC 231 .....3 hrs. GBUS 215 .....3 hrs. ECO 202 .....3 hrs. CIS 260 .....3 hrs. CS 290 .....3 hrs. CIS/CS adv. elective** .....3 hrs. 18 hrs.	ACC 232 .....3 hrs. GBUS 312 .....3 hrs. FIN 320 .....3 hrs. CIS 360 .....3 hrs. CIS/CS adv. elective** .....3 hrs. Elective .....3 hrs. 18 hrs.	MGT 330 .....3 hrs. MKT 340 .....3 hrs. ECO adv. elective .3 hrs. CIS 450 .....3 hrs. QBA 350, 452 or 458 .....3 hrs. 15 hrs.	MGT 415 .....3 hrs. CIS 490 .....3 hrs. CIS/CS adv. elective** .....3 hrs. CIS/CS adv. elective** .....3 hrs. Elective .....3 hrs. 15 hrs.

\*MATH 115, SCOM 201, ECO 201 required for B.B.A.  
\*\*12 hours CIS/CS advanced electives from CIS 305, CIS 306, CS 313, CIS 382, CIS 385, CIS 405, CS 420, CS 425, CS 452, CIS 482, CS 483, CS 485, CIS 498.

## Bachelor of Science (B.S.) Degree

### Major in Computer Science (Major Code: 307)

The computer science curriculum is designed to provide the student with significant exposure to the theory, abstraction and design components of the field of computer science. Students completing this curriculum will be able to demonstrate (1) a system-level perspective; (2) appreciation of the interplay between theory and practice; (3) familiarity with common themes such as abstraction, complexity and evolutionary change; and (4) adaptability to the enormous pace of change in computing. Students will have significant project experience.

### University Core Curriculum Requirements

Refer to the "University Core Curriculum" section of this catalog.

### Department Core Requirements

- CIS 204, 206, 260; CS 207, 290.

### Computer Science Core Requirements

- CIS 450, 490; CS 307, 313, 315, 405, 425, 452.

### Computer Science Advanced Electives

- 18 hours from CIS 360, 382, 385, 482, 498; CS 420, 430, 483, 485.

### Required Courses from Other Disciplines

- MATH 215, 240, 241; QBA 250.; general electives to total the minimum 130 hours.

Curriculum Guide (suggested course sequence)			
Major in Computer Science			
First Year		Second Year	
<b>Semester 1</b>	<b>Semester 2</b>	<b>Semester 1</b>	<b>Semester 2</b>
Science w/lab .4 hrs. ENG 101 .....3 hrs. CIS 105 .....3 hrs. CIS 204 .....3 hrs. MATH 110 or 115* .....3 hrs. SES 101 or activity .....1 hr. 17 hrs.	Science w/lab .4 hrs. ENG 102 .....3 hrs. CIS 206 .....3 hrs. MATH 215 .....3 hrs. SCOM 101 or 201 .....3 hrs. SES 101 or activity .....1 hr. 17 hrs.	ENG 201 or 202 .....3 hrs. CS 207 .....3 hrs. CIS 260 .....3 hrs. QBA 250 .....3 hrs. MATH 240 .....4 hrs. 16 hrs.	ENG 203, HIST 210, PHIL 101 or SPAN 207 .....3 hrs. POSC 101 .....3 hrs. CS 290 .....3 hrs. CIS/CS adv. elective .....3 hrs. MATH 241 .....4 hrs. 16 hrs.
Third Year		Fourth Year	
<b>Semester 1</b>	<b>Semester 2</b>	<b>Semester 1</b>	<b>Semester 2</b>
FA 101, ART 151, 152, MUS 101 or THRE 105 .....3 hrs. HIST 201, 202 or 203 .....3 hrs. CS 313 .....3 hrs. CIS/CS adv. elective** .....3 hrs. POSC 102 .....3 hrs. Elective .....3 hrs. 18 hrs.	CS 307 .....3 hrs. CS 315 .....3 hrs. CIS/CS adv. elective** .....3 hrs. CIS/CS adv. elective** .....3 hrs. ANTH 201, ECO 201, GEOG 202, PSY 201, SOC 201 .3 hrs. Elective** .....3 hrs. 18 hrs.	CS 405 .....3 hrs. CIS 450 .....3 hrs. CS 452 .....3 hrs. CIS/CS adv. elective** .....3 hrs. CIS/CS adv. elective** .....3 hrs. 15 hrs.	HIST 201, 202 or 203 .....3 hrs. CIS 425 .....3 hrs. CIS490 .....3 hrs. Elective .....4 hrs. 13 hrs.

\*Or other higher level math course.  
\*\*18 hours CIS/CS advanced electives from CIS 360, CIS 382, CIS 385, CS 420, CS 430, CIS 482, CS 483, CS 485, CIS 498.

# Department of Computer Information Systems

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## Cooperative Education Program

The department offers a cooperative education (co-op) program for students majoring in any field within the department. The co-op program combines classroom study with a planned program of related work experience with industry or government agencies. The program provides students opportunities to earn a portion of their college expenses while gaining work experience which enhances their academic studies. The co-op program could extend the time necessary to complete a degree. Past co-op wages have averaged \$8-\$17.50 per hour.