

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 ECON 2301.

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 1315, 2390; CS 2315.

Computer Information Core Requirements

- CIS 3350, 3360, 3385, 4390.
- 12 hours from CIS 3382, 4098, 4355, 4372, 4382, 4392; CS 3303, 3315, 4320.

Required Courses from Other Disciplines

- QBA 3350 or 4352.
- CIS majors are exempt from CIS 3330 in the B.B.A. core.
- A minimum of 127 credit hours is required.

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

Minor in Computer Information Systems

The minor in computer information systems is available to any student pursuing a B.B.A. degree. Students wishing to complete a minor in computer information systems must take CIS 1315, 2390 and CS 2315, and then select nine hours from CIS 3350, 3360, 3382, 3385, 4372, 4382 or CS 3315.

Department of Computer Information Systems

Curriculum Guide (suggested course sequence)			
Major in Computer Information Systems			
First Year		Second Year	
Semester 1 Lab science4 hrs. ENGL 13013 hrs. MATH 1314 or 1324*3 hrs. CIS 13153 hrs. PHED 1111 or activity1 hr. 14 hrs.	Semester 2 Lab science4 hrs. ENGL 13023 hrs. CIS 23153 hrs. MATH 13253 hrs. PHED 1111 or activity1 hr. SCOM 1315 or 13213 hrs. 17 hrs.	Semester 1 CIS 23903 hrs. ENGL 2332 or 23333 hrs. ACCT 23013 hrs. ECON 23013 hrs. BUSI 1304*3 hrs. 15 hrs.	Semester 2 CIS 33603 hrs. ACCT 23023 hrs. ECON 2302*3 hrs. QBA 23423 hrs. HIST 1301 or 13023 hrs. 15 hrs.
Third Year		Fourth Year	
Semester 1 BUSI 33123 hrs. MGT 33303 hrs. FIN 33203 hrs. CIS 33503 hrs. POSC 23053 hrs. ENGL 2371, HIST 2372, PHIL 1301 or SPAN 23123 hrs. 18 hrs.	Semester 2 MKT 33403 hrs. CIS 33853 hrs. ECON adv. elective**3 hrs. QBA 3350 or 43523 hrs. Elective3 hrs. HUMA 1315, ARTS 1303, 1304, MUSI 1306 or THRE 13103 hrs. 18 hrs.	Semester 1 CIS/CS adv elective3 hrs. CIS/CS adv elective3 hrs. POSC 23063 hrs. MGT 43153 hrs. Elective3 hrs. HIST 1301 or 1302 (second course)3 hrs. 15 hrs.	Semester 2 CIS 43903 hrs. CIS/CS adv. elective3 hrs. CIS/CS adv. elective3 hrs. Elective3 hrs. 12 hrs.

*MATH 1324, SCOM 1321, ECON 2301 and BUSI 1304 are required for B.B.A.
 **12 hours CIS/CS advanced electives from CIS 3382, 4098, 4355, 4372, 4382, 4392; CS 3303, 33135, 4320.
 *** QBA 3350 or 4352 advanced elective is required.

Required Courses from Other Disciplines

- MATH 2375, 2413, 2414; QBA 2342.; general electives to total the minimum 127 hours.

Minor in Computer Science

The minor in computer science is available to any student pursuing a B.S. degree. Students wishing to complete a minor in computer science must take CIS 1315, CS 2315, 2377, and then select nine hours from CIS 3350, CS 3303, 3307, 3315, 4305, 4320, 4325, 4330, 4352 or 4385.

Curriculum Guide (suggested course sequence)			
Major in Computer Science			
First Year		Second Year	
Semester 1 Lab science4 hrs. ENGL 13013 hrs. MATH 1314 or 1324*3 hrs. HIST 1301 or 13023 hrs. CIS 13153 hrs. PHED 1111 or activity1 hr. 17 hrs.	Semester 2 Lab science4 hrs. ENGL 13023 hrs. CS 23153 hrs. SCOM 1315 or 13213 hrs. MATH or 13213 hrs. MATH (CS) 23753 hrs. 16 hrs.	Semester 1 ENGL 2332 or 23333 hrs. CS 23253 hrs. CIS 23903 hrs. QBA 2342***3 hrs. MATH 24134 hrs. 16 hrs.	Semester 2 ENGL 2371, HIST 2372, PHIL 1301 or SPAN 23123 hrs. Elective3 hrs. CS 23773 hrs. MATH 2414***4 hrs. PHED 1111 or activity1 hr. 17 hrs.
Third Year		Fourth Year	
Semester 1 HIST 1301 or 13023 hrs. HUMA 1315, ARTS 1303, 1304, MUSI 1306 or THRE 13103 hrs. Elective3 hrs. CIS 33503 hrs. CIS/CS elective**3 hrs. 15 hrs.	Semester 2 POSC 23063 hrs. ANTH 2351, ECON 2301, GEOG 1302, PSYC 2301, SOC 13013 hrs. CS 33073 hrs. CIS/CS elective**3 hrs. CIS/CS elective**3 hrs. 15 hrs.	Semester 1 CS 43523 hrs. CIS/CS elective**3 hrs. CIS/CS elective**3 hrs. CIS/CS elective**3 hrs. 15 hrs.	Semester 2 CIS 43903 hrs. CS 43253 hrs. CIS/CS elective**3 hrs. Elective3 hrs. Elective4 hrs. 16 hrs.

*Or other higher level math course.
 **21 hours advanced electives from CIS 3360, 3382, 3385, 4098, 4372, 4382, 4392, CS 3303, 3315, 4305, 4320, 4330, 4360, 4385.
 ***Required courses from other departments: MATH 2375, 2413, 2414, QBA 2342 and general elective to total the minimum 127 hours.

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 1315, 2390; CS 2315.

Computer Science Core Requirements

- CIS 3350, 4390; CS 2325, 2377, 3307, 4325, 4352.

Computer Science Advanced Electives

- 21 hours from CIS 3360, 3382, 3385, 4098, 4372, 4382, 4392; CS 3303, 3315, 4305, 4320, 4330, 4360, 4385.

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.