## COMPUTER INFORMATION SYSTEMS MAJOR

As a Business major, the CIS student learns the context and practice of business through courses in the business core. Building on this business foundation, the CIS program equips the graduate with the knowledge and understanding of information technology capabilities and implications, as well as with competency in "best-of-breed" methodologies and tools for information systems development. The CIS graduate is prepared to excel in any of the emerging and varied roles of the IT professional: business analyst, systems analyst, application developer, systems integrator, IT liaison, end-user support, network manager, vendor representative and technical support specialist.

The CIS courses integrate concept-focused and applied technology-focused material. The conceptual content emphasizes the theory and principles of information technology, computer science and management that form the discipline of information systems. The course content related to applied technology emphasizes leading-edge technologies spanning information systems solutions utilizing the World Wide Web, database systems, programming languages, networking and mobile computing apps. These courses are designed to develop professional expertise, the ability to produce value from the beginning of one's professional career, self-confidence and a can-do attitude in CIS graduates.

In addition to the specific major requirements described below, students must also complete all designated requirements in Foundations for Success, Contexts & Perspectives in the Arts & Sciences, Business Dynamics, Communication Intensive coursework, and the additional degree requirements for business majors. Details can be found in the Degree Requirements section of the catalogue, including the Overview and the Business Majors tabs.

### Course | Title | Credits
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CS 100 | Introduction to Data and Information Management | 3
CS 150 | Data-Driven Decision Making | 3
CS 180 | Programming Fundamentals | 3
CS 240 | Business Processing and Communications Infrastructure | 3
CS 350 | Database Management Systems | 3
CS 360 | Business Systems Analysis and Modeling | 3
Choose One Advanced CS elective | | 3
CS 380 | Multi-Tiered Application Development | 3
CS 440 | Advanced Net-Centric Computing | 3
CS 460 | Applied Software Project Management | 3
CS 480 | Advanced Application Development Technology | 3
Choose any two additional CS courses. Some experimental CS courses (denoted by CS 298 or CS 299) cannot be counted towards the major; please verify with the CIS major coordinator. | | 6

Qualified students in the program are highly encouraged to include an internship in their course sequence to provide on-the-job experience prior to graduation.