The Department of Computer Information Systems is a leader in technology, setting the standard for IT education. The curriculum evolves continuously to ensure that your degree features the most useful and up-to-date material valued in the industry.

What Do Computer Information Systems Professionals Do?
Information Technology (IT) professionals are responsible for helping information flow through organizations, which enables all other functions of business to be efficient and profitable. Some of the activities in this occupation may include analyzing systems; evaluating processes and developing/proposing/implementing ways to facilitate enhanced efficiency and/or profitability of those systems; programming; troubleshooting; training users and other developers; writing documentation for systems (“technical writing”); creating and maintaining databases; testing systems; consulting; and creating and maintaining websites. Careers in IT are exciting, fast-paced, challenging, ever-changing, and sometimes unpredictable. New tools and methods are often available and new skills must be continuously developed in order to stay competitive and marketable.

According to the U.S. Bureau of Labor Statistics, CIS jobs are expected to grow by 12 percent from 2018 to 2028, which is about twice the national average for all occupations. The median annual salary for CIS jobs is more than double compared to other industries.

Potential Careers in Computer Information Systems
- Bus. App. Developer
- Bus. Intelligence Analyst
- Cybersecurity Mngr.
- Data Analyst
- Database Developer Administrator
- Info. Systems Mngr.
- IT Consultant
- IT Quality Assurance Engineer
- Info. Security Analyst
- Mobile App Developer
- Network Admin.
- Project Manager
- Software Developer/Engineer
- Systems Analyst
- Systems Architect
- Tech Entrepreneur
- Technical Sales Rep.
- Technical Support Specialist
- User Interface Designer
- Web Administrator/Developer

Common Characteristics and Skills of Successful CIS Students and Professionals
- Enjoy problem solving, troubleshooting
- Fast learner, willing to learn new things
- Can lead others to productivity regarding technology
- Understands and enjoys working with technology
- Understands logic and sequencing of events
- Organization skills
- Strong analytic and planning skills
- Understands how all business functions are related
- Ability to communicate information to non-technical audiences
- Manages time well and meets deadlines
- Written communication skills
- Detail-oriented
- Strong quantitative abilities

Tips for Researching Occupations in Computer Information Systems
- Discuss career options with CIS professors
- Shadow an IT professional for a day
- Search the web for job profiles and position descriptions
- Talk to alumni of the CIS program
- Attend the Career Fair and ask recruiters about CIS jobs
- Visit with a Career Counselor in the Career Center (see the Career Center website) to see if an occupation in IT is for you
- Get an IT internship
- Know yourself and what type of work you enjoy
- Get involved with a club/organization and run for the office of Webmaster or Technical Coordinator
- Join and participate in CIS Club activities

Online Resources
www.acinet.org
www.bls.gov
This tool provides the specific regulations as a way to illustrate how the curriculum works. However, there is no substitute for working with an academic advisor; please visit with your advisor each semester as they can help you understand how the curriculum can be tailored to meet your individual needs.

### COMPUTER INFORMATION SYSTEMS CONCENTRATION - RECOMMENDED COURSE SEQUENCE

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>SOPHOMORE</th>
<th>JUNIOR</th>
<th>SENIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>All-University Core Curriculum (AUCC) 31 Credits</strong></td>
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<tr>
<td>Arts and Humanities (3B)</td>
<td>Biological and Physical Sciences (3A)</td>
<td>Students MUST complete CO150 and MATH141 by the time they complete 60 credits to avoid a registration hold.</td>
<td>Diversity and Global Awareness (3E)</td>
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<tr>
<td>Biological and Physical Sci. w/lab (3A)</td>
<td>Historical Perspectives (3D)</td>
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<td>CO150 (1A)</td>
<td>STAT204</td>
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<td>ECON204 (3C)</td>
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<tr>
<td>MATH141 (1B)</td>
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<tr>
<td><strong>Business Core 35 Credits</strong></td>
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<tr>
<td>BUS100, BUS201, CIS200</td>
<td>ACT210, ACT220, BUS220 (3B)</td>
<td>BUS260, BUS300 (2), FIN300</td>
<td>BUS479, MGT301, MGT320, MKT300</td>
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<tr>
<td><strong>Computer Information Systems Courses 24 Credits</strong></td>
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<tr>
<td>CIS240, CIS370</td>
<td>CIS320, CIS355, CIS360, 2 CIS Group 1</td>
<td>2 CIS Group 1</td>
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<tr>
<td><strong>Electives 30 Credits</strong></td>
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<tr>
<td>9 Credits of Electives</td>
<td>3 Credits of Electives</td>
<td>6 Credits of Electives</td>
<td>9 Credits of Electives</td>
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### UPDATED CIS CURRICULUM

**ENFORCED FOR ALL STUDENTS GRADUATING FALL 2020 OR LATER**

### COMPUTER INFORMATION SYSTEMS COURSES (24 CREDITS)

<table>
<thead>
<tr>
<th>COURSE</th>
<th>TITLE</th>
<th>PREREQUISITE(S)*</th>
<th>SEMESTER(S) OFFERED**</th>
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<tbody>
<tr>
<td>REQUIRED</td>
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<tr>
<td>CIS240</td>
<td>Application Design and Development</td>
<td>CIS200</td>
<td>fall, spring</td>
</tr>
<tr>
<td>CIS320</td>
<td>Project Management for Information Systems</td>
<td>CIS200</td>
<td>fall, spring</td>
</tr>
<tr>
<td>CIS355</td>
<td>Business Database Systems</td>
<td>CIS200</td>
<td>fall, spring</td>
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<tr>
<td>CIS360</td>
<td>Systems Analysis and Design</td>
<td>CIS240</td>
<td>fall, spring</td>
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<tr>
<td>CIS340</td>
<td>Advanced Application Design and Development</td>
<td>CIS240</td>
<td>fall, spring</td>
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<tr>
<td>CIS350</td>
<td>Operating Systems and Networks</td>
<td>CIS240</td>
<td>fall</td>
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<td>CIS410</td>
<td>Web Application Development</td>
<td>CIS240, CIS355</td>
<td>fall</td>
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<td>CIS411</td>
<td>Enterprise Resource Planning Systems</td>
<td>ACT220, FIN300, MGT320, MKT300</td>
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<td>CIS413</td>
<td>Advanced Networking and Security</td>
<td>CIS350</td>
<td>fall</td>
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<tr>
<td>CIS455</td>
<td>Advanced Database Management</td>
<td>CIS355</td>
<td>spring</td>
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<tr>
<td>CIS575</td>
<td>Applied Data Mining and Analytics in Business</td>
<td>STAT204</td>
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<tr>
<td>CIS576</td>
<td>Business Data Visualization</td>
<td>CIS575</td>
<td>spring</td>
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</table>

* Courses may be restricted to specific class levels, use the Course Schedule/registration system (via Ram Web) to view restrictions.

** Terms listed are when the College of Business anticipates each course will be offered and should be utilized with the guidance of your academic advisor for future planning purposes. Courses may be offered in terms different than those listed. You should always use the Course Schedule/registration system (via Ram Web) to view the most up-to-date course offerings.

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CIS Department
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Internship Coordinator
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Internship criteria on Handshake: csu.bz/ForCreditInternships

Updated: 02/28/2020