CIS Concentration

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; trouble shooting; 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.

Potential Careers in Computer Information Systems
- Consultant
- Database Developer/Administrator
- Software Engineer
- Network Administrator
- Project Manager
- Technical Officer
- Technical Trainer
- Documentation/Technical Writer
- Info Technology Quality Assurance
- Technical Support
- User Interface Designer
- Security Manager
- Internet/Intranet Manager
- Telecommunications Specialist
- Computer Programmer
- Webmaster
- Technical Salesperson
- Entrepreneur

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
- 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
- Talk with a career counselor
- Take an online assessment (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
- Attend guest lectures hosted by the CIS Club

Online Resources
www.career.colostate.edu
www.acinet.org
Computer Information Systems Concentration

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.

## CIS Concentration Recommended Course Sequence

### All-University Core Curriculum (AUCC) 31 Credits

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>SOPHOMORE</th>
<th>JUNIOR</th>
<th>SENIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO150 (Written Communication, 1A)</td>
<td>Science (Biological/Physical Sciences, 3A)</td>
<td>Historical Perspectives (3D)</td>
<td>Global &amp; Cultural Awareness (3E)</td>
</tr>
<tr>
<td>ECON202 (Social/Behavioral Sciences, 3C)</td>
<td>ECON204 (3C)</td>
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<tr>
<td>MATH141 (Mathematics, 1B)</td>
<td>STAT204</td>
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<tr>
<td>Lab Science (Biological/Physical Sciences, 3A)</td>
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<tr>
<td>Arts &amp; Humanities (3B)</td>
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- Students MUST complete CO150 and MATH141 by the time they complete 60 credits to avoid a registration hold.

### Business Core 35 Credits

| BUS100, BUS201, CIS200 | ACT210, ACT220, BUS220 (3B) | BUS260, BUS300 (2B), FIN300 | MGT301, MGT320, MKT300, BUS479 |

### CIS Concentration 24 Credits

| CIS210, CIS240 | CIS320, CIS350, CIS355 | CIS360, (CIS340 or CIS410), (CIS340, CIS410, CIS411, CIS413) |

### Electives 30 Credits

- 9 Credits of Electives
- 6 Credits of Electives
- 9 Credits of Electives
- 6 Credits of Electives

## CIS 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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</thead>
<tbody>
<tr>
<td>CIS210</td>
<td>Information Technology in Business</td>
<td>CIS200 (co-requisite)</td>
<td>fall, spring, summer</td>
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<tr>
<td>CIS240</td>
<td>Application Design and Development</td>
<td>CIS210</td>
<td>fall, spring, summer</td>
</tr>
<tr>
<td>CIS320</td>
<td>Project Management for Information Systems</td>
<td>CIS210</td>
<td>fall, spring</td>
</tr>
<tr>
<td>CIS350</td>
<td>Operating Systems and Networks</td>
<td>CIS210</td>
<td>fall, spring</td>
</tr>
<tr>
<td>CIS355</td>
<td>Business Database Systems</td>
<td>CIS210</td>
<td>fall, spring</td>
</tr>
<tr>
<td>CIS360</td>
<td>Systems Analysis and Design</td>
<td>CIS240</td>
<td>fall, spring</td>
</tr>
</tbody>
</table>

- CIS Group 1 Requirement Choose 1

| CIS340 | Advanced Application Design and Development | CIS240 | fall, spring |
| CIS410 | Web Application Development | CIS240 and CIS355 | fall only |

- CIS Group 2 Requirement Choose 1

| CIS340 | Advanced Application Design and Development | CIS240 | fall, spring |
| CIS410 | Web Application Development | CIS240 and CIS355 | fall only |
| CIS411 | Enterprise and Resource Planning Systems | ACT220, FIN300, MKT300, MGT320 | spring only |
| CIS413 | Advanced Networking and Security | CIS240 and CIS350 | fall only |

## MORE INFO

### CIS Department

Chair: Dr. Jon Clark  
153 Rockwell Hall  
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### Internship Coordinator

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