Analyze and design information systems to solve strategic business problems with the Information Systems major. It is imperative that technology works effectively and reliably in the workplace; and with this degree, you will learn how to manage, store, transmit and provide ready access to information for businesses.

First Year

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>CBE 100 First-Year Seminar</td>
<td>CSIS 162 Programming II <em>(C or better in CSIS 161)</em></td>
</tr>
<tr>
<td>CSIS 161 Programming I <em>(Math 146)</em></td>
<td>GEN ED: COMS 101 Public Speaking (CS)</td>
</tr>
<tr>
<td>ENGL 100 Academic Reading/Writing (CW)</td>
<td>Choose: GEN ED</td>
</tr>
<tr>
<td>MATH 156 Calc for the Bus. and Social Sci or MATH 166 Calc I <em>(Math 146) (M)</em></td>
<td>Choose: GEN ED</td>
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<tr>
<td>Choose: GEN ED</td>
<td>Choose: GEN ED</td>
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<td>Choose: GEN ED</td>
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<td>Choose: GEN ED</td>
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</tbody>
</table>

**Total: 14-15 credits**

**First Year Advising Notes:** No need to worry about choosing between Computer Science or Information Systems—the first year requirements are the same. A minor or double major is encouraged for Information Systems majors, so start thinking about what you might want to pursue.

**Goals:** Talk to your academic advisor about your interests and goals and understand career options for Information Systems majors. Do you want to study abroad? Talk with the Office for International Education to find a program that works for you. Begin to think about double majors, minors, etc. Explore student groups and join one that interests you. Information Systems students should join the Association for Computing Machinery (ACM) Student Group.

Second Year

<table>
<thead>
<tr>
<th>FALL</th>
<th>SPRING</th>
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</thead>
<tbody>
<tr>
<td>CSIS 215 Info Systems for Business Mngt <em>(CBE 100)</em></td>
<td>CSIS 247 Introduction to Computer Networks <em>(CSIS 161)</em></td>
</tr>
<tr>
<td>CSIS 235 Object-Oriented Programming <em>(C or better in CSIS 162)</em></td>
<td>CSIS 333 Database Management Systems <em>(CSIS 162)</em></td>
</tr>
<tr>
<td>ECON/MATH 226 Fundamentals of Statistics <em>(MATH 146)</em></td>
<td>Choose: GEN ED</td>
</tr>
<tr>
<td>Choose: GEN ED</td>
<td>2nd Major/Minor/2nd Major/Minor/General Elective</td>
</tr>
<tr>
<td>Choose: GEN ED</td>
<td>2nd Major/Minor/2nd Major/Minor/General Elective</td>
</tr>
</tbody>
</table>

**Total: 15 credits**

**Second Year Advising Notes:** If you’re thinking about completing an internship for credit, you need to have the following courses complete: CSIS 161, 162, 235, 247, 333. You can earn up to 6 credits for an internship in Information Systems. Have you declared a second major or minor yet?

**Goals:** Explore Information Systems careers. Meet with Career Services to discuss how your interests and skills might fit into a career path. Explore leadership positions within student organizations.
### Third Year

#### FALL
- **CBE 300 Professional Development** 1
- **CSIS 423 Intro to Systems Analysis (CSIS 333 concurrently)** 3
- Directed Elective (listed below) 3
- Required Supporting (listed below) 3
- 2nd Major/Minor/2nd Major/Minor/General Elective 3
- GEN ED PE 108 (HW) 1

Total: 14 credits

#### SPRING
- **CSIS 433 Design Analysis MIS (CSIS 333 & 423)** 3
- Directed Elective (listed below) 3
- Required Supporting (listed below) 3
- Required Supporting (listed below) 3
- 2nd Major/Minor/2nd Major/Minor/General Elective 3

Total: 15 credits

**Third Year Advising Notes:** At this point you will transition to an Information Systems faculty advisor. Make sure you are following the course sequence as many CSIS courses are only offered as fall only or spring only offerings.

**Goals:** Attend the campus career fair both fall and spring, as well as networking events and employer information meetings. Pursue a leadership position in a student organization. Participate in Career Trek to get to know specific industries and connect with employers.

### Fourth Year

#### FALL
- **CSIS 440 IS Project Management (ECON/MATH 226)** 3
- Required Supporting (listed below) 3
- Choose: Global Perspective (G) 3
- 2nd Major/Minor/General Elective 3
- 2nd Major/Minor/General Elective 3

Total: 15 credits

#### SPRING
- **CSIS 484 Sr. Capstone Seminar or CSIS 379 Internship** 3
- Required Supporting (listed below) 3
- Choose: American Cultural Diversity (D) 3
- 2nd Major/Minor/General Elective 3
- 2nd Major/Minor/General Elective 3

Total: 15 credits

**Fourth Year Advising Notes:** Apply for graduation at the beginning of your final semester!

**Goals:** Meet with Career Services to perfect your cover letter and resume and start getting your applications out. Attend networking events, career fairs, and employer information meetings. Participate in a Career Trek.

#### Employers (sample listing)
- Thrivent Financial
- 3M
- State of Minnesota—IT
- CHS
- St. Jude Medical
- Prime Therapeutics
- Infinite Campus

#### Career Titles (sample listing)
- Application Developer
- Project Manager
- Programmer/ Analyst
- IT Support Specialist
- IT Consultant
- Quality Assurance Specialist
- Software Engineer

#### General Education Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>ENGL 100 &amp; 200</strong></td>
<td></td>
</tr>
<tr>
<td>Humanities &amp; Fine Arts (HF)</td>
<td></td>
</tr>
<tr>
<td>2 Courses Required</td>
<td></td>
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<tr>
<td><strong>Ethical Citizenship (EC)</strong></td>
<td></td>
</tr>
<tr>
<td>Communication/Speaking &amp; Listening (CS) (met by COMS 116)</td>
<td>3</td>
</tr>
<tr>
<td>Math (M) (met by major requirements)</td>
<td></td>
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<tr>
<td><strong>Health &amp; Wellness (HW)</strong></td>
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<tr>
<td><strong>PE 108</strong></td>
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<tr>
<td>Social &amp; Behavioral Sciences (SB)</td>
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<tr>
<td>2 Courses Required</td>
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<tr>
<td>Science Inquiry (SI)</td>
<td></td>
</tr>
<tr>
<td>2 Courses Required</td>
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<tr>
<td><strong>Total: 31 credits</strong></td>
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</table>

**University Requirements**
- American Cultural Diversity
- Global Perspectives

- Shaded courses are only offered in the indicated semester.
- Course pre-requisites are listed next to the course.

**IS Directed Electives**
- Choose two courses from the following:
  - CSIS 225 Web Development
  - ECON 326 Stats for Bus & Economics
  - MNGT 318 Operations Research
  - MNGT 340 Ethical Leadership
  - MNGT 350 Decision Making
  - GEOG 250 Intro to GISci
  - 300-400 CSIS level courses in consultation with advisor

**IS Required Supporting Courses**
- Business Courses
  - COMS 101 Bus and Prof Comm or ENGL 266 Bus Writing
  - MNGT 300 Management and Organizational Behavior
  - MNGT 365 Business Process Management
  - One course from MNGT 320, ACCT 231, or MNGT 361
- Math Courses
  - MATH 156/166 Calculus for Bus & Social Sci or Calc I
  - ECON/MATH 226 Statistics

**University Requirements**
- General Education 31 Credits
- University Requirements 6 Credits
- Major 60 Credits
- 2nd Major/Minor/General Electives 23 Credits

**Total Credits Needed for Degree:** 120

May 2017