COMPUTER INFORMATION SYSTEMS - MINOR

Ambassador Crawford College of Business and Entrepreneurship
Department of Information Systems and Business Analytics
www.kent.edu/business

About This Program
The Computer Information Systems minor provides a strong foundation in the latest technologies and practical skills needed for a successful career in the field. With expert faculty and access to cutting-edge resources, you'll be well-prepared to meet the demands of the ever-evolving technology industry. Choose Kent State and take the first step towards an exciting career in computer information systems.

Contact Information
- Jose Benitez | jbenitez1@kent.edu |
  330-672-1141
- Speak with an Advisor

Program Delivery
- Delivery:
  - In person
- Location:
  - Kent Campus

Admission Requirements
Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and major in the same discipline.

To declare the Computer Information Systems minor, students must have a minimum 2.250 overall Kent State University GPA. No Kent State University GPA is required if the student is a first-semester freshman or transfer student admitted in good standing.

Program Requirements

Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 34034</td>
<td>BUSINESS MODELING AND AGILE DESIGN</td>
<td>3</td>
</tr>
<tr>
<td>CIS 34054</td>
<td>USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS</td>
<td>3</td>
</tr>
<tr>
<td>CIS 44151</td>
<td>INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE</td>
<td>3</td>
</tr>
<tr>
<td>Minor Electives, choose from the following: 1</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Designing Innovative Information Systems</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CIS 34167</td>
<td>DESIGNING INNOVATIVE PROGRAMS AND APPS</td>
<td></td>
</tr>
</tbody>
</table>

Digital Transformation Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 44040</td>
<td>DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS</td>
<td></td>
</tr>
<tr>
<td>CIS 44043</td>
<td>DATABASE DESIGN AND DATA GOVERNANCE</td>
<td></td>
</tr>
<tr>
<td>CIS 44008</td>
<td>MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS</td>
<td></td>
</tr>
<tr>
<td>CIS 44041</td>
<td>MANAGING CYBERSECURITY</td>
<td></td>
</tr>
<tr>
<td>CIS 44046</td>
<td>HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION</td>
<td></td>
</tr>
</tbody>
</table>

Additional Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BA 44050</td>
<td>DATA VISUALIZATION</td>
<td></td>
</tr>
<tr>
<td>CIS 44292</td>
<td>BUSINESS EXPERIENCE AND INTERNSHIP (ELR)</td>
<td></td>
</tr>
</tbody>
</table>

Minimum Total Credit Hours: 18

1 Students may take any courses in this section to fulfill the minor electives.

Graduation Requirements

Minimum Minor GPA 2.250
Minimum Overall GPA 2.000

- Students are expected to satisfy course prerequisites for each course required in the minor. Prerequisites are not tied to a particular catalog; therefore it is important to look at the most current information about a course.
- Students may not pursue a minor and major in the same discipline.
- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

Program Learning Outcomes
Graduates of this program will be able to:

1. Perform effectively in digital transformation management and information systems design projects.
2. Navigate and use emerging digital technologies and platforms.
3. Design, code, and implement information systems, databases, and applications on-premise and in the cloud.
5. Bridge, integrate, deploy and manage cybersecurity and data governance across various information systems and analytics systems.

Full Description
The Computer Information Systems minor is self-contained and assumes essentially no prior experience with the usage of information systems (IS) and digital technologies in organizations. It complements students’ primary career field by providing foundational knowledge, hands-on experience and information technology (IT) and business managerial skills in digital transformation management and/or the
design of innovative information systems that are commonly used in organizations to create business value.

This up-to-date minor offers a techie-for-future IT and business managers structure starting with an introduction to IS and emerging digital technologies (e.g., social media, mobile, collaborative tools). The minor continues providing the foundations and hands-on activities to use IS and digital technologies for solving business problems. The academic backbone of the minor concludes with the pillars of business modeling and agile design and artificial intelligence-based innovation.

Students can complete two possible minor elective tracks: Designing Innovative Information Systems or Digital Transformation Management. Alternatively, the student can customize the major elective path by selecting 9 credit hours from the list of major electives in a flexible and student-centric way. The Digital Transformation track focuses on providing the knowledge and managerial skills related to managing cybersecurity, managing agile digital transformation projects and on how to lead and manage digital transformation. The Designing Innovative Information Systems track focuses on providing the technical foundations and skills to design innovative programs and apps, design innovative server-side systems and design databases and data governance.