

# COMPUTER INFORMATION SYSTEMS - MINOR

Ambassador Crawford College of Business and Entrepreneurship  
 Department of Information Systems and Business Analytics  
[www.kent.edu/business](http://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. Read more...

## Contact Information

- Program Coordinator: **Jose Benitez** | [jbenitez1@kent.edu](mailto: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 a 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

Code	Title	Credit Hours
<b>Minor Requirements</b>		
CIS 34034	BUSINESS MODELING AND AGILE DESIGN	3
CIS 34054	USING INFORMATION SYSTEMS AND DIGITAL TECHNOLOGIES FOR SOLVING BUSINESS PROBLEMS	3
CIS 44151	INNOVATING WITH DIGITAL TECHNOLOGIES AND ARTIFICIAL INTELLIGENCE	3
Minor Electives, choose from the following: <sup>2</sup>		9
<b>Designing Innovative Information Systems</b>		
CIS 34167	DESIGNING INNOVATIVE PROGRAMS AND APPS	

CIS 44040	DESIGNING INNOVATIVE SERVER-SIDE SYSTEMS
CIS 44043	DATABASE DESIGN AND DATA GOVERNANCE
<b>Digital Transformation Management</b>	
CIS 44008	MANAGING AGILE DIGITAL TRANSFORMATION PROJECTS
CIS 44041	MANAGING CYBERSECURITY
CIS 44046	HOW TO LEAD AND MANAGE DIGITAL TRANSFORMATION
<b>Additional Electives</b>	
BA 44050	DATA VISUALIZATION
CIS 44292	BUSINESS EXPERIENCE AND INTERNSHIP (ELR)

**Minimum Total Credit Hours: 18**

<sup>1</sup> Students declared in the Aeronautics major, Aviation Management concentration, may substitute ENGR 11000 in place of CIS 24053.

<sup>2</sup> Students may take any courses in this section to fulfill the minor electives.

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.250	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.
4. Design, select and deploy digital transformation solutions and strategies.
5. Bridge, integrate, deploy and manage cybersecurity and data governance across various information systems and analytics systems.
6. Lead and manage digital transformation projects.

## 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.