

# COMPUTER INFORMATION SYSTEMS > WEB SPECIALIST

Do you spend a good part of your day on the web and want to turn that passion for understanding the internet into a career? If so, consider the Web Specialist degree program at Wayne State College. You'll learn principles and concepts of computing along with organizational and business concepts. You'll gain practical skills in the areas of computer programming, website development, e-commerce, systems development, social media, hardware, operating systems, and databases. You'll be able to work independently, as well as in groups across a range of diverse situations. With a computer information systems degree, you'll be ready for a wide variety of careers in the information technology sector. Or, you can choose a more specific path in areas related to web and online services, website development, or user interface (UI) and application development.

## fast facts

**Credit hours:** 57

*Students must also take 30 credit hours of General Studies courses. A total of 120 credit hours are needed to graduate from WSC. Additional majors or minors can be added to help meet graduation requirements.*

**Degree options:** B.A. or B.S.

**Department:** Computer Technology and Information Systems

**School:** Business and Technology

**Popular pairings:** Business Administration, Computer Science, Graphic Design, Online and Social Media, Networking and Cybersecurity, Web and Mobile App Design

## focus on results

**Skills Learned**

- Advanced web design
- Scripting languages
- Object-oriented programming
- Internet and web technology for e-commerce
- Analysis and design of computer information systems
- Networking concepts and technologies
- Database design and development using SQL
- Computer troubleshooting
- Time management and organization
- Critical thinking and problem-solving

**Possible Careers**

- Web developer
- Web designer
- UI / UX designer
- Programmer
- Application developer
- Software developer
- Systems analyst
- Project manager
- Social media manager
- IT administrator
- E-commerce specialist
- Social media manager

**Types of Employers**

- Advertising agencies
- Online retailers
- Marketing or design firms
- IT companies
- Businesses and corporations
- Web development companies
- Banking and financial institutions
- Insurance companies
- Schools, colleges, and universities
- Technical support centers
- Self-employment

## outside the classroom

**Activities/Opportunities**

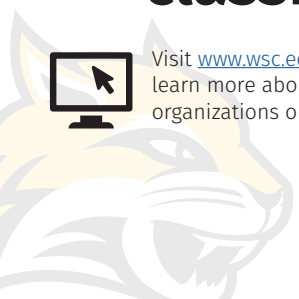
- Career Scholars Program
- Programming and robotics competitions
- Workshops and presentations
- Peer tutoring and mentoring
- Service-Learning
- Study Abroad

**Clubs/Organizations**

- Association for Computing Machinery (ACM)
- SkillsUSA
- Upsilon Pi Epsilon (International Computing Honorary)



Visit [www.wsc.edu/clubs](http://www.wsc.edu/clubs) to learn more about clubs and organizations on campus.



# Courses and outcomes

2026-27 Academic Year

The following courses are required for the program of study described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for registering and taking these courses, please consult the current academic catalog and your advisor.

## Program courses

### Computer Information Systems Core Courses

|                                                              |   |
|--------------------------------------------------------------|---|
| CIS 132 Principles of Computing and Information Systems..... | 3 |
| CIS 171 Networking I.....                                    | 3 |
| CIS 360 Software Engineering I.....                          | 3 |
| CIS 361 Software Engineering II.....                         | 3 |
| CIS 366 Introduction to Database.....                        | 3 |
| CIS 372 Computer Hardware and Operating Systems.....         | 3 |
| CIS 430 Management Information Systems.....                  | 3 |
| CIS 480 Seminar in Computer Information Systems.....         | 3 |
| CSC 150 Programming Fundamentals I.....                      | 3 |
| CSC 165 Web Development I.....                               | 3 |
| CSC 302 Fundamentals of Artificial Intelligence.....         | 3 |
| CSC 380 Operating Systems.....                               | 3 |

### Web Specialist Concentration Courses

|                                                 |   |
|-------------------------------------------------|---|
| CIS 272 Principles of Cybersecurity.....        | 3 |
| CIS 375 Introduction to E-Commerce.....         | 3 |
| CIS 462 Software Engineering III.....           | 3 |
| CIS 477 Project Management.....                 | 3 |
| CSC 326 Intermediate Web Development.....       | 3 |
| CSC 363 Full Stack Application Development..... | 3 |
| Elective (upper-level CIS or CSC course).....   | 3 |

## Student learning outcomes

1. Apply the foundational concepts of computer information systems
2. Work in team settings found in computer information systems contexts
3. Communicate in professional computer information systems contexts
4. Establish a plan for maintaining professional relevance in computer information systems
5. Apply an appropriate ethical framework to a computer information systems ethical dilemma

## computer information systems faculty



Visit [www.wsc.edu/computer-technology-information-systems-department](http://www.wsc.edu/computer-technology-information-systems-department) to learn more about the Department of Computer Technology and Information Systems.

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