

Computer Information Systems

Associate Degree in Applied Science

Program Description

Provides students with in-depth skills and knowledge in a broad range of IT disciplines including programming, database development, PC repair, networking, operating systems, security, web development, and system analysis and design. Courses in the CIS program include extensive hands-on laboratory work in current industry technology and software, such as PHP, MySQL, Oracle, .NET, Java and Mobile Application Development. HFC is also a member of Microsoft's MSDN Academic Alliance Program which allows the College to provide students with many of their development tools at an affordable cost.

Program Learning Outcomes

Upon successful completion of this program, students should be able to:

1. Operate a personal computer and productivity software installed on it, including Microsoft Office, file management, the Internet/Web, e-mail, and input/output/storage devices.
2. Explain the importance of personal responsibility and security in a technological world, including copyright laws, netiquette, ethics, privacy issues, and security threats.
3. Design, create and manipulate with an enterprise database.
4. Explain networking standards, protocols, transmission media, and hardware.
5. Write computer programs using several programming languages, both procedural and object-oriented.
6. Explain the client-server model of web development and develop client and server-side web pages.
7. Interface with the Unix/Linux operating system, including the vi editor, file management, and shell scripting.
8. Analyze, design, and implement an information system.
9. Create and deliver a professional team presentation.

Career Opportunities

- Programmer
- Systems Analyst
- Application Developer
- Software Engineer
- Database Administrator
- Project Manager

Transfer Agreements:

- Bachelor of Science in Information Systems - Assurance Specialist 3+1 agreement with Baker College
- Bachelor of Science in Information Systems - Project Management 3+1 agreement with Baker College
- Bachelor Degree (Many Programs) other agreement with Davenport University
- Bachelor Degree in Honors 2+2 agreement with Eastern Michigan University
- Bachelor of Business Administration - Computer Information Systems 3+1 agreement with Eastern Michigan University
- Bachelor of Integrated Studies 2+2 agreement with Oakland University
- Bachelor of Applied Science 2+2 agreement with Purdue Fort Wayne
- Bachelor of Applied Science 3+1 agreement with Siena Heights University