

### Office Automation and Database Classes

This area covers basic office skills currently in demand. Students seeking careers in this area should take classes in the core areas and also in the “in demand” areas.

#### Core Areas

1. Introduction to Personal Computer – CIS 100
2. Microsoft Word – CIS 123
3. Microsoft PowerPoint – CIS 104
4. Microsoft Excel – CIS 106
5. Microsoft Access – CIS 142

#### In Demand Areas – Database and Information Systems

1. Advanced Excel – CIS 205
2. Advanced Access – CIS 242
3. Intro to Python – CIS 201
4. Information Systems – CIS 111

#### In Demand Areas – Office Web

1. Intro to Internet – CIS 150
2. Intro to Web Design – CIS 152

### Web Development Classes

This area covers Web development and Web programming.

#### Core Classes

1. Intro to the Internet – CIS 150
2. Intro to Web Design – CIS 152
3. Business Web Graphics – CIS 153
4. Intro to JavaScript – CIS 154
5. Web Design II – CIS 157
6. Web Page Layout with CMS – CIS 176
7. Web Design III – CIS 177

#### In Demand - Web Programming

1. Intro to Python – CIS 201
2. Web Server Programming – CIS 220
3. PHP and MySQL Programming – CIS 230

## Networking Technology Classes

### Core Classes

1. Intro to Microsoft Windows – CIS 107
2. Intro to Networking – CIS 180
3. Intro to Networking Hardware – CIS 281
4. Windows Server – CIS 285
5. Linux Operating System – CIS 290

### In Demand – Networking Security and Scripting

1. Intro to Python - CIS 201
2. Personal Computer Security – CIS 109
3. Network Security Fundamentals – CIS 183
4. Computer Scripting – CIS 222

### In Demand – Server Management

1. SQL Server Management – CIS 270
2. Web Server Management – CIS 286
3. Exchange Server Management – CIS 287
4. Active Directory – CIS 289
5. Introduction to Oracle – CIS 280

## Software Development Classes

This area covers software development and programming

### Core Classes

1. Introduction to Python – CIS 201
2. Visual Basic Programming – CIS 217
3. C# Programming – CIS 221
4. Java Programming – CIS 226
5. C++ Programming – CIS 223

### In Demand – Advanced Programming and Systems Design

1. Systems Analysis and Design – CIS 130
2. Advanced Java – CIS 228
3. Advanced C# Programming – CIS 227

### In Demand – Specialized Programming

1. Mobile Applications – CIS 240
2. Robot Programming – CIS 212
3. Web Server Programming – CIS 220

## Cyber Security Classes

This area covers cyber security for personal computers and network systems

### Core Classes

1. Windows Operating System – CIS 107
2. Personal Computer Security - CIS 109
3. Intro to Cyber Security – CIS 160
4. Cyber Security and Networking – CIS 165
5. Cyber Security and Operating Systems – CIS 166
6. Cyber Security Tools – CIS 168
7. Ethical Hacking – CIS 171

### In Demand – Cyber Security Software

1. Introduction to Python – CIS 201
2. Introduction to C++ - CIS 223
3. Introduction to Java – CIS 226
4. Computer Scripting – CIS 222
5. Introduction to Mobile Apps – CIS 240

### In Demand – Network and Web Security

1. Web Server programming – CIS 220
2. PHP and MySQL – CIS 230
3. Windows Server – CIS 285
4. Web Server Management – CIS 286
5. Linux – CIS 290

## Game Design and Programming

This area covers the basics of game design and game programming

### Core Classes

1. Intro to Game Design – CISG 100
2. Advanced Computer Game Design – CISG 101
3. Intro to Game Programming – CISG 110
4. Intro to Python Programming – CIS 201

### In Demand – General Game Software Development

1. C# for Game Programming – CISG 160
2. C++ for Game Programming – CISG 165
3. Java for Game Programming – CISG 170

### In Demand – Specialized Game Programming

1. Programming Multiuser Games – CISG 190
2. Artificial Intelligence in Game Programming – CISG 185

3. Multimedia Game Programming – CIS 175
4. Graphics Programming – CISG 182