



**COMPUTER INFORMATION SYSTEMS (BS):  
PROGRAMMING SPECIALTY**

**2019-2020 RECOMMENDED PROGRAM SEQUENCE (Full-time)  
120 CREDITS**

**CINFO SYS BS (CTPR)**

| FRESHMAN YEAR   |  |                 |   |  |                 |
|---|--|-----------------|---|--|-----------------|
| <u>Fall Semester</u>  |  | (15 credits)    | <u>Winter Semester</u>  |  | (15-16 credits) |
| ACES100   | Achieving Career and Education Success   | 3               | CISP247   | Database Design  | 3               |
| CISP111   | Requirements Planning and Development  | 3               | COMM120   | Presentation Techniques  | 3               |
| ENGL109   | Composition  | 3               | CSCI231   | Introduction to Programming  | 3               |
|   | Open Electives   | 6               | ENGL110   | Advanced Composition   | 3               |
|   |  |                 | MATH215 or<br>MATH140   | Calculus I or<br>Finite Math   | 3 or 4          |
| SOPHOMORE YEAR  |  |                 |   |  |                 |
| <u>Fall Semester</u>  |  | (15-16 credits) | <u>Winter Semester</u>  |  | (15 credits)    |
| ACCT200 or<br>ACCT201   | Accounting Basics for Managers or<br>Accounting Foundations I  | 3 or 4          | BUSN210   | Professional Ethics  | 3               |
| GPMT287   | Principles of Project Management   | 3               | CISP220   | Web Page Applications  | 3               |
| MGMT211   | Management Foundations   | 3               | CISP309   | Database Systems   | 3               |
| SOSC201   | Diversity in Society   | 3               | CSCI232 or<br>CSCI234 or<br>CSCI239                             | Object-Oriented Programming with C++ or<br>Object-Oriented Programming with C# or<br>Object-Oriented Programming with Java | 3               |
|   | Open Elective  | 3               | STAT220   | Introduction to Statistics   | 3               |
| JUNIOR YEAR   |  |                 |   |  |                 |
| <u>Fall Semester</u>  |  | (15 credits)    | <u>Winter Semester</u>  |  | (15 credits)    |
| CISP238   | Server Side Scripting I  | 3               | CISP211   | E-Business   | 3               |
| CSCI312   | Data Structures and Algorithms   | 3               | ENGL311   | Professional Writing   | 3               |
| DATA275   | Data Analytics & Methods   | 3               | SOCS301   | Globalization and World Diversity  | 3               |
| MATH250   | Discrete Structures  | 3               |   | Open Elective  | 3               |
| <b>Choose one of the following that has not been completed:</b> |  |                 | <b>Choose one of the following that has not been completed:</b> |  |                 |
| CSCI232 or<br>CSCI234 or<br>CSCI239                             | Object-Oriented Programming with C++ or<br>Object-Oriented Programming with C# or<br>Object-Oriented Programming with Java | 3               | CSCI232 or<br>CSCI234 or<br>CSCI239                             | Object-Oriented Programming with C++ or<br>Object-Oriented Programming with C# or<br>Object-Oriented Programming with Java | 3               |
| SENIOR YEAR   |  |                 |   |  |                 |
| <u>Fall Semester</u>  |  | (15 credits)    | <u>Winter Semester</u>  |  | (13-15 credits) |
| CISP340   | Mobile Application Development I   | 3               | CISP410   | Systems Integration  | 3               |
| CISP401   | Systems Analysis and Design  | 3               | CSCI430   | Operating Systems  | 3               |
| CSCI342   | Advanced Object-Oriented Programming   | 3               | TECH497   | College of Technology Capstone   | 3               |
| CSCI420   | Parallel and Distributed Systems   | 3               |   | Open Elective  | 4-6             |
| CISP490 or<br>TECH489   | Computer Information Systems Internship or<br>Field Experience in Technology   | 3               |   |  |                 |

This information is subject to change and cannot be considered an agreement or contract between individual students and Davenport University. Refer to the current University catalog to confirm degree requirements.