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# Academic Planning Sheet

## B.S.

### Computer Information Systems

#### Software Development Emphasis

#### Colorado State University - Pueblo

**2018-2019 Catalog**

### General Education Requirements:  (36 semester hours)

- ENG 101: English Composition I (3)
- ENG 102: English Composition II (3)
- MATH
  - MATH 121: College Algebra (4)
- Humanities Courses (9)
  - COMR 103: Speech Communication (3)
- History Course (3)
- Social Sciences (6)
  - ECON 201 & ECON 202 if Business Minor
- Natural and Physical Sciences Courses (8) (2 courses with labs)

### Major Quantitative Analysis Requirements:  (10 semester hours)

- MATH 220: Quantitative Analysis for Business (4)
- BUSAD 265: Inferential Statistics & Problem Solving (3)
- BUSAD 360: Advanced Business Statistics (3)

### Required Related Courses:  (9 semester hours)

- BUSAD 270: Business Communications (3)
- MGMT 201: Principles of Management (3)
- MGMT 368: Project Management (3)
- Open Elective (3)

### CIS Major Requirements:  (52 semester hours)

- CIS 100: Introduction to Word and Windows (1)
- CIS 103: PowerPoint and Web Publishing (1)
- CIS 104: Excel Spreadsheets (1)
- CIS 105: MS Access DBMS (1)
- CIS 150: Computer Information Systems (3)
- CIS 171: Introduction to Java Programming (4)

### CIS Major Requirements (continued):

- CIS 185: PC Architecture (3)
- CIS 240: Object Oriented Analysis and Design (3)
- CIS 271: Advanced Program Design with Java (4)
- CIS 289: Network Concepts (3)
- CIS 311: Introduction to Web Development (3)
- CIS 315: Unix Operating System (3)
- CIS 350: Database Management (3)
- CIS 432: Senior Professional Project (6)
- CIS 493: Senior Seminar (1)
- CIS 3/400: Emphasis Area Electives (12) (see elective choices below)

### CIS 3/400 Emphasis Area Elective Courses:  (12 semester hours)

- CIS 365: Management Information Systems (3)
- CIS 450: Advanced Data Analytics (3)
- CIS 490: Special Projects (1-5)
- CIS 491: Special Topics (1-5)
- CIS 498: Internship (1-5)

### Software Development Emphasis:  (13 semester hours)

- CIS 356: iOS Application Development (3)
- CIS 359: Advanced Programming with C# (3)
- CIS 386: Android Application Development (3)
- CIS 411: Internet Server-Side Programming (3)
- CIS 3/400: Emphasis Area Electives (1)

### Institutional Graduation Requirements:

- Total of 120 semester hours, minimum.
- Complete a minimum of 40 semester hours in upper-division courses.
- Overall cumulative grade point average of 2.00.
- A minimum of 60 semester hours must be earned from a four-year institution. Of these, a minimum of 30 semester hours of credit must be earned in residence.
- Of the last 30 semester credits earned immediately preceding graduation, no more than 15 may be completed at other colleges or universities.
- All other requirements as specified in the Catalog.

### Additional Major Graduation Requirements:

- Students must maintain grades of C or higher in all CIS courses.
- All required CIS prerequisites must be completed with a grade of C or better.
- Students must complete no fewer than 21 credits of CIS upper-division course work. At least 16 of these upper-division credits must be taken in residence.

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