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ACADEMIC PLANNING SHEET

B.S.
COMPUTER INFORMATION SYSTEMS
CYBER SECURITY 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)

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.

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 356: iOS Application Development (3)
- CIS 359: Advanced Programming with C# (3)
- CIS 365: Management Information Systems (3)
- CIS 411: Internet Server-Side Programming (3)
- CIS 450: Advanced Data Analytics (3)
- CIS 490: Special Projects (1-5)
- CIS 491: Special Topics (1-5)
- CIS 498: Internship (1-5)

Cyber Security Emphasis: (13 semester hours)
- CIS 360: Cyber Security (3)
- CIS 401: Network Systems Administration
  OR
- CIS 402: Linux Networks and Routing (3)
- CIS 461: IT Security Risk Management (3)
- CIS 462: Computer Forensics (3)
- CIS 3/400: Emphasis Area Electives (1)

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