CSCE 205: BUSINESS APPLICATIONS PROGRAMMING

Catalog Description:
205—Business Applications Programming. (3) (Prereq: MGSC 290 or CSCE 101 or above) Introduction to computer applications in business. Programming exercises in COBOL

Prerequisite(s) By Topic:
Introductory programming
Pre-calculus mathematics

Textbook(s) and Other Required Material:

Computing Platform: CMS/MVS

Course Objectives: {Assessment Methods Shown in Braces}
1. Code and compile COBOL programs with no syntax errors {programs, tests, quizzes}
2. Use coding techniques commonly used to solve routine business problems {programs, tests, quizzes, review}
3. Analyze program specifications and design accurate and efficient COBOL programs to meet those specifications {programs}

Topics Covered:
1. COBOL and the program development process (6 hours)
2. Identification, Environment, and Data Divisions (3 hours)
3. Procedure Division (3 hours)
4. Control structures (6 hours)
5. User interfaces (report design) (5 hours)
6. Validation and verification (5 hours)
7. Arrays and tables (3 hours)
8. Master/transaction file processing (6 hours)
9. Program management (1 hour)
10. Reviews and examinations (3 hours)

Syllabus Flexibility: Low. The Undergraduate Committee approves the choice of textbook and syllabus.

Laboratory Projects:
Students complete several (approximately four) individual projects and one group project. Most of the individual projects are cumulative.
**Relationship of Course to Program Outcomes:**
The contribution of each course objective to meeting the program outcomes is indicated with the scale:
3 = major contributor, 2 = moderate contributor, 1 = minor contributor. Blank if not related.

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<td>1. Code and compile COBOL programs with no syntax errors</td>
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**Estimated Computing Category Content (Semester hours):**
Computer Engineering and Computer Science majors do not take this course.

**Estimated Information Systems Category Content (Semester hours):**

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<th>Area</th>
<th>Core</th>
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<td>Hardware and Software</td>
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<td>Networking and Telecommunications</td>
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<td>Modern Programming Language</td>
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<td>Analysis and Design</td>
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<td>Data Management</td>
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<td>Role of IS in an Organization</td>
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<td>Quantitative Analysis</td>
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<td>Information Systems Environment</td>
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**Oral and Written Communication:**
Students complete a reviews and critique of a current article on business applications programming.
Social and Ethical Issues: Data validation

Theoretical Content: None

Analysis and Design:
Design and implementation of business-oriented programs using COBOL

Class/Laboratory Schedule:
Lecture: 3 periods of 50 minutes or 2 periods of 75 minutes per week

Modification and Approval History
Prepared June 2005 by Caroline M. Eastman using course materials from Chris Brown