

## 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:

Tyler Welburn and Wilson Price, *Structured COBOL: Fundamentals and Style*, 4<sup>th</sup> edition, McGraw-Hill College, New York, NY, 1994.

### 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 hours)
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.

Course Objectives	Program Outcomes										
	1. Logic & Math	2. Computing Fundamentals	3. Apply Computing Principles	4. Work on teams	5. Communicate Effectively	6. Liberal arts & Soc. Sciences	7. Basic Science and Lab Procedures	8. Learn New Tools & Processes	9. Employed upon Graduation	10. Application Area	11. Electronics and Digital Sys Design
1. Code and compile COBOL programs with no syntax errors	1	2	2		2			3	2	3	
2. Use coding techniques commonly used to solve routine business problems	1	2	3	2	2			2	2	3	
3. Analyze program specifications and design accurate and efficient COBOL programs to meet those specifications	1	2	3	2	2			2	2	3	

**Estimated Computing Category Content (Semester hours):**

Computer Engineering and Computer Science majors do not take this course.

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

Area	Core	Advanced	Area	Core	Advanced
Hardware and Software			Networking and Telecommunications		
Modern Programming Language	1		Analysis and Design		
Data Management	1		Role of IS in an Organization	1	
Quantitative Analysis			Information Systems Environment		

**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