

**Common Course Outline**  
**CINS 215**  
**Advanced COBOL Programming**  
**3 Semester Hours**

**The Community College of Baltimore County**

**Description**

**Advanced COBOL Programming II**

Enables the student to employ moderately difficult techniques of COBOL while programming actual business applications; discusses file design, table handling, sorting, and indexed file processing as well as other topics. 3 credits: 2 lecture hours, 2 laboratory hours. Prerequisite: CINS 115 or consent of the Program Director or Academic Dean.

**Overall Course Objectives**

Upon completion of this course the student should be able to:

1. Code a moderately complex COBOL program using proper COBOL syntax.
2. Use structured design methods to design a program.
3. Identify and apply the three basic logic structures when coding.
4. Identify and differentiate between sequential, indexed and relative file organizations.
5. Design and code a program using an indexed file and non-sequential (random) processing.
6. Design and code a program using interactive processing.
7. Design and code a program using a table.
8. Design and code a program using the COBOL sort verb.
9. Design and code both a calling program and a called subprogram.

**Major Topics**

1. Debugging Techniques
2. Internal Data Representation
3. Disk Storage Concepts
4. Sequential File Processing
5. Indexed File Processing
6. Relative File Processing
7. Sort Feature
8. Interactive Screen Processing
9. Table Processing
10. Report Writer
11. Copy Statement

**Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member but will include the following:

- At least 4 programs of increasing difficulty
- At least five written tests
- A comprehensive final exam

Writing: The individual faculty member will determine specific writing assignments, but CINS 215 students must be able to document their programs by writing a clearly stated, accurate problem description.

### **Other Course Information**

This course is the second course in a two-course sequence.  
This course is taught in a computerized environment.