CSC 321 - PROGRAMMING METHODS AND FILE STRUCTURES

CREDIT HOURS: 3
PREREQUISITES: CSC 201 or 202; CSC 211
GRADE REMINDER: Must have a grade of C or better in each prerequisite course.

CATALOG DESCRIPTION

Programming efficiency techniques, debugging techniques and file processing for applications in business. Comprehensive programming assignments.

PURPOSE OF COURSE

The purpose of the course is to increase the student's competence using programming methods for business applications and to develop strategies which will enable the student to learn additional features and/or applications.

EDUCATIONAL OBJECTIVES

Upon successful completion of the course, students should be able to:

1. Create well-designed programs.

2. Implement methods of developing software systems.

3. Design and implement solutions to business problems.

4. Demonstrate an understanding of a business applications programming language.

5. Demonstrate basic knowledge of file design.

CONTENT	Hours
Problem Solving and Algorithm Design	5
Data types	3
Program structure	10
Control structures - sequence, iteration, selection	
Control breaks	
Reports	10
Titles, headers and footers	
Detail lines	
Files	14
Merging	
Sorting	
File structures and access methods	
Design, update, and query of files	
Exams (plus final)	3
TOTAL	45

REFERENCES

Stern, Stern, & Ley, <u>COBOL for the 21st Century</u>, Wiley, 11th Ed., 2006.

Popkin, Gary S., <u>Comprehensive Structured COBOL</u>, P.W.S. Publishing, 4th Ed., 1993.

Shelly, Cashman, & Foreman, <u>Structured COBOL Programming</u>, Course Technology, 2nd Ed., 2000.