

CSC 211 - EVENT-DRIVEN PROGRAMMING

CREDIT HOURS: 3
PREREQUISITES: CSC 102
GRADE REMINDER: Must have a grade of C or better in each prerequisite course.

CATALOG DESCRIPTION

Emphasis on problem analysis, solution design, and programming methods. Implementation of commercial applications.

PURPOSE OF COURSE

To acquaint the student with computer problem solving using a visual development environment through the assignment of a variety of problems requiring solution development, program implementation, and documentation.

EDUCATIONAL OBJECTIVES

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

1. Create well-designed programs.
2. Demonstrate familiarity with elementary information systems concepts.
3. Demonstrate familiarity with visual and event-driven programming concepts and techniques.
4. Demonstrate familiarity with the basic concepts of object-oriented programming.
5. Demonstrate familiarity with the tools and techniques for constructing attractive and useful user interfaces.
6. Develop complete programs that solve intermediate problems dealing with various data types, elementary data structures, and objects.

CONTENT

Hours

Integrated Development Environment (IDE)	5
Controls	
Debugging	
Using help	
Data Types and Elementary Data Structures	5
Objects	10
Classes	
Properties	
Methods	
Encapsulation	
Inheritance/reuse	
Polymorphism	
Program Structure	10
Control structures -- sequence, iteration, selection	

Program modularity
Interprogram communication: subprograms, functions, parameters, scope

Files	3
Problem Solving and Algorithm Design	9
Analysis	
Specification	
Design	
Implementation	
Testing	
Maintenance	
Exams (plus final)	3
	TOTAL 45

REFERENCES

Ekedahl & Newman, Programming with Microsoft Visual Basic.Net: An Object-Oriented Approach, Comprehensive Edition, Course Technology, 2003.

Shelly, Cashman, & Quasney, Microsoft Visual Basic.Net - Comprehensive Concepts and Techniques, Course Technology, 2003.

Sprague, Microsoft Visual Basic.Net: Introduction to Programming, 2nd Ed., Course Technology, 2003.

Zak, Programming with Visual Basic.Net, Course Technology, 2003.