Course Prefix and Number:  ITP 112  
Credits:  4

Course Title:  Visual Basic.Net

Course Description
Concentrates instruction in fundamentals of object-oriented programming using Visual Basic.NET and the .NET framework. Emphasizes program construction, algorithm development, coding, debugging, and documentation of graphical user interface applications. Lecture 4 hours per week.

Course Prerequisites/Corequisites
None

Course Objectives
Upon completing the course, the student will be able to:

a. Define the concepts of program development using object-oriented techniques.
b. Use the Visual Basic.NET programming language.
c. Create graphical user interface applications.
d. Apply techniques in algorithm development, coding debugging, and documentation of graphical user interface (GUI) application.

Major Topics to be Included

a. Introduction to Application Development and Programming Fundamentals 
b. Visual Basic.NET controls and form design 
c. Data types 
d. Variables and constants 
e. Validation of user input 
f. Debugging techniques and exception handling 
g. Procedures, functions, and methods 
h. OOP Concepts 
i. GUI design and techniques 
j. ADO and ASP introduction

Effective Date of Course Content Summary:  10/16/2008