COURSE OUTLINE

DIVISION: Information Technology

CURRICULUM: Information Technology Web Development/Programming, Database

COURSE TITLE: Visual Basic: Windows and Web Forms

COURSE NUMBER: ITC 172

CREDITS: 5

TYPE: Workforce Education Preparatory

LENGTH: 11 weeks (55 hours)

PREREQUISITES: ITC 110 or instructor permission

COURSE DESCRIPTION: This course introduces Visual Basic.Net with a focus on using Windows and Web forms. It will also cover object oriented concepts including: inheritance, encapsulation, polymorphism, and layered design (display, domain, data).

COURSE OBJECTIVES & STUDENT OUTCOMES: After completing the course students will be able to

- Create Windows projects
- Add windows Controls
- Set control properties in property windows and in code
- Understand event programming and utilize appropriate events
- Create classes which incorporate appropriate inheritance, polymorphism and other object oriented tools and concepts
- Error trapping and Form Validation
- Create Web form Projects
- Add Asp.Net and html controls
- Set control properties in html(xml), property windows and code
• Understand CSS in relation to web formatting
• Understand and utilize web events and states

REQUIRED TEXT: Variants, assigned by Instructor

OTHER REFERENCES: Materials available on the World Wide Web, handouts, periodicals, library resources.

TOPICAL OUTLINE:
1. Introduction to Visual Basic.Net syntax and control elements
2. Overview of Windows forms
3. Adding controls and setting properties
4. Control and Form events
5. Layered Design--Creating Domain classes
6. Data and file management
7. Web Forms Overview (IIS and server/client concepts)
8. Adding controls
9. Editing control properties in properties window, html, xml, and code behind
10. Postback, Session and Application states
11. Cookies
12. Web Security concepts, issues and strategies

Prepared by Steve Conger Winter 2002
Updated by Steve Conger, August 2005