



Visual Basic.NET Programming Essentials 2

CPT433

Southwestern College Professional Studies

COURSE SYLLABUS

I. Course Catalog Description

Using Microsoft's Visual Basic.NET Integrated Development Environment, students learn advanced concepts on how to work with arrays and collections, structures and files, and XML to build robust business solutions. Advanced skills in object-orientated programming are presented for developing database applications using ADO.NET to produce bound controls and parameterized queries to develop Web forms and services. Prerequisite: CPT 432

II. Required and Supplementary Instructional Materials

Boehm, Anne. (2016). *Murach's Visual Basic 2015*. Fresno, CA: Mike Murach & Associates, Inc.

III. Learning Outcomes

Learning outcomes describe the knowledge, skills, values, and attitudes that learners gain as the result of a particular learning experience. Southwestern College Professional Studies has learning outcomes specific to each course and each [undergraduate](#) and [graduate](#) program of study, as well as [institution-wide outcomes](#) related to the mission and vision of the college. Outcomes can help learners and instructors focus on the big picture of the learning experience and can help inform potential employers about a graduate's knowledge and skills.

Upon successfully completing this course, the learner will be able to:

1. Identify, define, and explain the function of each of the major types and components of databases and database programs.
2. Explain data normalization and the rationale and application of each of its forms.
3. Describe and execute the process, and demonstrate proficiency in creating databases.
4. Identify, define, and explain the attributes and functions of the architecture and components of ADO.NET.
5. Describe and execute the process, and demonstrate proficiency in Visual Basic.NET data selection, querying, insertion, updating, deletion, and other means for interaction and manipulation of data in a database.
6. Explain the roles of critical thinking and ethical reasoning throughout the problem solving and solution development process and assess their application to actual solution development projects in which the learner is engaged.

At the end of the course, learners may vary in their ability to achieve these outcomes. You are more likely to achieve these outcomes only if you attend class and/or online activities as required by the syllabus, complete the requirements for all assignments to the best of your ability, participate actively in class activities and group work as directed, and study diligently for exams.

IV. Course Policies

Students are expected to read and abide by the course policies located in the instructor-specific syllabus in the blackboard course.

V. Course Requirements:

Requirements	Number of Assignments	Points Possible	Percent of Grade
Introduction discussion	1	40	4%
Unit Discussions	6	360	36%
Weekly Programming Projects	6	600	60%
Total Points		1000	100%

VI. Course at a Glance:

Unit	Reading & Preparation Activities	Graded Work Due
1	Chapter1 & Chapter 2	Introductions discussion Unit 1 Discussion Unit 1 Project
2	Chapter 3	Unit 2 Discussion Unit 2 Project
3	Chapter 4	Unit 3 Discussion Unit 3 Project
4	Chapter 5	Unit 4 Discussion Unit 4 Project
5	Chapter 6	Unit 5 Discussion Unit 5 Project
6	Chapter 7	Unit 6 Discussion Unit 6 Project

VII. Other Policies and Requirements

Follow this link to the Southwestern College Professional Studies [Standard Syllabus](#) in Blackboard. You may be required to log in.