



Visual Basic.Net Programming Essentials 1

CPT 432

Southwestern College Professional Studies

COURSE SYLLABUS

I. Course Catalog Description

This course covers the essentials of Visual Basic.Net applications programming within Microsoft's Visual Studio.Net Integrated Development Environment. Students learn how to develop object-oriented programs, test and debug applications, produce active Windows controls, develop multi-form applications, enhance the graphic user interface, and manipulate dates and strings within the .Net platform.

II. Required and Supplementary Instructional Materials

Zak, D. (2014). *Clearly Visual Basic: Programming with Microsoft Visual Basic 2010* (3rd ed.). Boston, MA: Course Technology, Cengage Learning.

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 elements (e.g. objects, classes, variables, functions, and procedures, etc.) of Visual Basic.Net programming.
2. Explain object-oriented programming and its implementation in Visual Basic.Net, and differentiate object-oriented programming from other programming.
3. Describe the problem solving and solution development process from problem definition to implementation and maintenance, and apply it toward the development of Visual Basic.Net solutions for identified problems.
4. Demonstrate proficiency in object-oriented programming, testing and debugging, program documentation, and the use of appropriate Visual Basic.Net features in the development of efficient, effective, quality, and secure solutions for identified problems.
5. 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
Exercises	6	100	10
Projects	6	600	60
Discussions	6	300	30
Total Points		1,000	100

VI. Course at a Glance:

Unit	Reading & Preparation Activities	Graded Work Due
1	<ul style="list-style-type: none"> Read <i>Clearly Visual Basic</i>, chapters 1 - 3 and review the videos and PowerPoint presentations for these chapters 	<ul style="list-style-type: none"> Unit 1 Exercise Unit 1 Project Unit 1 Discussion
2	<ul style="list-style-type: none"> Read <i>Clearly Visual Basic</i>, chapters 4 - 5 and review the videos and PowerPoint presentations for these chapters 	<ul style="list-style-type: none"> Unit 2 Exercise Unit 2 Project Unit 2 Discussion
3	<ul style="list-style-type: none"> Read <i>Clearly Visual Basic</i>, chapters 6 - 7 and review the videos and PowerPoint presentations for these chapters 	<ul style="list-style-type: none"> Unit 3 Exercise Unit 3 Project Unit 3 Discussion
4	<ul style="list-style-type: none"> Read <i>Clearly Visual Basic</i>, chapters 8 - 10 and review the videos and PowerPoint presentations for these chapters 	<ul style="list-style-type: none"> Unit 4 Exercise Unit 4 Project Unit 4 Discussion
5	<ul style="list-style-type: none"> Read <i>Clearly Visual Basic</i>, chapters 12 - 17 and review the videos and PowerPoint presentations for these chapters 	<ul style="list-style-type: none"> Unit 5 Unit 5 Project Unit 5 Discussion
6	<ul style="list-style-type: none"> Read <i>Clearly Visual Basic</i>, chapters 18, 21, and 26, and review the videos and PowerPoint presentations for these chapters 	<ul style="list-style-type: none"> Unit 6 Exercise Unit 6 Project Unit 6 Discussion

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.