

Introduction to Visual Basic

ITP 150x (2 Units)

Objective Expose the functionality of the Visual Basic.NET Programming Environment; provide an overview of programming fundamentals, including variables, controls, data types, selection and repetition structures, menus and database access. Create Windows and Web applications.

Concepts The object-oriented event-driven programming paradigm. Principles of graphical user interface design. The Task-Object-Event chart. Compilation vs. interpretation. Variables. Constants. Data types. Operator precedence. Control structures. Menus. ActiveX controls. Data base applications for Windows as well as for the Web.

Prerequisite none

Lecture 1.5hrs/week

Lab 2.0 hrs/week

Textbook Programming with Microsoft Visual Basic.NET, by Diane Zak, Course Technology, ISBN# 0-619-01662-0.

Download required student files (1662-0d.exe) from the following Web URL: <http://www.course.com/catalog/downloads.cfm?isbn=0-619-01662-0>

Grading The following point-structure will be used in determining the grade for the course. Final grade will be based upon the total points received, the highest total in the class, and the average of the class.

11 Projects	110
Midterm	50
Final Project	50
Total	210

- Policies**
- Make-up policy for exams: In order to make up for a missed exam, the student must provide a satisfactory reason along with proper documentation. Usually make-ups are allowed only under extraordinary circumstances.
 - Projects: It is YOUR responsibility to turn in your lab projects on, or before, the deadlines as set by the instructor. IT IS NOT THE RESPONSIBILITY OF THE LAB TA!
 - Late Projects: Late submission of projects will lead to loss on point, so please turn in your projects on time! No projects will be accepted after 2 weeks beyond the project's original due date.
 - Everything regarding a project should be settled within 2 weeks of the project's due date.
 - Though working together is encouraged, the projects must be your own effort. "Duplicate" projects will all receive zero points and possible referral to the Office for Student Conduct.

- All students should read, understand and abide by the University Student Conduct Code
<http://www.usc.edu/dept/publications/SCAMPUS/governance/gov03.htm>

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Course Outline

Week 1 - Overview of Visual Basic.NET

Reading Assignment: *Overview + Tutorial 1 Lesson A*

Laboratory: Start using Visual Basic.NET Development system; hands-on exercises

Week 2 – An Introduction to Visual Basic.NET

Reading Assignment: *Tutorial 1 Lesson B & C*

Laboratory: Demonstrate Tutorial 1 Lesson A Exercise 3

Week 3 – Designing Applications

Reading Assignment: *Tutorial 2 Lesson A & B*

Laboratory: Demonstrate Tutorial 1 Lesson B Exercise 1

Week 4 – Designing Applications (continued)

Reading Assignment: *Tutorial 2 Lesson C*

Laboratory: Demonstrate Tutorial 2 Lesson C Exercise 3

Week 5 – Using Variables and Constants

Reading Assignment: *Tutorial 3 Lesson A & B*

Laboratory: Demonstrate Tutorial 3 Lesson B Exercise 1

Week 6 – Using Variables and Constants (continued)

Reading Assignment: *Tutorial 3 Lesson C*

Laboratory: Demonstrate Tutorial 3 Lesson C Exercise 1

Week 7– Midterm Examination

Covers material from weeks 1 - 6

Reading Assignment: *Tutorial 4 Lesson A*

Laboratory: Catch up with your demonstrations

Week 8 – The Selection Structure

Reading Assignment: *Tutorial 4 Lesson B & C*

Laboratory: Demonstrate Tutorial 4 Lesson B Exercise 1

Week 9 – More on Selection Structure

Reading Assignment: *Tutorial 5 Lessons A, B & C*

Laboratory: Demonstrate Tutorial 5 Lesson B Exercise 2

Week 10 – The Repetition Structure

Reading Assignment: *Tutorial 6*

Laboratory: Modify the Grading Program of Tutorial 6

Week 11 – Sub and Function Procedures

Reading Assignment: *Tutorial 7*

Laboratory: Demonstrate Tutorial 7 Lesson C Exercise 1

Week 12 – Menus; One-dimensional Arrays

Reading Assignment: *Tutorial 8 Lesson B and Tutorial 11 Lesson A*

Laboratory: Demonstrate Tutorial 8 Lesson B Exercise 2

Week 13 – Database Access using a Windows Form
Reading Assignment: *Appendix B*
Laboratory : Work on Final Project

Week 14 – – Database Access using a Web Form
Reading Assignment: *Appendix C*
Laboratory: Demonstrate the Final Project

Week 15 – Prepare for the Final Examination: Course Review
Reading Assignment: *Review questions from book*
Laboratory: Last day to complete all your demonstrations

Week 16 - Final Examination

