**CS 288.001** **MICROCOMPUTER-BASED PROGRAMMING (VISUAL BASIC)**

### Fall 2011 1:30 pm – 2:45 pm T/Th BE1034

# Instructor: Kenneth Shemroske

# Instructor Information

Office BE2045; Office Phone 228-5072

Email: klshemrosk@usi.edu

Office Hours: T/Th 10:00 am- 11:30 pm, 5:00 pm - 6:00 pm \*\*other times by appointment

# Course Description

This course is an introduction to programming in the microcomputer environment. Online interactive techniques will be emphasized in the solution of common business problems. Visual Basic is the selected language to be used this semester to illustrate structured programming techniques. Lab assignments will be used to master the syntax of the language as well as to develop problem solving skills. Credit hours: 3

# Prerequisites

# CIS 151, CS 111 (or prior programming experience with consent of the Assistant Dean)

# Required Text

*Programming in Visual Basic 2008*, Julia Case Bradley and Anita C. Millspaugh, 2009, McGraw Hill.

**Software**

Microsoft Visual Studio 2008 (Available in the labs or via download with MSDN membership)

**Required Tools**

USB Flash Drive

## Course Objectives

Upon completion of this course, the student should be able to:

* Understand the basic components of the chosen programming language including, but not limited to, sequential, selection, and looping structures; objects, events, properties and methods; and subroutines.
* Plan a logical, programming solution for common business scenarios.
* Design an appropriate graphical user interface (GUI) using the objects and properties of the language.
* Code a solution to common business problems using the constructs of the programming language.

**Blackboard**

I use Blackboard as a classroom management tool; you can access Blackboard through MY USI. I will post announcements, assignments, syllabus, schedules, and other communications on Blackboard; **you are expected to check the site regularly for such communication!** You will also be able to check your grade(s) via Blackboard.

Mail sent to students via Blackboard will automatically go into student mailbox @ mail.usi.edu. If this is not your preferred mailbox or email address you should have your mail.usi.edu mail redirected to your preferred email address. You can make these changes inside MY USI. You should understand that any email sent to you from around the campus will go to your mail.usi.edu address (unless redirected); therefore, **IT IS VERY IMPORTANT** that you understand how to redirect your email to an address that you check regularly. I will be happy to help you with this issue. **Students in my classes are responsible for insuring that email is being delivered to an email location being regularly checked. Failure to check and therefore receive email from me is NOT a valid excuse!**

# Attendance Policy

Attendance is not required but strongly recommended**. !!YOU WILL NOT PASS THIS COURSE!!** without regularly attending class and participating in the classroom work/discussions. Since text material is supplemented by lecture, class attendance is an important part of your overall performance in this course. Many of the elements necessary to understand how to use the software to complete assignments are explained and discussed in class, as are the scenarios for skill-building assignments, due-dates for assignments, exam dates, and other pertinent information.

If you are unable to attend a class, it is **your responsibility** to obtain any missed material, announcements, assignments, etc… from a class mate.

## Homework Assignments

Lab assignments are due by the beginning of class the day they are due. **Labs may be turned in early but not late**. Late lab assignments will **NOT** be accepted. Reading assignments are intended to ensure thorough coverage of the text. However, lab assignments will require knowledge beyond the “current” reading assignment and the student will be expected to use the text, Help, and probably other reference sources to solve the lab problems.

**!!** You will use Blackboard to turn in your assignments:

* Please zip your project directory structure into a single file titled with your last name and some designation for the assignment (e.g. “ShemroskeHw1.zip”).
* When complete, view the assignment in BB and use the “attach file” portion of the assignment to browse your computer for the zip file you wish to attach.

# Disability Support

Students with disabilities can receive assistance through the University Counseling Center. More information is available from the Counseling Center in OC 1022, 812-464-1867 or TDD 812-465-7072. Students are encourage to discuss any special needs with the instructor at the beginning of the term.

# Academic Dishonesty

Academic dishonesty such as plagiarism, cheating, etc. WILL NOT be tolerated. Any student found violating this rule of honesty risks a grade of “0” for the assignment/test (at the very least) and possible expulsion from the class. Please consult the student handbook for specifics in this area.

# Make-up Exam Policy

Make-up exams will be given to students receiving PRIOR permission to be absent during the regular exam period. Such permission will be granted only if student demonstrates a strong need. Make-up exams will likely be different in both form and content from the regular exam. Make-up exams are strongly discouraged as it is often difficult to find a make-up time given the schedules of the instructor and the student—class time will not be used for make-up exams.

# Incomplete Grades

Students will be given a grade of “I” (incomplete) at the end of the semester only in the event of extreme hardship for circumstances that arise near the end of the term. A grade of “I” is not to be used to offset poor time management skills that result in unfinished/unacceptable work.

## Performance Evaluation

Performance in the class will be evaluated on the following basis:

Examinations (3) 50%

Homework assignments 45%

Class Participation/Quizzes/special projects 5%

**Grading Scale:**

A >= 90 C >= 70

B+ >= 87 D+ >= 67

B >= 80 D >= 60

C+ >= 77 F Below 60

**Tentative Course Schedule**

**CIS288, Introduction to OOP using VB**

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| --- | --- | --- |
|  | **CIS288** | **due dates** |
| 23-Aug | class intro; syllabus |  |
| 25-Aug | chapter 1 - Introduction to VB |  |
| 30-Aug | chapter 2 - User Interface Design | HW 1 due |
| 1-Sep | chapter 2 cont'd |  |
| 6-Sep | chapter 3 - Variables, Constants, Calculations | HW 2 due |
| 8-Sep | chapter 3 cont'd |  |
| 13-Sep | Assessment Day - no classes |  |
| 15-Sep | chapter 4 - Decisions and Conditions | HW 3 due |
| 20-Sep | chapter 4 cont'd |  |
| 22-Sep | **Exam 1** |  |
| 27-Sep | chapter 5 - Menus, Common Dialogs, Sub Procedures, Function Procedures | Hw 4 due |
| 29-Sep | chapter 5 cont'd |  |
| 4-Oct | chapter 6 - Multiform Projects | Hw 5 due |
| 6-Oct | chapter 6 cont'd |  |
| 11-Oct | Fall Break |  |
| 13-Oct | chapter 7 - Lists, Loops, and Printing | Hw 6 due |
| 18-Oct | chapter 7 cont'd |  |
| 20-Oct | chapter 8 - Arrays | Hw 7 due |
| 25-Oct | chapter 8 cont'd |  |
| 27-Oct | **Exam 2** |  |
| 1-Nov | chapter 9 - Web Applications | Hw 8 due |
| 3-Nov | chapter 9 cont'd |  |
| 8-Nov | chapter 10 - Database Applications | Hw 9 due |
| 10-Nov | chapter 10 cont'd |  |
| 15-Nov | chapter 11 - Data Files | Hw 10 due |
| 17-Nov | chapter 11 cont'd |  |
| 22-Nov | chapter 12 - Creating OO Programs | Hw 11 due |
| 24-Nov | Thanksgiving - no classes |  |
| 29-Nov | chapter 12 cont'd |  |
| 1-Dec | Advanced topics | Hw 12 due |
| 6-Dec | review |  |
| 12/8-12/14 | Final Exam - Tues, Dec. 13 |  |

*\*This is a tentative schedule; subject to change*