CS 230
VISUAL BASIC PROGRAMMING
Introduction to programming in Microsoft Visual Basic

Instructor Information:
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Office location: 1120 C  Office Hours: 7:30 – 8:20 a.m. Daily

Course Description:
This is Visual Basic programming. The student learns algorithm, module and structure
development methodologies, along with programming techniques and syntax. The
students will program in a visual programming environment. (Visual Studio 2008)

TEXT AND MATERIALS:
Before starting the course, you will need the following:
- Murach’s Visual Basic 2008 (2008 edition) by Anne Boehm
  25 chapters, 820 pages, 351 illustrations
- Text site:  http://www.murach.com/books/vb08/index.htm
- Storage Device

LAB AND GENERAL RULES OF CONDUCT:
- Be respectful of your fellow students at all times.
- No food or drink is allowed in the labs.
- You must complete your own work.

COURSE POLICIES:
- Disability Accommodations - Students with a learning disability need to discuss
  their situation with the Disability Support Services Department. Students need
  to request an accommodation notification for the instructor. To request
  accommodations related to a disability, contact Claudia Angus, Ph.D.,
  Coordinator of Disability Support Services, at 527-4262 or email
  claudia.angus@wwcc.edu
- Cheating - It is expected that students will conduct themselves with integrity. If
  you cheat or assist others in cheating, you violate a trust. Cheating includes but is not limited to the following:
  - copy files or lend your storage device to another student
  - copy answers on exams
  - complete work for someone else
  - turn in assignments that have been used in other classes
  - purchase or sell assignments or exam materials
If you cheat, some or all of the following actions will be taken:
You will receive a lower point score possibly a zero for that particular assignment or
exam. A report of the incident may be forwarded to the Dean of Student Services.
The Dean may file the report in your permanent record and/or take further disciplinary action.

**EVALUATION AND GRADING:**
You will be evaluated based on your combined performance on homework assignments and exams. **NO late work will be accepted.**
The Assignment Sheet will enable easy tracking of progress and grades. You will be using the [http://www.murach.com/books/vb08/index.htm](http://www.murach.com/books/vb08/index.htm) site to download files. Be sure to give yourself time to do your work.
Your ability to understand and follow the directions in the text thoroughly will be an essential component for successful completion of the projects/homework.
Tests will be given at the middle and end of the quarter. **Unless prior arrangements are made, no makeup tests will be given.**

The following grading scale will be used:

<table>
<thead>
<tr>
<th>Percentage of Possible Points</th>
<th>Grade</th>
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<tbody>
<tr>
<td>93-100%</td>
<td>A</td>
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<tr>
<td>90-92%</td>
<td>A-</td>
</tr>
<tr>
<td>86-89%</td>
<td>B+</td>
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<tr>
<td>82-85%</td>
<td>B</td>
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<tr>
<td>80-81%</td>
<td>B-</td>
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<tr>
<td>76-79%</td>
<td>C+</td>
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<tr>
<td>72-75%</td>
<td>C</td>
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<tr>
<td>68-71%</td>
<td>C-</td>
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<tr>
<td>64-67%</td>
<td>D+</td>
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<tr>
<td>61-63%</td>
<td>D</td>
</tr>
<tr>
<td>Below 60%</td>
<td>F</td>
</tr>
</tbody>
</table>

**All** assignments are required to have your NAME, Class, DATE, and Assignment (with explanation) at the top of each program or in the header of a Word document or at the top of your programming code. Assignment includes the Chapter, Project/Program, and Page.

All Work and Tests must be received on or prior to the due dates assigned. Early submission is good, late will not be accepted.

Assignments and times may change during the quarter – see instructor for confirmation. Topics included in this course are:

See the next page
# Table of Contents

## Section 1  Introduction to VB programming
- Chapter 1  *An introduction to Visual Studio*  
- Chapter 2  *How to design a Windows Forms application*  
- Chapter 3  *How to code and test a Windows Forms application*

## Section 2  The Visual Basic language essentials
- Chapter 4  *How to work with numeric and string data*  
- Chapter 5  *How to code control structures*  
- Chapter 6  *How to code procedures and event handlers*  
- Chapter 7  *How to handle exceptions and validate data*  
- Chapter 8  *How to work with arrays and collections*  
- Chapter 9  *How to work with dates and strings*  
- Chapter 10  *More skills for working with Windows forms and controls*
- Chapter 11  *How to create and use classes*  
- Chapter 12  *How to debug an application*

## Section 3  Database programming
- Chapter 13  *An introduction to database programming*  
- Chapter 14  *How to work with data sources and datasets*  
- Chapter 15  *How to work with bound controls and parameterized queries*  
- Chapter 16  *How to use ADO.NET to write your own data access code*

## Section 4  Object-oriented programming
- Chapter 17  *How to work with default properties, events, and operators*  
- Chapter 18  *How to work with inheritance*  
- Chapter 19  *How to work with interfaces and generics*  
- Chapter 20  *How to organize and document your classes*

## Section 5  Other programming skills
- Chapter 21  *How to work with files and data streams*  
- Chapter 22  *How to work with XML files*  
- Chapter 23  *How to use LINQ*  
- Chapter 24  *How to enhance the user interface*  
- Chapter 25  *How to deploy an application*

## Resources
- Appendix A  *How to install and use the software and files for this book*  
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Inclass work

- Load VS or VB 2008 on your computer
- Class Calculator Program
- Class Convert Program

Both 4.1 and 4.2 as one page 139-40
Both 5.1 and 5.2 as one page 164-6
Both 6.1 and 6.2 as one page 187-8
Both 7.1 and 7.2 as one page 221-2
Both 8.1 and 8.2 as one page 260-2
Both 9.1 and 9.2 as one page 290-2
Both 10.1 and 10.2 as one page 329-30
Both 11.1 and 11.2 as one page 367-7
Both 12.1 and 12.2 as one page 390-2

Create an ADO Object

- Both 14.1 and 14.2 as one page 466-8
- Both 15.1 and 15.2 as one page 500-3
- 16.1 page 540-2

Individual Project

- Team Project
- Final Project