

CIS-130-70 Visual Basic Programming
Tuesday / Thursday, 9:08AM-11:00AM
Fall 2010 Syllabus

Instructor: Brian N. Stewart
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Campus Hours posted in T-194 Open Lab
Office Hours: by appointment

Texts: Programming with Microsoft Visual Basic 2008, Diane Zak

Course / Catalog Description:

An intermediate programming course using Visual Basic for Windows. The structure and syntax of Visual Basic is covered, including the integrated design environment to create forms for project solutions. Disk file management and database access is also covered. The latest version of Visual Basic is used.

Prerequisite: CIS-125, Principles of Programming Logic, related work experience, or instructor permission.

Upon successful completion of CIS-130, the student should be able to:

- Set the properties of an object
- Create an application that will utilize the following controls: label, text box, command button, list box, check box, radio button, image control, timer control, groupbox control.
- Create variables with the correct data type and variable scope.
- Create an application that will make use of the following Visual Basic statements: Assignment(=), Select Case, IF/Then, Do While and Do Until, For/Next, For/Each
- Demonstrate proficient use of the Visual Basic Integrated Design Environment to create an application.
- Debug Visual Basic applications that contain run-time errors utilizing the debug tools.
- Create an application that will involve database access

Attendance:

Attendance must be taken according to Federal Requirements. A sign-in sheet will be provided for attendance and must be signed if you attend class; it is your responsibility to ensure you've signed the sheet.

Regular class attendance is necessary to do well in the class. You are responsible for all lecture material, whether you are in class or not. Make-ups are not given on quizzes and tests. If you know you will be absent from a particular session, please notify the instructor via e-mail.

Grade Breakdown: Total Pts – 1,009	
Group Project	20%
Midterm & Final	20%
Assignments in Visual Basic	20%
Debugging Programs	25%
Attendance & Participation	15%

Grading Scale:	
92% - 100%	A
84% - 91%	B
76% - 83%	C
68% - 75%	D
Below 68%	E

925-1000pts
845-924pts
765-844pts
685-764pts
0-684pts

Recommended Supplies: USB Flash Drive with 1.0GB or greater capacity, computer capable of accessing various websites and installing software

Assignments and Homework:

All assignments and homework are due at the beginning of class on the date listed on the syllabus. For each session the assignment is late, you will lose a full letter grade on the assignment. Generally, there will be 4 debugging assignments each week (due the beginning of the next week) along with White-Board work (1 question per student, per session). There will also be assignments given that reinforce the material (handouts and programs). *For ALL code assignments, a hand-drawn flowchart and printer spacing chart, and TOE Chart will be required.* Assignments will be available at K:\bnstewart\CIS130\Week#, where # is the week we're working on. They will be available 1 week in advance and it is the responsibility of the student to retrieve all files.

Quizzes:

A total of three required quizzes on text materials will be covered according to the tentative schedule. *Make-up quizzes are not given.* The quizzes will require paper and a pencil – nothing more. Reviews for ALL examinations will be in MP3 “podcast” format. Extra Credit quizzes (5 pts per chapter, up to 60 pts) are available on UCompass and can be reset up to three (3) times.

Midterm and Final:

The Midterm Examination will cover Chapters 1->6 and will consist of a series of take-home debug assignments. The Final Examination is a cumulative written examination with both project and debug work that will cover all materials discussed during the progression of the course.

Dropping the Class:

To receive a drop (DR) for the class, the student must officially drop the class. A grade for the class will be given according to the grading scale above if the course is not officially dropped.

College Policies:

Copying of homework and/or quizzes and exams is CHEATING. If a student is found to have

cheated, they will receive a failing grade for the entire course. Please see the Policy on Academic Dishonesty in the College Catalog. See Catalog, Schedule & Student Handbook regarding Cheating Dropping, Incompletes.

HFCC Computer Literacy:

Effective September, 2000, Henry Ford Community College will require that all newly admitted students demonstrate basic computer literacy skills before graduation. Students will be tested when admitted to the college. If students are required to complete course work in basic computer concepts, credit in CIS 100 will be accepted as proof of computer literacy. The

After the successful completion of CIS-100, the student should be able to:

- Log into and out of a computer network.
- Setup, send and open e-mail, including attachments.
- Operate basic PC hardware, including common input, output, and storage devices.
- Perform file management tasks, including finding, organizing, saving, copying, and printing files.*
- Use basic word processing functions to prepare a document that incorporates a variety of formatting options.
- Locate information on the Internet, identify appropriate search terms, download files, and use a search engine effectively. *
- Prepare a spreadsheet that incorporates basic formulas and a variety of formatting options.
- Create and view a slideshow using basic presentation software functions.
- Identify issues and recommendations related to computer ethics and netiquette.*
- Recognize common threats to computer security and privacy, such as viruses, phishing, and identity theft; and identify methods of prevention.
- Describe job types in the Information Technology field.
- Explain how electronic commerce operates.
- Develop an appreciation for how technology can help in educational and vocational endeavors.

Extra Credit

Opportunities for extra credit involve completing extra projects in Visual Basic. Three opportunities will be discussed during the class.

Grades

Grades will be posted to UCompass by Sunday each week. Final grades will be reported to HFCC Sunday, December 19. Please contact the instructor at any time should you have any questions on a particular score.

Class Policies

Cellular telephones are to be turned on silent or vibrate. If you have an emergency, quietly step

outside and take the call. Text messaging during class is unacceptable. Likewise, appropriate dress regulations are to be followed. Please remove hats, sunglasses, headphones, and all other non-business apparel prior to the beginning of class. Should you happen to be late, please take a seat and see me at the end of class to obtain the handouts for the day. Failure to follow the course policies will result in a lower grade. If you have any medical issues which may occur during class time, please inform the instructor in private so that we can make accommodations (seizures, diabetic, etc.).

Tutoring / Instructor Availability

Tutoring will be made available to the class should the need arise. Please send the instructor an e-mail so that arrangements can be made. Extra materials and assignments (of no point value) can be distributed to aid in comprehension of the material.

Please contact me at any time via e-mail with any questions or concerns. I will respond within 24 hours. I am available to talk in person during the hours above. To make an appointment, please send an e-mail to bnstewart@hfcc.edu. Every effort will be made to ensure you succeed in this course.

Miscellaneous Information

You will be required to utilize UCompass (<http://henryford.ucompass.com>) and PodBean (<http://nhlr2000.podbean.com>). Ensure that you check these websites regularly. You will also be required to verify the ability to access your folder within my drive: K:\bnstewart\CIS130-xx\YourLogonID as several exercises will be turned in to that location.

Students are expected to review the PowerPoint presentation PRIOR to the session we will be discussing that particular chapter. Pop-Quizzes of 10pt value may be assigned to ensure material was reviewed prior to each session.

Please remember that your lab fees as a student taking a CIS class allow free access to the T-194 Lab; provided that you adhere to the AUP and other rules of the lab. Bring a copy of your schedule at ALL times. Due to the nature of this course, you should expect to spend 2-3 hours after each class session in the lab if you do not have access to a computer outside of the home.

Tentative Schedule - Revised 08/23/2010

Week		Topics of Discussion	Assignments Due / Tasks
One	8/26/2010	Introduction to the Course, Review Syllabus, Policies, Lab Orientation Introduction to the Visual Basic IDE Environment / VB Express Discussion	Complete Online Tasks & Cheating Examination
Two	8/31/2010 9/2/2010	Chapter 1 – Lessons A&B Chapter 1 – Lesson C & Miscellaneous topics (Printer Spacing Charts, Flowcharts, TOE Charts)	
Three	9/7/2010 9/9/2010	Chapter 2 – Lessons A&B Chapter 2 – Lesson C & Appendix A (GUI Design Guidelines)	
Four	9/14/2010 9/16/2010	Chapter 3 – Lessons A, B, & Creating Proper Variable Names Chapter 3 – Lesson C & Work on Project 1	
Five	9/21/2010 9/23/2010	Chapter 4 – Lessons A, B & C Chapter 5 – Lessons A & B, Project 2 Assigned	• Project 1 DUE
Six	9/28/2010 9/30/2010	Chapter 5 – Lesson C & Group Projects Assigned, Review for Exam 1, Flowcharting / Psuedocoding Loops / Integration with Selection Statements & Debugs Exam 1 – Chapters 1, 2, 3, 4. Work on Project 2	
Seven	10/5/2010 10/7/2010	Chapter 6 – Lessons A&B, Review Exam 1 Chapter 6 – Lesson C & Project 3	

		Assigned	
Eight	10/12/2010	Chapter 7 – Lessons A&B, Advanced Debugs	• Project 2 DUE
	10/14/2010	Chapter 7 – Lesson C & Introduction to Databases (SQL, Access, Oracle, mySQL), ODBC	
Nine	10/19/2010	Chapter 8 – Lessons A&B, Continuation of Databases & ODBC	
	10/21/2010	Chapter 8 – Lesson C & VB use on WWW, Other VB.NET Environments (Console, etc – Using VB in other Languages)	
Ten	10/26/2010	Chapter 9 – Lessons A&B, Randomizing Values in Arrays (Deal or No Deal)	
	10/28/2010	Chapter 9 – Lesson C (Two- Dimensional Arrays) & Advanced Array Structures (Data Structures)	
Eleven	11/2/2010	Chapter 10 – Lessons A & B, Review For Exam 2	• Project 3 DUE
	11/4/2010	Exam 2 – Chapters 5, 6, 7, 8 & Miscellaneous Topics)	
Twelve	11/9/2010	Chapter 10 – Lesson C & Advanced File Handling / Encrypting the File	
	11/11/2010	Chapter 10 – Finish File Handling, Project 4 Assigned	
Thirteen	11/16/2010	Chapter 11 – Lessons A & B	
	11/18/2010	Chapter 11 – Continuation of Lessons A & B	
Fourteen	11/23/2010	Chapter 11 – Lesson C, Work on Group Projects & Additional Debugging – Initial Code Review by instructor	• Project 4 DUE

	11/25/2010	NO CLASS – College Closed	
Fifteen	11/30/2010	Deploying a Visual Basic IDE Solution in a Local and Network Environment (Package Dev) / Configuration for *nix and Windows systems	
	12/2/2010	Chapter 12 – Lesson A, Work on Group Projects	
Sixteen	12/7/2010	Complete Chapter 12, Finish work on Group Projects, Prep for Final Examination, Conversion from Languages to<->From VB.NET	<ul style="list-style-type: none"> • Group Project DUE
	12/9/2010	Exam 3 – Chapters 9, 10, 11, 12, Extra Credit Project on Advanced Visual Basic Techniques – Inheritance and Polymorphism	
Finals	12/14/2010	Group Project Presentations	
	12/16/2010	<u>Final Examination</u>	