

<u>Jordan University of Science & Technology</u>	
<u>Faculty of Computer & Information Technology</u>	
<u>Department of Computer Science</u>	
Year: 2007-2008	Semester: Fall 2007

Course Information	
Course Title	Selected Programming Languages
Course Number	CS 116
Prerequisites	CIS 100
Instructor web slide	<u>http://www.shadi-ayoub.com</u>
Instructor	Eng. Shadi Ayoub
Office Location	E3L1
Office Phone	22600
Office Hours	Mon and Wed from 9:45 AM to 11:15 AM and 2:15 to 3:15 or by appointment
E-mail	sosa@just.edu.jo
Teaching Assistant	

Text Book	
Title	An Introduction to programming using Visual Basic 6
Author(s)	David I. Schneider
Publisher	Prentice Hall Inc
Year	2004
Edition	4 th Update Edition
Book Website	<u>http://cwx.prenhall.com/bookbind/pubbooks/schneider/</u>
References	VB6 How to Program, Deitel & Deitel, Prentice Hall Inc

Assessment Policy		
Assessment Type	Expected Due Date	Weight
First Exam	TBD	25%
Second Exam	TBD	25%
Final Exam	TBD	40%
lab	Lab supervisor	10%

Course Objectives

Upon successful completion of this course , students will be able to :

- Understand fundamental computer concepts.
- Identify and describe the purpose of various components of the VB integrated development environment (IDE).
- Build and run small application using Visual Basic.
- Understand the basic problem-solving techniques.
- Write conditional and repetition statements and other control structures.
- Declare variables and constants using the data types available in VB.
- Examine and discuss Sub and Function procedures.
- Understand the array structure and its usage.
- Use strings in addition to their built-in functions.
- Create GUI applications using standard controls.
- Understand and create multiple document interface (MDI) applications.
- Develop a single document interface (SDI) application.
- Understand the use of sequential and random-access files.

Teaching & Learning Methods

- Class lectures, and lecture notes, are designed to achieve the course objectives.
- You should read the assigned chapters before class, complete assignments on time, participate in class or the lab and do whatever it takes for you to grasp this material. Ask questions. Ask lots of questions.
- You are responsible for all material covered in the class.
- Please communicate any concerns or issues as soon as practical either in class, by phone or by Email.
- The web page is a primary communication vehicle. Lecture notes will be available before each class. It will contain homework assignments, study guides, and important instructions.

Course Content

Week	Topics	Chapter in Text
1	An Introduction to Computers and Visual Basic 1.1 Introduction to Computers 1.2 Using Windows 1.3 Disk and Folders 1.4 An Introduction to Visual Basic	Ch1
2	Problem Solving 2.1 Program Development Cycle 2.2 Programming Tools	Ch2

	<p>Fundamentals of Programming in Visual Basic</p> <p>3.1 Visual Basic Objects</p> <p>3.2 Visual Basic Events</p>	Ch3
3	<p>3.3 Numbers</p> <p>3.4 Strings</p> <p>3.5 Input/Output</p> <p>3.6 Built-In Functions</p>	Ch3
4	<p>Decisions</p> <p>5.1 Relational and Logical Operators</p> <p>5.2 If Blocks</p> <p>5.3 Select Case Blocks</p>	Ch5
5	<p>Repetition</p> <p>6.1 Loop Structure</p> <p>6.2 Elements of a Loop Structure</p> <p>6.3 Types of LOOP Structures</p> <p>6.3.1 Do While Loop</p>	Ch6
6	<p>6.3.2 Until Loop</p> <p>6.3.3 For Next loop</p> <p>6.4 Processing Lists of Data with Do Loops</p> <p>General Procedures</p> <p>4.1 Creating Visual Basic Sub Procedures</p>	Ch6
7	<p>4.2 Creating User-defined Function Procedures</p> <p>4.3 Parameter Passing Mechanism</p> <p>4.4 Modularizing in Programming Languages</p>	Ch4
8	<p>Arrays</p> <p>7.1 Arrays in Visual Basic</p> <p>7.1.1 One- dimensional arrays</p> <p>7.1.2 Control arrays</p> <p>7.1.3 Two-dimensional arrays</p> <p>7.2 Control Array</p> <p>7.2.1 Creating Control Array during Form Design</p> <p>7.2.2 Control Array Event Procedures:</p> <p>7.2.3 Creating Control Array at Run Time:</p> <p>7.3 Searching</p>	Ch7
9	<p>7.4 Sorting</p>	Ch8

	Sequential Files 8.1 Creating Sequential Files 8.2 Adding items to Sequential Files 8.3 Using Sequential Files	
10	9. Random Access Files 9.1 Fixed-Length Strings 9.2 Records	Ch9

Additional Notes	
Exams	<ul style="list-style-type: none"> · The format for the exams is generally (but NOT always) as follows: MCQs, True/False , write VB statements, and short programs questions.
Makeup Exams	<ul style="list-style-type: none"> · Makeup exam should not be given unless there is a valid excuse. · Arrangements to take an exam at a time different than the one scheduled MUST be made prior to the scheduled exam time.
Drop Date	<ul style="list-style-type: none"> · It is your responsibility to find out.
Cheating	<ul style="list-style-type: none"> · Cheating or copying from neighbor on exam, quiz, or homework is an illegal and unethical activity. · Standard JUST policy will be applied. · All graded assignments must be your own work (your own words). · Some of the assignments (programming or homework) may be graded orally.
Attendance	<ul style="list-style-type: none"> · Excellent attendance is expected. · JUST policy requires the faculty member to assign ZERO grade (35%) if a student misses 10% of the classes that are not excused. · Sign-in sheets will be circulated. · If you miss class, it is your responsibility to find out about any announcements or assignments you may have missed.
Participation	<ul style="list-style-type: none"> · Participation in, and contribution to class discussions will affect your final grade positively. Raise your hand if you have any question. · Making any kind of disruption and (side talks) in the class will affect you negatively.
Finally	<ul style="list-style-type: none"> · Make backups of all of your work. · This includes any assignment and project materials you and your group produce. · Copy files onto 2 or 3 floppy disks and photocopy diagrams and other materials to share with your group