

## CS 111, Programming Foundations, 3 credits, Spring 2016

CRN: 15421

Meets: TR 8:30-9:45, Dana 318

Instructor: Carolyn Pe Rosiene

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Work Phone 860.768.4699

Office Location Dana Hall 335 and Skype

Office Hours TR 9:50am-10:40am; 12:30pm-1:45pm except 1/21, 2/4, 2/9, 2/18, 3/3, 3/8, 3/24, 4/7, 4/12, 4/21, 4/26

Coach: Andrew Berger

Email [aberger@hartford.edu](mailto:aberger@hartford.edu)

Office Location Dana Hall 230

Office Hours MW 11:00am-12:00pm; TR 4:00pm-5:00pm

### Course Description

An introductory computer programming course designed for students with no prior programming background. Emphasis will be placed on problem solving and the translation of solutions into a programming language. Topics covered will include data types, input/output, control structures, loop structures, and program modularity. This course can be used to prepare the student for CS 114 or as a one-semester exposure to programming.

### Course Objectives

At the end of the semester, students will learn about:

- Working with Graphical User Interface elements
- Making decisions in a program
- Designing loops and repeating program instructions
- Creating Sub and Function procedures
- Using built-in methods
- Using arrays

### Course Pre-requisites

Two years of high school algebra and familiarity with quantitative reasoning. This course assumes that you have a working knowledge of an operating system. You do not need prior programming experience. However, an aptitude for problem solving, analytical reasoning, and quantitative reasoning is essential for succeeding in this course.

### Expectations

Each student is expected to attend classes and take notes. Read the textbook(s) before attending class. Turn in homework, and other assignments on time. Take quizzes and exams as scheduled.

The instructor is available for help during scheduled office hours (check "Instructor Information") and also by appointment. Please do not wait until a test to get help. Seek help as soon as possible.

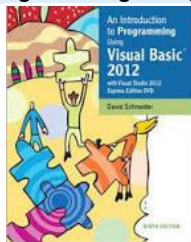
You will need to allocate about **12 hours of your week** towards this course. This time will be used for the following:

- reading the chapters in the text book assigned
- completing activities assigned
- completing homework assignments
- studying for your tests and exams

### Textbook

- Paperback or E-Text:

**An Introduction to Programming Using Visual Basic® 2012, Ninth Edition**



Author: Schneider

Copyright Year: 2014

Publisher: PEARSON EDUCATION

Paperback ISBN: 9780133378504

### Software

1. If you have a Windows PC: Visual Studio 2012 Express (<https://www.microsoft.com/en-us/download/details.aspx?id=34673>). If your book came with a CD, this software should be in the accompanying CD. If not, this is a free download from the

website. Read each pop-up carefully before clicking. Be sure to register your product to ensure uninterrupted use. To do this after installation, run VB Express. Go to Help / Register Product.

2. If you have a Mac, download CoRD (<http://cord.sourceforge.net/>) which is a Mac OS X remote desktop client for logging into a Windows machine - **ts.cs.hartford.edu**. Once connected, you will have access to all the software on the terminal server including Visual Basic. You will need a CS lab account (contact instructor ASAP if you don't have one). Read attached document for more information.
3. Media player: Any software that plays .mp4 and .wmv video files such as [Windows Media Player](#)
4. E-office hours and screen sharing: [Skype](#)

### Hardware Notes

Data is erased from lab computers in D318 and D230 every time you log out. You must remember to manage the various files you use/create accordingly.

Students may choose to use a USB flash drive (jump drive) to store their work. If so, you will need a 1GB or larger drive and you should bring it to every class. Alternatively, you may store your data on the CS department file server (accessible as the G: drive) or you may upload your files to the cloud.

Remember that computer storage devices do fail. You are advised to make regular backups of your work using multiple devices. Loss of data due to disk failure is not an acceptable excuse for missing a homework deadline.

### CS Account

All CS students have been given a "CS Account". This computer account works in Dana 230 (CS lab) and Dana 318 (CS classroom). The software required for this course are available in these rooms.

- Account credentials:
  - Usernames = First name initial + first 8 characters of last name (ex. John Doe is "jdoe")
  - Passwords = 123456
- If you cannot login, contact the CS system administrators (admins@cs.hartford.edu) with your:
  - First name, Last name, your CS instructor name, and CS course
- There is also a temporary account which is only functional for a couple of weeks into the semester. Please do not store any files in this account and should not be used past the first week of school.
  - Username = 318guest
  - Password = 318guest

The Department Computer Science, as custodian of all information stored on the network, may inspect and/or close an account without prior notice upon any indication of abuse. Account owners must adhere to the computer use policies established by the University of Hartford. These policies can be found in the conduct section of The Source student handbook. Each account owner is responsible for his or her own account. If any abuse originates from your account you will be held liable.

### Reading Assignment Schedule

*Subject to Change*

Wk #	Date	Reading Assignment	Quiz - due 30 min before class	Class Activity
1	19-Jan			Syllabus
	21-Jan	Chapter 1 An Introduction to Computers and Problem Solving 1.1 An Introduction to Computing and Visual Basic 1.2 Program Development Cycle 1.3 Programming Tools	1	Workshop 1
2	26-Jan	Chapter 2 Visual Basic Controls and Events 2.1 An Introduction to Visual Basic 2012 2.2 Visual Basic Controls	2	Workshop 2
	28-Jan	2.3 Visual Basic Events	3	Lab 1
3	2-Feb			<b>Test 1</b>
	4-Feb	Chapter 3 Variables, Input, and Output 3.1 Numbers 3.2 Strings	4	TBD
4	9-Feb	3.3 Input and Output	5	TBD
	11-Feb	Review Chapter 3	6	TBD
5	16-Feb			<b>Test 2</b>
	18-Feb	Chapter 4 Decisions 4.1 Relational and Logical Operators	7	TBD
6	23-Feb	4.2 If Blocks	8	TBD
	25-Feb	4.3 Select Case Blocks 4.4 Input via User Selection	9	TBD
7	1-Mar	Review Chapter 4	10	TBD

	3-Mar			<b>Test 3</b>
8	8-Mar	Chapter 5 General Procedures 5.1 Function Procedures	11	TBD
	10-Mar	5.2 Sub Procedures, Part I 5.3 Sub Procedures, Part II	12	TBD
9	15-Mar	<b>Spring Break</b>		
	17-Mar			
10	22-Mar	5.4 Modular Design	13	TBD
	24-Mar	Review Chapter 5	14	TBD
11	29-Mar			<b>Test 4</b>
	31-Mar	Chapter 6 Repetition 6.1 Do Loops	15	TBD
12	5-Apr	6.2 For...Next Loops	16	TBD
	7-Apr	6.3 List Boxes and Loops	17	TBD
13	12-Apr	Review Chapter 6	18	TBD
	14-Apr			<b>Test 5</b>
14	19-Apr	Chapter 7 Arrays 7.1 Creating and Accessing Arrays	19	TBD
	21-Apr	7.4 Two-Dimensional Arrays	20	TBD
15	26-Apr	Review of Chapter 7	21	TBD
	28-Apr			Review for Finals
<b>FINAL EXAM - THURSDAY, MAY 5, 11am-1pm</b>				

### Grading Policies

**Quality Work:** All oral and written work submitted must be of the highest quality. You will be graded on your performance and quality of the work required and not on the amount of time spent nor amount of effort. Any piece of work turned in for a grade is subject to an oral examination and the grade for the work hinges on the result of the student's knowledge, not what is submitted.

Expect one quiz before each class, a lab at least once a week, and a test after a couple of chapters.

#### Final Grade:

Expect one homework assignment for each chapter covered. With the exception of Chapter 1, expect a test after each chapter. A project will be assigned at the end of the semester to allow students to research and present a topic relating to computer architecture. Final letter grades are assigned as follows:

#### Final Grade:

Quizzes	15%
Labs	35%
Tests	35%
Final Exam	15%

100 to 94 = A	87 to 89.99 = B+	77 to 79.99 = C+	67 to 69.99 = D+	0 to 59.99 = F
	84 to 86.99 = B	74 to 76.99 = C	64 to 66.99 = D	
90 to 93.99 = A-	80 to 83.99 = B-	70 to 73.99 = C-	60 to 63.99 = D-	

**Pass/No Pass Option Students:** Students who are registered with a PASS/NO PASS option must receive a final grade of **65** or better to receive a P.

### "My Grades"

Up-to-date grade information is available 24/7 under "My Grades". It also shows your "Weighted Total". This is your up-to-date, cumulative, weighted grade.

### Class Participation

Level of participation	Rubric
A	<ul style="list-style-type: none"> <li>Actively supports, engages and listens to peers (ongoing)</li> <li>Arrives fully prepared at every class</li> <li>Plays an active role in discussions (ongoing)</li> </ul>

	<ul style="list-style-type: none"> <li>• Comments advance the level and depth of the dialogue (consistently)</li> <li>• Group dynamic and level of discussion are consistently better because of student's presence</li> </ul>
B	<ul style="list-style-type: none"> <li>• Makes a sincere effort to interact with peers (ongoing)</li> <li>• Arrives mostly, if not fully, prepared (ongoing)</li> <li>• Participates constructively in discussions</li> <li>• Makes relevant comments based on the assigned reading material (ongoing)</li> <li>• Group dynamic and level of discussion are occasionally better (never worse) because of the student's presence</li> </ul>
C	<ul style="list-style-type: none"> <li>• Limited interaction with peers</li> <li>• Preparation, and therefore level of participation, are both inconsistent</li> <li>• When prepared, participates constructively in discussions and makes relevant comments based on the assigned material</li> <li>• Group dynamic and level of discussion are not affected by the student's presence</li> </ul>
D	<ul style="list-style-type: none"> <li>• Virtually no interaction with peers</li> <li>• Rarely prepared</li> <li>• Rarely participates</li> <li>• Comments are generally vague or drawn from outside of the assigned material</li> <li>• Demonstrates a noticeable lack of interest (on occasion)</li> <li>• Group dynamic and level of discussion are harmed by the student's presence</li> </ul>
F	<ul style="list-style-type: none"> <li>• No interaction with peers</li> <li>• Never prepared</li> <li>• Never participates</li> <li>• Demonstrates a noticeable lack of interest in the material (ongoing)</li> <li>• Group dynamic and level of discussion are significantly harmed by the student's presence</li> </ul>

### Quiz Guidelines

Quizzes are completed outside of class and due at **8:00am on the day it is due**. No one is allowed to take the quiz in class (it will not be closed before class starts). Each quiz is open 48 hours before its due date/time or after the previous class. There is no time limit on quizzes but you **MUST SUBMIT before its due date/time**. There are no make-up quizzes.

### Lab Guidelines

There will be several lab activities distributed throughout this semester. The intent is for labs to be completed in class to help enhance your understanding of the concepts being presented. All lab work will be completed individually, in pairs, or small groups as announced in class and will be submitted for grading.

**Missed Class** Should you miss a class session where a lab is given, it must be completed individually and submitted by date due.

**Submission** Each lab must be submitted by following instructions posted on Blackboard. Electronic submissions are due at the end of the day (11:59 pm) on the date due. All work must be submitted through Blackboard. Do not email your assignment to the instructor; no homework is accepted via email.

**Late Penalty** Any assignment that is late will receive a deduction of 10% every 24 hours (a day). Work that is more than 3 days late will not be accepted. Assignments of which answers have been given will also not be accepted. For example, if an assignment is due Friday evening and if you turn it in anytime on Sunday, the grade is deducted 20%; any work turned in after the following Monday will receive a grade of 0.

### Test and Examination

All tests and exams are closed book exams and typically take the entire class period. Make up exams will not be given except in cases of extremely extenuating circumstances and are pre-arranged.

### Course Policies

#### UH Academic Honesty Policy: Strictly Enforced

University of Hartford Academic Honesty Policy

The purpose of the academic honesty policy is to provide a clear statement to students and faculty of the University's expectations regarding academic honesty and to set forth procedures for the enforcement of that policy. The procedures in this academic honesty policy are administrative functions and are not subject to the same rules as in criminal or civil proceedings. Throughout the following policy, the term college refers to any one of the schools or colleges of the University. The term University-wide program refers to programs such as multimedia Web design and development or the Bachelor of University Studies, which do not reside in a college. The term department chair refers to a department chair or, in the case of colleges that do not have departments, the equivalent of a department chair.

- All students are expected to observe generally accepted principles of scholarly writing in all examinations, compositions, papers, essays, tests, quizzes, reports, and dissertations whether written in the class room or outside. Sources of information used by a student in the preparation of work submitted as a basis for credit, or for a grade, or to satisfy graduate or undergraduate thesis requirements shall be clearly indicated in some conventional manner, such as by the use of quotation marks, footnotes, and bibliography.
- Students are forbidden to submit as their own any project, paper, or creative work that is in whole or part the work of another.
- The use of a term-paper writing service is prohibited. Also prohibited is the use of term papers obtained from the Internet, in whole or in part.
- All examinations and quizzes are to be completed without reference to books or notes except when the instructor of a course shall have given explicit authorization for an "open-book examination" or some other specified sort of assistance. Except as authorized by the instructor, no student is to give or receive assistance in the completion of an examination or a quiz.
- Other examples of academic dishonesty include, but are not limited to, the falsification of academic documents, such as transcripts, registration materials, withdrawal forms, or grade reports, as well as the unauthorized reading, removing, or copying of any academic document or record maintained by any member of the faculty or administration.

Your work for this course (assignments, labs, quizzes, tests, exams) must be completed by you - the student - without the help of external sources such as the Internet or a friend. **Googling answers online is NOT ACCEPTABLE and constitutes academic dishonesty.**

**At the first violation of academic dishonesty, the student receives a 0 for the work. On second offense, the student receives an F for the course.**

**A&S Academic Misconduct:** In the event that it is determined that you violated the Academic Honesty Policy, found in "the Source," the dean of your college will be notified and a note will be placed in your permanent file. If previous violations have been filed, any penalty that may be assigned for the offense may be more severe than for a first time offense. If this is the first recorded offense, subsequent violations of the honesty policy may then incur a steeper penalty.

### **Email & Blackboard**

Course materials (announcements, homework assignments, etc.) will be made available through Blackboard at <http://blackboard.hartford.edu>. Blackboard is to be used as a supplement to class lectures. All important announcements will be made in class. Routine announcements will be made available on Blackboard. However, you are responsible for all announcements and expectations explained in both Blackboard and during class. You are not to rely solely on Blackboard.

Your Blackboard account allows you to personalize your information, including your preferred email account. In your "Blackboard Home Page" on the left frame, there is a "Personal Information" link which allows you to edit your information. It is your responsibility to make sure that the email account set here is the one you check regularly and that the Inbox for that email is not rejecting incoming mail.

### **Student Illness**

The instructor recognizes that students may occasionally become incapacitated by a brief illness or injury and will be unable to attend class or complete a graded assignment or test on time. In the latter case, you are expected to notify your instructor (in advance if at all possible) that you cannot complete the work due to illness or injury. Following the [University of Hartford's Policy of Student Illness](#) as listed on [The Source](#), the student must:

1. visit the University Health Center, a doctor, or hospital for treatment on the day that you are sick and get documentation of the visit,
2. email the instructor in advance (or if not possible, within 24 hours of missed class, test, or assignment) to tell her that you cannot attend (and/or complete work) and that you are seeking or have sought treatment, and
3. as soon as you are able to come to class, bring your documentation of your doctor's visit to your instructor and arrange to make up missed work.

Allowing you to make up missed tests and assignments is at the instructor's discretion. For extended illness (a week or more), email the academic services office of YOUR college or school. Documentation of treatment is required. Do not visit the University Health Center after the day you are sick. They will not issue documentation that you were sick on the previous day.

### **Participation and Attendance**

Students are expected to attend ALL classes and are responsible for missed classes and lecture materials. Again, you are expected to attend every single class during the semester. Additional material will be provided and covered in class as the instructor deems appropriate. Any material and information you miss is your responsibility. No excuses will be accepted for poor grades. If you must be absent from a class, you must let me know either by phone or e-mail and you are responsible for any material covered or homework assigned. Informing me of your absence does NOT excuse you from any work due that day nor permit you to makeup an exam.

### **Computer and Other Electronic Equipment-use Policy**

**When classes meet in a room equipped with computers, students are expected to use the computers for the purposes of completing assigned work only. At no circumstances will a student be allowed to surf the Internet, check email during a class, or use the computers for any other purpose. In violation, a student will face serious consequences.**

Use of any electronic equipment (or otherwise) that is annoying or disrupting is not allowed in class. Such devices include mobile phones, beepers, PDAs, laptops, among others.

### **Students with Special Needs**

Student athletes and students registered with Learning Plus must inform the instructor of their special needs as soon as possible. This also applies to other students with any other concerns. The instructor will accommodate the student based on their special needs.