

# CSC 111: Introduction to Computers and Basic Programming

## Fall, 2016

<b>Instructor</b>	C. Kikuchi	<b>E-Mail</b>	<a href="mailto:ckikuchi@csudh.edu">ckikuchi@csudh.edu</a>
<b>Classroom</b>	SCC 800	<b>Class Time</b>	Mondays & Wednesdays 10:00 - 11:15AM
<b>Office</b>	SAC 1115 – Office 1	<b>Office Hours</b>	Mondays & Wednesdays 11:30 AM– 12:30 PM
<b>Blackboard Course:</b> CSC111-02_2168_40823: Intro Computers And Basic			
<b>Notes:</b>			
<ul style="list-style-type: none"> <li>• We will be using the Blackboard classroom as a repository for me to post resources for you.</li> <li>• To access Blackboard, use same username and password as you do for retrieving your toromail or myCSUDH.</li> <li>• Feel free to email me at any time. If you do, PLEASE use CSC 111 as the subject line for all email messages you may send me. Your using the correct subject line will better help me to help you. Sign your full name to all email. Thank you.</li> </ul>			

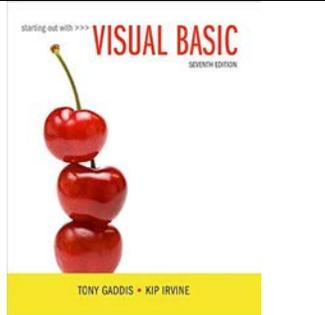
### CATALOG DESCRIPTION:

Introduction to computer programming with particular emphasis on small systems through programming in the BASIC language.

**PRE-REQUISITE:** *none*

PREREQUISITES BY TOPIC: *none*

### TEXTBOOK:

<p><i>Starting Out with Visual Basic, 7th Ed.</i>  <b>Author:</b> Gaddis, Tony Irvine, Kip  <b>Date:</b> 2016, February 26  <b>Publisher:</b> Pearson  <b>ISBN:</b> 978-0134400150</p>	
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### SOFTWARE:

This course will be using **Visual Basic** from the Visual Studio 2015 Professional package. The Computer Science Department is a member of Microsoft DreamSpark, which provides development software, operating systems and server software to Computer Science Students Only (for free!). Access to software downloads: [Computer Science Department Microsoft DreamSpark \(https://e5.onthehub.com/WebStore/ProductsByMajorVersionList.aspx?ws=d14a73d5-ee9b-e011-969d-0030487d8897&vsro=8\)](https://e5.onthehub.com/WebStore/ProductsByMajorVersionList.aspx?ws=d14a73d5-ee9b-e011-969d-0030487d8897&vsro=8). Search for **Visual Studio 2015 Professional**. Accounts for

Computer Science students are created at the beginning of each semester. If you do not have an account, please contact Ken Leyba [kleyba@csudh.edu](mailto:kleyba@csudh.edu) for accounts or additional downloads.

### **COURSE GOALS:**

An introduction to computers and programming with particular emphasis on small systems through programming in the Visual Basic.

### **COURSE OUTCOMES:**

Upon completion of this course, the student will:

- Be able to have a general understanding of a contemporary computer and a working knowledge of the programming language Visual BASIC
- Be able to have a basic understanding of programming concepts
- Be familiar with data representation and manipulation
- Be able to create and use various iterative structures and control statements
- Be able to create simple GUI based programs
- Be able to write simple programs using the VB programming language

### **METHODOLOGY:**

Classes will assume that you have read the required materials and prepared the assignments. Classes will include lecture, discussion, participation, and opportunities to work with Visual Basic to learn programming.

### **ATTENDANCE:**

The student is responsible for materials missed during an absence, whether excused or not. Classes will start at the prescribed time and will end at the prescribed time. Attendance will be taken during each class. If you come to class late, it is your responsibility to make sure that you have not been put down as absent. An absence is counted as not being in class for any reason. It remains your responsibility to obtain information concerning the material covered and upcoming assignments.

### **GRADING BREAKDOWN:**

(5) homework assignments (5% each)	25%
(7) quizzes (students will take 7 quizzes, but the lowest quiz grade will be dropped - 3% each)	18%
(7) Labs (1% each)	7%
Midterm Exam	20%
Final Exam	30%
<b>TOTAL</b>	<b>100%</b>

**GRADES POLICY:**

Student performance in each course is reported at the end of each semester by one of the following grades (with the grade points earned):

Grade	Grade Points
A	4.0
A-	3.7
B+	3.3
B	3.0
B-	2.7
C+	2.3
C	2.0
C-	1.7
D+	1.3
D	1.0
F	0.0
I	
IC	
WU	
W	

**HOMEWORK PROJECTS:**

There will be six homework assignments. All papers must have your full name, class title and section, and assignment number written on them. Submission of the 6 homework assignments will be counted into the course grade (20%).

**LABS:**

There will be a number of labs and it is *vital* that students attend the lab and do the work. Successfully accomplishing the lab work will help students be able to complete their homework assignments and be more successful in taking quizzes and exams. Submission of the 7 labs will be counted into the course grade (7%). **Students who do not finish the assigned lab in the allotted time or those students who**

**were not in class on the lab day will be expected to submit the lab at the start of the next class session.**

## **QUIZZES & TESTS:**

### ***Quizzes:***

Each quiz will be a combination of short answer, fill-in the blank, multiple choice, essay questions, and problems. Quizzes will cover at least one chapter and the lecture notes for those chapters. There will be a total of seven quizzes. The lowest quiz grade will be dropped. If you miss a quiz day, there is no makeup. That will be your dropped quiz grade. The quizzes are counted into the course grade at 18%.

### ***Exams:***

Each examination will be a combination of short answer, fill-in the blank, multiple choice, essay questions, and problems. Attention to class discussions, being able to discuss and apply assigned reading materials, participating in class, and completion of assignments and projects will prepare you for the examinations. The midterm will cover Chapters 1 - 4 and the lecture notes and the final exam will cover Chapters 1-4, 5, 6, & 8 and the lecture notes with emphasis on chapters 5, 6, & 8. The midterm has a value of 25% and the final exam has the value of 30% of the course grade.

## **LATE ASSIGNMENTS:**

In order to receive full credit, assigned work must be submitted on the scheduled due dates. Late assignments will **not** be accepted. If an assignment is missed, **documentation must be provided showing the reason for the student's absence.** No makeup assignment will be given without sufficient written documentation. Arrangements for make-ups of the midterm and final exam are made only for official emergencies and must be made prior to the examination. Documentation must be provided showing the reason for the student's absence. **Quizzes cannot be made up.** If you miss a quiz day, there is no makeup. That will be your dropped quiz grade.

You will have a long lead time in which to prepare, ask questions, and seek help. Therefore, unless a major accident, illness, or work assignment (with supporting documentation) prevents you from submitting work on time, late assignments will not be accepted.

All materials submitted must be original materials developed solely for use in this course and must conform to CSUDH's academic policies. Submission of reused materials may result in a reduced grade or non-acceptance of the assignment, at my discretion.

## **EXTRA CREDIT:**

There are no extra credit opportunities for the class.

## **PREPARATION:**

The assignments and labs are designed to give the student practical experience with the theory presented. Students having trouble with the projects are encouraged to seek help from a classmate, the instructor, or other person. Do not wait until the last minute to begin work on your projects.

Many of the benefits of this course are derived from practicing the learning techniques with others. Good learning, like good work, is collaborative and social; learning is not competitive, and learning is not achieved in isolation. By sharing your ideas with others, and responding to their reactions, not only will your thinking skills be sharpened, but your understanding of the subject deepened as well.

Group work is encouraged, but only for studying the material discussions. Note that plagiarized programs or exams, whether or not copied in whole or in part, will receive a grade of 0 (zero).

### **AMOUNT OF TIME STUDENTS SHOULD SPEND ON THE COURSE:**

Experience shows that you should, at a minimum, spend three to six hours per week engaged in study, research, and conference-preparation activities for each class a student is enrolled.

Students with work/professional responsibilities, family/personal commitments, or both, may have difficulty successfully completing courses above the recommended workload. It is important to be honest with yourself about the amount of time and energy you will have to devote to this course.

Homework Projects will usually take anywhere from half an hour to five hours to complete, depending on the student.

The key to success is not to wait until the last minute to read required course materials or begin work on assignments and projects.

### **TUTORING:**

This fall, the Toro Learning Center will have a tutor for computer courses. You may contact the tutoring center by going to their [website](#) or by calling 310-243-3827. You will need to have your CSUDH ID card.

### **LIBRARY SUPPORT:**

Extensive library resources and services are available online, 24 hours a day, seven days a week at <http://www4.csudh.edu/library/> to support you in your studies. The CSUDH Library provides research assistance in creating search strategies, selecting relevant databases, and evaluating and citing resources in a variety of formats via its RESEARCH HELP service at <http://www4.csudh.edu/library/research-help/index>.

## **GENERAL POLICIES**

### ***ACADEMIC HONOR CODE:***

Programming assignments must be done individually. Failure to do so will result in a violation of the CSUDH Academic Honor Code. The following cases will be considered as violations: identical code, and extremely similar code. Violations will be reported to the Office of Vice President of Academic Affairs.

### ***ATTENDANCE POLICY:***

Class attendance is obligatory even if roll is not called. Those absent or late may lose credit and miss assignments. It is student's sole responsibility to find out what was covered and assigned during the classes he/she missed.

### ***STUDENT ACADEMIC APPEALS PROCESS:***

Authority and responsibility for assigning grades to students rests with the faculty. However, in those instances where students believe that miscommunication, error, or unfairness of any kind may have adversely affected the instructor's assessment of their academic performance, the student has a right to

appeal by the procedure listed in the Undergraduate Catalog and by doing so within thirty days of receiving the grade or experiencing any other problematic academic event that prompted the complaint.

***ADA STATEMENT:***

Students with disabilities, who believe they may need an academic adjustment in this class, are encouraged to contact me as soon as possible to better ensure receipt of timely adjustments.

***DEFINITION OF CHEATING AND PLAGIARISM:***

CSUDH is dedicated to a high standard of academic integrity among its faculty and students. In becoming part of the California State University academic community, students are responsible for honesty and independent effort. Disciplinary action will be taken against any student who alone or with others engages in any act of academic fraud or deceit. (Read University Regulations in University Catalog)

## COURSE OUTLINE

Week 1 08/22 & 08/24	Welcome to class Mini lectures: No Fear, the PDLC, and The Structure Theorem Chapter #1: Chapter 1 - Introduction to Programming and Visual Basic <b>Lab One</b>
Week 2 08/29 & 08/31	Chapter #1: - Introduction to Programming and Visual Basic (continued) Mini lectures: Top Down Design and Pseudocode <b>Quiz One</b> (Chapter 1) Chapter #2: Creating Applications with Visual Basic
Week 3 09/07 <b>Monday, 09/05 - Labor Day Holiday-Campus Closed, No Classes</b>	Chapter #2: Creating Applications with Visual Basic (continued) <b>Lab Two</b> <b>Programming Assignment One Assigned</b>
Week 4 09/12 & 09/14	<b>Quiz Two</b> (Chapter 2) Mini lecture: Binary Chapter #3: Variables and Calculations
Week 5 09/19 & 09/21	Chapter #3: Variables and Calculations (continued) Chapter #4: Making Decisions <b>Lab Three</b> <b>Programming Assignment One Due</b> (September 21) <b>Programming Assignment Two Assigned</b>
Week 6 09/26 & 09/28	<b>Quiz Three</b> (Chapter 3) Chapter #4: Making Decisions (continued)
Week 7 10/03 & 10/05	Chapter #4: Making Decisions (continued) <b>Lab Four</b> <b>Programming Assignment Two Due</b> (October 05) <b>Programming Assignment Three Assigned</b>
Week 8 10/10-10/12	<b>Quiz Four</b> (Chapter 4) Review for Midterm <b>Midterm</b> (Chapters 1 - 4 and lecture notes)
Week 9 10/17 & 10/19	Chapter #5: Lists and Loops <b>Lab Five</b> <b>Programming Assignment Three Due</b> (October 19)
Week 10 10/24 & 10/26	Chapter #5: Lists and Loops (continued)

Week 11 0/31 & 11/02	Chapter #5: Lists and Loops (continued) <b>Quiz Five</b> (Chapter 5) <b>Programming Assignment Four Assigned</b>
Week 12 11/07 & 11/09	Chapter #6: Procedures and Functions <b>Lab Six</b>
Week 13 11/14 & 11/16	Chapter #6: Procedures and Functions (continued) <b>Quiz Six</b> (Chapter 6) <b>Programming Assignment Four Due</b> (November 16) <b>Programming Assignment Five Assigned</b>
Week 14 11/21 & 11/23	Chapter #8: Arrays and More
Week 15 11/28 & 11/30	Chapter #8: Arrays and More (continued) <b>Lab Seven</b> <b>Programming Assignment Five Due</b> (November 30)
Week 16 12/05	<b>Quiz Seven</b> (Chapter 8) Review for Final Exam
<b>December 6 Tuesday Last Day of Scheduled Classes</b>	
December 8-14	<b>Final Examinations.</b> Comprehensive (covers all material)

**SYLLABUS CHANGES:** All items on this syllabus are subject to change.  
[CSUDH 2016-2017 Academic Calendar](#)