COP1000C – INTRODUCTION TO PROGRAMMING CONCEPTS
Spring 2015 (201520) Full Term, CRN 26258

Instructor	Greg Rhodes
e-mail	grhodes4@valenciacollege.edu
Class Web Site	http://frontdoor.valenciacollege.edu/?grhodes4
Class Time and Location	Wed. 7PM – 9:45PM, East Campus Bldg 002 Room 305A
Office Hours	I don't have an office, but I will be available for meeting before or after class with prior arrangement. Feel free to email me, but don't expect a reply before 8pm.
Catalog Course Description	A hands-on introduction to analyzing, designing, coding, and testing computer programs. Students will develop algorithms for problem solving with an emphasis on good programming practices. Students will use programming techniques including control structures, files management, arrays, and subprograms to design and code basic programs using a modern computer language. Other topics include working with data, number systems, and an introduction to object-oriented and event-driven programming. This course prepares students for software development courses in programming and web development. Students with a demonstrated background in computer programming (transcript, job experience, or waiver exam) may request to have this course waived as a pre-requisite to subsequent courses through the department office. (Special Fee: $42.00)
Prerequisites	None

Course Outcomes

The student will:

1. be able to describe the steps in the software development cycle.
2. understand number systems and the internal representation of data.
3. be able to describe different data types, use variables, and build expressions.
4. be able to solve problems involving simple sequences of statements.
5. be able to solve problems using selection statements.
6. be able to solve problems using repetition statements.
7. be able to create and use arrays of data.
8. be able to create and call modules.

Educational Materials

Optional Textbook: <u>Computer Science: A Structured Programming Approach Using C</u>, Forouzan & Gilberg (3rd edition) ISBN: 0-534-49132-4

Assessment Methods

The course will be taught through a combination of lecture, classroom exercises and discussions, homework assignments, and a final project. Students will be expected to participate in these activities. Students should **not assume** that there will be class time to complete all homework and classroom exercises.

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There will a total possible 700 points made up of the following:

Item	# of Items	Points per item	Total points
Homework	10	10	100
In Class Activities	10	10	100
Tests	3	100	300
Final Exam	1	100	100
Project	1	100	100
Total			700

Grades will be assigned based on the following total points: 630 – 700 = "A", 560 – 629 = "B", 490 – 559 = "C", 420 – 489 = "D", 419 or less = "F".

Tests will be based on material from class lectures, in class activities, and homework assignments. There will be a required comprehensive final exam given on **Apr 29, 2015**. The final exam grade may also replace your lowest exam grade or one missed exam**.**

Homework is a **required** part of this course. Assignments must be submitted by the beginning of class on the due date. Late assignments will not be accepted. All assignments must be typed unless otherwise noted by the instructor. Note: from past experience, students who do not keep up with the homework assignments have a low success rate in completing the class.

*NOTE: The final exam is required and students must take the final exam at the scheduled examination time. Failure to do so will result in an assigned grade of 0 for the final exam, unless arrangements have been made for a make-up exam in accordance with College policy. Any assignment not turned in by the due date will result in a grade of 0 for that assignment.

Important Dates

Full Term (Start / End Dates)	Jan 12, 2015 – Apr 26, 2015
Drop/Refund/No Show Deadline	Jan 20, 2015 11:59pm
Last day student can withdraw themselves for "W" grade	Mar 27, 2015 11:59pm
Final Exam	Apr 29, 2015
Credit classes do not meet	Jan 19, 2015 (MLK) Feb 13, 2015 (Learning Day) Mar 9-15, 2015 (Spring Break)

See the college calendar for important dates and final exam schedule at http://valenciacollege.edu/calendar

No-Show Procedure Any student who does not attend class by the No Show/drop/refund deadline for this course's part of term will be withdrawn by the instructor as a no-show. This will count as an attempt in the class, and students will be liable for tuition. If your plans have changed and you will not be attending this class, please withdraw yourself through your Atlas account during the drop period for this part of term.

Attendance Classroom attendance and punctuality are vital to academic success. If you miss a class, you need to contact a classmate to get the notes you missed. I do not withdraw students for non-attendance. The only exception is if you do not attend prior to the no show deadline, you will be withdrawn as a no show. If you do not intend to complete the course you must withdraw yourself prior to the withdrawal date. If you do not withdraw, you will receive the grade earned.

Withdrawal
Per Valencia Policy 4-07 (Academic Progress, Course Attendance and Grades, and Withdrawals), a student who withdraws from class before the established deadline for a particular term will receive a grade of "W". A student is not permitted to withdraw after the withdrawal deadline of **Mar 27, 2015**. A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of "W". (However, I do not withdraw students for non-attendance.) Any student who withdraws or is withdrawn from a class during a third or subsequent attempt in the same course will be assigned a grade of "F". For a complete policy and procedure overview on Valencia Policy 6Hx28:4-07 please go to: http://valenciacollege.edu/generalcounsel/policy/.

NOTE: Before choosing to withdraw, students should speak first with your professor regarding your progress in the course and with an Academic Advisor to discuss the impact of the W on your academic progress, future fees, and financial aid.

Make Up Policy
Homework and the final project are due by the start of class on the due date. Email it to me prior to the due date if you won't be in class. Failure to turn in an assignment by the due date will result in a 0 for that assignment. You must be in class for the in-class activities. If you are not in class for the in-class activities, you will receive a 0 for that activity. However, I will allow one in-class activity to be made up if you miss a class. You are responsible for contacting me prior to the next class period to receive the activity. The activity must be turned in by the start of the next class. If you know in advance you will miss class on test day, you can contact me to have the test placed in the testing center. You will need to take the test prior to the regularly scheduled test time, so you will need to contact me at least 3 days in advance. If you miss a test, you will receive a 0 for that test. However, your final will count as two tests and your missed test score of 0 will be dropped.

Standards of Classroom Conduct
Valencia College is dedicated to the advancement of knowledge and learning and to the development of responsible personal and social conduct. By enrolling at Valencia College, a student assumes the responsibility for becoming familiar with and abiding by the general rules of conduct as listed in 6Hx28: 8-03 and the Student Handbook. Even though Faculty manage the classroom environment, the primary responsibility for maintaining a respectful and civil learning environment rests with the students. Students who violate the Student Code of Conduct may be referred to the Dean of Student's Office for disciplinary action, which may result in a sanction up to and including expulsion. http://valenciacollege.edu/generalcounsel/policy

Academic Honesty
Each student is required to follow Valencia policy regarding academic honesty. All work submitted by students is expected to be the result of the student's individual thoughts, research, and self-expression unless the assignment specifically states "group project." Any act of academic dishonesty will be handled in accordance with Valencia policy as set forth in the Student Handbook and Catalog.

College Policies
A full description of all College policies can be found in the College Catalog at: http://www.valenciacollege.edu/catalog/ ; Policy Manual at http://www.valenciacollege.edu/generalcounsel/ ; and the Student Handbook at http://valenciacollege.edu/studentdev/CampusInformationServices

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Student Assistance Program	Valencia College is interested in making sure all our students have a rewarding and successful college experience. To that purpose, Valencia students can get immediate help with issues dealing with stress, anxiety, depression, adjustment difficulties, substance abuse, time management as well as relationship problems dealing with school, home or work. BayCare Behavioral Health Student Assistance Program (SAP) services are free to all Valencia students and available 24 hours a day by calling (800) 878-5470. Free face-to-face counseling is also available.
Office of Students with Disabilities Information	Students with disabilities who qualify for academic accommodations must provide a Notification to Instructor (NTI) form from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor, preferably during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities. East Campus Bldg. 5, Rm. 216 Ph: 407-582-2229 Fax: 407-582-8908 TTY: 407-582-1222.
Course Policies	All cell phones and other communication devices are to be turned off or placed on silent mode before entering the classroom. If a cell phone is audible, the student will be asked to turn it off or leave for the remainder of the class. I understand that there may be unique work or family situations that require you to be contacted. If this is the case, then: 1. the student must notify the instructor prior to the beginning of class 2. sit near the door so that you can leave the classroom with minimum disturbance to your peers before answering the phone
Disclaimer	Changes may be made at the discretion of the instructor.
Schedule	This is an approximate schedule of the topics that will be covered. Week 1 – Introduction to programming Week 2 – Problem Solving Process Week 3 – Variables, Constants, & Arithmetic Operators, Number systems Week 4 – Test 1 and Functions Week 5 – More Functions Week 6 – Selection Structures Week 7 – More Selection Structures Week 8 – Test 2 and Repetition Structures Week 9 – No Class Spring Break Week 10 – More Repetition Structures and Function Parameter Passing Week 11 – Arrays Week 12 – String Manipulation Week 13 – Test 3 and Sequential Access Files Week 14 – Classes and Objects Week 15 – Review for final, Final Project due Final Exam – Apr 29, 2015 7:45PM – 10:15PM A more detailed schedule (and any updates) will be posted on the instructor's website.