COP 1000 ONLINE
Introduction to Programming Concepts
Summer 2012 CRN 33731

Professor: Lisa Macon, Ph.D.
Office: Building 9, Room 140C
Phone: 407-582-1420
Email: L.Macon@valenciacollege.edu
Course Website: http://online.valenciacollege.edu (Blackboard)

Office Hours (Appointment Suggested)
M 10:00 am – 11:00 am and 1:30 – 2:30 pm
TWR 1:00 – 3:00 pm

Virtual Office Hours (Available via Email or Blackboard)
Sun 10:00 pm – 11:00 pm
F 10:00 am – 11:00 am

COURSE DESCRIPTION
A hands-on introduction to analyzing, designing, coding, and testing computer programs. Students will develop algorithms for problems solving with an emphasis on good programming practices. Students will use programming techniques including control structures, file 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-orientated and event-driven programming. This course prepares students for software development courses in programming and Web development.

PREREQUISITES
None. However, a basic proficiency working with computers and file management is expected.

ATTENDANCE POLICY
All students are expected to attend all classes. In addition, to fulfill the online component of our class, it is expected that you log in to Blackboard pretty much daily. The instructor will be logged in several times a day and many of your classmates will be logged in daily, so in order to keep up with their questions and any announcements, you will want to try to do the same. I expect all students to participate on the course bulletin board and the requirements for this are discussed below. ALL students are expected to read ALL bulletin board posts regularly. This is not optional.

Withdrawal deadline: To receive a grade of W, you must withdraw by Friday, March 23, 2012. After this date, students may not withdraw and will receive the grade they earn in this class. Please note that I do not withdraw students for any reason.

REQUIRED MATERIALS

There is no text book required for this class. You will be using online videos to learn the material. Therefore, a broadband Internet Connection is highly recommended.
Software: You must have Visual Studio or, for Mac users, XCode or Eclipse. You can download the express version of Visual Studio here: http://www.microsoft.com/express/vc/Default.aspx
Or, contact Ian O’Toole at iotoole@valenciacollege.edu to obtain the full version of Visual Studio through the Microsoft Developer Network Academic Alliance (free to students!)
XCode for Mac OS 10.7 Lion is available for free through the Mac App Store.
Eclipse is an open-source Mac IDE for C/C++/Java and can be downloaded many places. Use Google to find it.

EVALUATION METHODS

1. Assignments: This class is project based. You will be working on various assignments over the course of the semester to master the material.
2. Online discussion participation: Instructional material and student assignments will be posted on our class site in Blackboard. Each student must post AT LEAST 10 posts over the course of the semester. These posts may be questions, answers to other students’ questions, or a combination of questions and answers. Posts that are not substantive in the opinion of the instructor will not count towards this requirement. The deadline for posting will be midnight on July 24, 2012.

There will also be a midterm and final exam. These are in a take-home format available on Blackboard, and you have an entire week to complete them.

The final grade will be computed as follows:
1. Homework Assignments – 270 points (9 assignments at 30 points each)
2. Discussion Board Posts – 30 points (3 points for each substantive post up to 10)
3. Midterm Exam – 100 points
4. Final Exam – 100 points

GRADING
Letter grades will be determined using a standard point evaluation as outlined below:
A 450 points – 500 points
B 400 points – 449 points
C 350 points – 399 points
D 300 points – 349 points
F less than 300 points

SOFTWARE PIRACY
Software piracy (the illegal procurement of copyrighted software) is not tolerated at Valencia Community College and will not be permitted in this course. Any student who is caught pirating software or even DISCUSSING techniques for pirating software in this class will receive an automatic F in the course and will be reported to the administration. Please note that software piracy is a crime and may lead to up to 15 years imprisonment if convicted.

COURSE POLICIES
This is an online course. All of your learning will take place when you watch the online videos, work on the assignments and communicate with the class over the Internet via our online classroom in Blackboard. Please realize that even though our class never meets in person, you are still expected to do the same amount of work as classes that meet 2.5 hours a week in a 16 week semester (plus about 3 hours to do assignments on top of that) so you WILL be doing A LOT of work. It is your responsibility to make time to do this work.
All students are expected to use the Blackboard system for their work. All students will be expected to complete the online Blackboard training module if they do not know how to use Blackboard.

Problems with your computer at home will not serve as an excuse to turn in work late. Therefore, you must be sure you have access to a computer to be successful in this class. Be sure to keep backup copies of your work at all times to avoid losing points should your computer suddenly fail to function or your storage device crash.

It is the student’s responsibility to keep track of assignment due dates and to ensure that assignments are turned in on time. The following common student mistakes will not constitute a valid excuse for turning in late homework and should be avoided by all students (Students should check the correctness of their work before sending):

1. Doing the homework on time but forgetting to submit it via the Blackboard Assignment by the deadline.
2. Submitting the homework on time but not including the proper homework attachment.
3. Logging into WebCT/Blackboard, accessing the Assignments tool, completing the attachment or link, and forgetting to hit the Submit button.

Please note that students are expected to be courteous and respectful of one another in their posts to the course bulletin board. We will be polite and helpful to one another, both in class and online. Students who violate this rule will be immediately disciplined in the manner deemed appropriate by the course instructor.

Fairness Policy
Valencia is a great place for students with multiple obligations to pursue an education, as we offer many different class scheduling options and we are committed as an institution to helping students reach their goals. However, it is crucial to the success of our students after graduation (or upon transfer) that we maintain the academic integrity of our classes. Please understand that all students must earn grades using the same scale in order to maintain integrity and provide a level of fairness to all students within a class. Unfortunately, it is not possible to grade students based on what they are experiencing in their individual personal lives because many students are working full time and supporting and raising families, often as single parents. While I am always willing to talk to you and to advise you through difficult times, it would not be fair to your fellow classmates, many of whom are going through or have gone through similar situations, for me to make grading exceptions for one student based on their life situation.

Online Student Assessment of Instruction
As part of our continuing goal to provide the best possible instruction for Valencia Community College students, the student evaluation of instructor form is now available online.

On a completely anonymous basis, all students are invited to complete this online form. To do so, go into Atlas, click on My Courses then click on the box at the right that says ‘Assessment Survey’. You will be able to submit one assessment form per class. After that, the form will no longer be available to you.

Please set aside some time toward the end of the semester to complete the assessment. By doing so, you will assist the instructor is assessing the effectiveness of his/her teaching methods and techniques. Thank you for your feedback.
**Academic Dishonesty Policy**
Plagiarism and cheating are serious offenses and may be punished by failure on the exam, paper, or project; failure in the course; and or expulsion from the College. Although students may work together on homework assignments, all work you turn in must be your own. Students may not collaborate on exams. Violation of this policy will result in a grade of zero for the exam for all parties involved. For more information, refer to the “Academic Dishonesty” policy in the Course Catalog.

**Students with Disabilities**
Students with disabilities who qualify for academic accommodations must provide a letter from the Office for Students with Disabilities (OSD) and discuss specific needs with the professor during the first two weeks of class. The Office for Students with Disabilities determines accommodations based on appropriate documentation of disabilities (West Campus  SSB 102, ext. 1523). The needs of students with appropriate documentation will always be supported in class.

**Note:** The instructor reserves the right to alter the syllabus via bulletin board announcement or announcement in class as she sees fit. Furthermore, the instructor reserves the right to assign one grade lower than earned for non-participation.
# Course Calendar

<table>
<thead>
<tr>
<th>Due Date</th>
<th>Topics Covered</th>
<th>Video Segments To Watch &amp; HW Due</th>
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<tbody>
<tr>
<td>5/14/2012</td>
<td>Getting Started, Variables and Data Types</td>
<td>Watch 1, 2</td>
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<td>Due: Syllabus Quiz</td>
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<tr>
<td>5/21/2012</td>
<td>Input Output, Arithmetic Operators, Problem Solving</td>
<td>Watch: 3, 4, 5</td>
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<td>Due: HW1</td>
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<tr>
<td>5/28/2012</td>
<td>Selection if-else, Problem Solving with Selection</td>
<td>Watch: 6, 7</td>
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<td>Due: HW2</td>
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<tr>
<td>6/4/2012</td>
<td>Repetition – while, Logical Operators</td>
<td>Watch: 8, 9</td>
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<td>Due: HW3</td>
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<td>6/11/2012</td>
<td>Mixed Type Expressions, Problem Solving with Repetition</td>
<td>Watch: 10, 11</td>
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<td>Due: HW4</td>
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<td>6/18/2012</td>
<td>Problem Solving with Repetition, Short-cut operators</td>
<td>Watch: 11, 12</td>
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<td>Due: HW5</td>
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<td>6/25/2012</td>
<td>More Loops do-while for, Switch</td>
<td>Watch: 13, 14</td>
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<td>Due: HW6</td>
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<tr>
<td>7/2/2012</td>
<td>Problem Solving with Repetition and Selection</td>
<td>Watch: 15</td>
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<td>Due: Midterm Exam (Available starting 6/26/2012)</td>
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<td>7/9/2012</td>
<td>Binary Numbers, Hexadecimal Numbers</td>
<td>Watch: A2, A3</td>
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<td>Due: HW7</td>
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<tr>
<td>7/16/2012</td>
<td>More Data Types, Arrays, Problem Solving with Arrays</td>
<td>Watch: 16, 17, 18</td>
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<td>Due: HW8</td>
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<tr>
<td>7/23/2012</td>
<td>Functions and Decomposition, Problem Solving with Functions</td>
<td>Watch: 19, 20</td>
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<tr>
<td>7/30/2012</td>
<td></td>
<td>Due: HW9, Final Exam (Available starting 7/24/2012)</td>
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## Notes

All assignments are accessed via Blackboard.

All assignments must be submitted as attachments using the Blackboard Assignment tool.

No other form of submission – including email in or outside of Blackboard – is accepted. Assignments not submitted using the Blackboard Assignments tool will receive zeros automatically.

Work may be submitted after the deadline, but it will receive at most half credit regardless of reason.

It is the student’s responsibility to make time to do their homework and to complete the homework before the deadline.

It is the student’s responsibility to ensure that they have access to a working computer system with a working Internet connection.

It is the student’s responsibility to ensure that their system supports Blackboard and all software needed for this class.

It is the student’s responsibility to be sure to start the assignments with enough time to allow for technical difficulties and the need for assistance.

I am always happy to help students who plan ahead and work hard. I may not have time to help students who leave their work until it is too late to be successful. Your work and your grade are only as important to me as they are to you.