

# The Course

Introduction to Programming Concepts COP1000C CRN 23374

Credits 03 Feb 12-Apr 29 (Spring Term)

Prerequisites(s) and Co-requisites(s): See Valencia Catalog

Days and Time: ONLINE ONLY

# Office Hours

# [**CLICK HERE**](http://frontdoor.valenciacollege.edu/?dhunchuck) or paste <http://frontdoor.valenciacollege.edu/?dhunchuck> into your browser.

# 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: $70.00).

# COURSE OUTCOMES:

* **The student will explain number systems and the internal representation of data.**

#### Corresponding Evidence of Learning

* Student will be able to Know how computers represent data internally
* Student will be able to Define basic storage units such as byte, Kbyte, Mbyte.
* Student will be able to Convert numbers from binary to decimal and from decimal to binary

### The student will be able to solve problems with simple sequence, selection, and repetition statements by using different data type variables, expressions, and flow of control.

#### Corresponding Evidence of Learning

* Student will be able to Define variables and constants, select the correct data type for a variable, and describe the relationship between variables and memory.
* Student will be able to Build expressions involving the assignment and the basic mathematical operators (+, -, \*, /, %).
* Student will be able to Evaluate logical expressions involving relational and logical operators
* Student will be able to Know when to use a selection and/or a repetition statement
* Student will be able to Solve problems using IF, nested IF statements and the Case structure
* Student will be able to Solve problems using counter-controlled, sentinel and nested loops.
* The student will be able to create and use arrays of data.

#### Corresponding Evidence of Learning

* Student will be able to List the benefits of using arrays
* Student will be able to Describe how arrays are represented in memory
* Student will be able to Solve problems using arrays

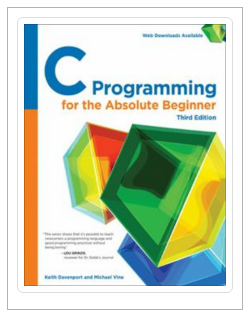
### The student will be able to create and call modules.

#### Corresponding Evidence of Learning

* Student will be able to List the benefits of decomposing large problems into modules
* Student will be able to Know how to create a module and call the module
* Student will be able to Solve problems using modules

# EDUCATIONAL MATERIALS

Course Web Site Only. Textbook: C Programming for the Absolute Beginner (3rd Edition) By Davenport, Keith, Vine, Michael \*\*\* This is a FREE eBook you can download it from the Valencia Library website \*\*\*



Additional supplies (if needed): Microsoft Visual Studios 2015 (Download from Microsoft Imagine or Microsoft)

# ASSESSMENT METHODS AND EVALUATION



# Calculation of final grade

The course will consist of many assignments and five exams. The average of all assignment will be used to calculate your assignment points. Maximum assignment points will be 100. Each of the five exams will be worth 100 points (this includes the final exam). The total possible points for the course will be 600. You will have the option to drop the lowest of the seven scoring opportunities; therefore, the course will be based on 500 points.

**Exam Due Dates will be as follows:**

1. Exam 01: Due April 15th
2. Exam 02: Due April 15th
3. Exam 03: Due April 22nd
4. Exam 04: Due April 22nd
5. Final Exam: Due April 27th

# Type of final

The final exam is a course requirement. Any student not completing the final exam by the time above will receive a zero for the final exam. Each student who does not withdraw his or herself from the course receive a grade for the course. If a student fails to complete the final exam, any exam, or assignment the student will receive a grade of zero for that exam or assignment.

# Grade Scale

A student’s grade will be calculated as follows:

**Assignment Grade** = Total of ALL Assignment Score + Attendance Points Gained by Student Divided by Total Possible Pts.

**Total Class Points = Assignment Grade + Exam 1 + Exam 2 + Exam 3 + Exam 4 + Final Exam – lowest score**

**Class Average = Total Class Points divided by 500.**

**Class Average >= 90% receives an “A” for the course.**

**Class Average >= 80% and < 90% receives a “B” for the course.**

**Class Average >= 70% and < 80% receives a “C” for the course.**

**Class Average >= 60% and < 70% receives a “D” for the course.**

**Class Average < 60% receives an “F” for the course.**

# IMPORTANT DATES: IMPORTANT CALENDAR DATES:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Full Term | H1 | TWJ | TWK | H2 |
| Classes Begin | Jan. 8, 2018 | Jan. 8, 2018 | Jan. 8,2018 | Feb. 12, 2018 | Mar. 1, 2018 |
| Drop/Refund/  No Show | Jan. 16, 2018  11:59 P.M. | Jan. 16, 2018  11:59 P.M. | Jan. 16, 2018  11:59 P.M. | Feb. 19, 2018  11:59 P.M. | Mar. 8, 2018  11:59 P.M. |
| Withdrawal  Deadline | Mar. 30, 2018 | Feb. 16, 2018 | Feb. 23, 2018 | Apr. 6, 2018 | Apr. 13, 2018 |
| Day/Evening  Classes End | Apr. 22, 2018 | Feb. 28, 2018 | Mar. 25, 2018 | Apr. 29, 2018 | Apr. 29, 2018 |
| Final Exams | Apr. 23-29, 2018 | Last Class Mtg | Last Class Mtg | Last Class Mtg | Last Class Mtg |
| Term Ends | Apr. 29, 2018 | Feb. 28, 2018 | Mar. 25, 2018 | Apr. 29, 2018 | Apr. 29, 2018 |
| NO CLASSES: January 15, February 9, and March 12-18 | | | | | |

# **The last date to submit any assignment or work due is April 15th to April 22nd. After April 22, 2018 the only thing that will be graded will be the final exam.**

# NO-SHOW PROCEDURE

Any student who does not complete at least one of the first week assignments **prior to the start** **of the No Show/drop/refund deadline** 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.

* If you do not complete one of the following assignments by Feb 18, 2018, you will be considered a no-show and will be removed from the class:
  + Bed to Seat Assignment
  + Terms Assignment
  + Hello Thread Assignment
  + Name Assignment
  + Hex to Bin Assignment
  + Variables and Math Assignments

# CLASSROOM POLICIES ATTENDANCE

Each class an attendance question will be posted in Blackboard. A student must respond to the question during that class to receive 5 attendance points. Attendance points will be added to assignment points for the class.

# WITHDRAWAL

**The instructor will NOT withdraw a student from the course after the No Show period. It will be the responsibility of the student with withdraw his or herself should the student no longer with to finish the course. All student who have not withdrawn from the course will receive a grade.**

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. **See Important Dates for the Withdrawal Deadline for the part of term of this course.**  A student who is withdrawn by faculty for violation of the class attendance policy will receive a grade of “W”. 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/](http://valenciacollege.edu/generalcounsel/%20)  .

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.

See College calendar for important dates and final exam schedule at  [http://valenciacollege.edu/calendar](http://www.valenciacollege.edu/calendar) .

MAKE-UP POLICY: Make up of assignments, quizzes, exams, and discussion questions will only be allowed in cases of documented student emergencies. For student emergencies, it is the student’s responsibility to contact the instructor and provide documentation within one week unless special arrangements have been made previously.

# 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://valenciacollege.edu/catalog/> ; Policy Manual at <http://www.valenciacollege.edu/generalcounsel/> ; and the Student Handbook at http://valenciacollege.edu/studentdev/CampusInformationServices

# 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

West Campus SSB, Rm. 102 Ph: 407-582-1523 Fax: 407-582-1326 TTY: 407-582-1222

Osceola Campus Bldg. 1, Rm. 140A Ph: 407-582-4167 Fax: 407-582-4804 TTY: 407-582-1222

Winter Park Campus Bldg. 1, Rm. 212 Ph: 407-582-6887 Fax: 407-582-6841 TTY: 407-582-1222

# NOTE TO INTERNATIONAL STUDENTS (F-1 OR J-1 VISA):

Please be advised that withdrawal from this course due to attendance may result in the termination of your visa status if you fall below the full-time enrollment requirement of 12 credit hours. Consult the International Student Services office for more information.

# SPECIAL RULES

**If you email the instructor, always include in the subject line the course number and CRN.**

**ALL WORK MUST BE SUBMITTED THROUGH BlackBoard** .

* **NO EMAILED WORK WILL BE ACCEPTED.**

DISCLAIMER: Changes may be made at the discretion of the instructor.

# SCHEDULE OF CLASSES AND/OR LABS

