SYLLABUS

COP 1000
Programming Logic

Term – SPRING 2013

Instructor’s Name:
Bala Kappagantula

Telephone Number:
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Email Address:
bkappagantula@hccfl.edu

Office Hours (Day, Time, Location):
Tuesday 5:00 PM to 5:30 PM, YBOR 303
8:15 PM to 8:45 PM, YBOR 303

Class Schedule:
Tuesday 5:30 PM to 8:15 PM

Course Description:
In this course, we will take an in depth look at some advanced programming concepts and techniques. We will examine theoretical concepts that make the world of programming unique. Also, this course will adopt a practical hands-on approach when examining programming techniques. Along with examining different programming strategies, this course will explore the advancement of program development, as well as, timeless problem solving strategies.

Course Objectives:
Upon successful completion of the course, the student will be able to:

1. Understand the steps involved in the programming process.
2. Understand the data hierarchy.
3. Be familiar with standard flowcharting symbols, especially, termination, input-output, process, decision, and module.
4. Be familiar with standard pseudocode syntax.

5. Be familiar with the three basic control structures: Sequence, IfThenElse, and DoWhile. Also be familiar with the additional structures Case and DoUntil.

6. Understand the basic structure of a procedural program: MainLineRoutine, Initialization, MainLoop, Termination.

7. Be familiar with the concept of structured program design and modularization.

8. Be familiar with hierarchy charts.

9. Understand the concept of variables and the importance of declaring variables.

10. Understand the concept of named constants and the advantages of using named constants.

11. Be familiar with file descriptions.

12. Understand the concept of arrays and how to manipulate them.

13. Be familiar with the concepts of object oriented programming: classes, objects, instance variables (properties, attributes), methods, and inheritance, etc

**Text Book and Materials:**

- Programming Logic and Design Comprehensive, Seventh Edition, Joyce Farrell

**Software:**

- MS Word, MS Visio

**Grading System:**

There will be 10 assignments, 5 class activities/Quizzes, 3 Exams.

- Assignment = 5 points x 10 = 50 points
- Class Activity/Quiz = 4 points X 5 = 20 points
- Exams = 10 points x 3 = 30 points

**Total = 100 points**

Assignments should be submitted at MyHCC by DUE date. No late submissions accepted. No exceptions.
Final Grading Scale

90 – 100 = A
80 – 89 = B
70 – 79 = C
60 – 69 = D
59 – Below = F

Academic Dishonesty Policy:

Any one handing in someone else's work as their work will receive a credit of ‘0’ points for the assignment. The supplier of the original work will also receive ‘0’ points for the assignment.

Attendance Policy:

Please go through HCC attendance policy particularly students receiving financial aid. Attendance will be taken during each class & students are encouraged to attend every class. Even though there are no points for attendance, class activities/quizzes carry 4 points each.

Instructional Methods (Including Examination Policies):

I prefer to go with visual presentations and hands-on learning. Notes, additional resources will be posted on my Faculty website.

Cell Phone Etiquette:

Ideally, you would turn the phone off as you enter the classroom. Immediately turn off your ringing cell phone.

Microsoft Software Purchases

Students at HCC have the ability to purchase Microsoft software for heavily discounted prices from retail. Examples of software available through this program include MS Office 2007, Windows Vista, MS Visio, and other related Microsoft products. These software products are the full academic versions and have the same benefits as software purchased off the shelf at a retail store. Students will need to access a website at http://hccfl.onthehub.com and will need to provide their HawkMail email address to be properly authenticated. This program requires that students pay for their selected software products with a credit card and the software will be mailed to their home address. Students will be allowed to purchase only one copy of a selected software product.