Chaminade University
Computer Science and Computer Information Systems
Dr. Martins

Syllabus - CS150: Introduction to Programming

1. General Information

Classroom: *H121*	**Email:** *pmartins @chaminade.edu*
Instructor: *Dr. Martins*	**Office Hours:** *T,Th: 11:00-11:50, F:2:00-4:00*
Office Number: *Keiffer #26*	*Or by appointment. Send me an email*
Telephone: *(808) 739-4601*	**Fax:** *(808) 440-4249*
Lecture Hours: *M,W,F: 1:00-1:50 & W:2:00-2:50*	**Course Credit:** *4*
Prerequisites: • CS 103 - Comp & App Software • MA 103 - College Algebra	**Section:** *Fall 2004*

Web site: http://acad.chaminade.edu/faculty/pmartins

2. Course Description

 This course will cover the basic concepts and techniques of algorithm development and programming. Visual Basic will be used as the programming language. Although there are no specific programming prerequisites for the course, a familiarity with the use of the microcomputer under the Windows environment is assumed. The course is the first in a series of core courses required for a major or a minor in *Computer Science* and *Computer Information Systems* at Chaminade University.

3. Learning Outcomes

 The course is intended to help the students to:

 • Become acquainted with the basic concepts of the computer, its organization, and its relationship to software systems
 • Become familiar with the top-down, stepwise refinement approach to algorithm design
 • Become familiar with the modular approach to program development
 • Learn a collection of basic algorithms
 • Become acquainted with event-driven programs
 • Learn the basic features of the Visual Basic language
 • Develop basic problem-solving skills using the computer
 • Lay a basis for subsequent courses in Computer Information Systems

4. Topics

Topics covered in this course will include the following:

- Distinction among *algorithm*, *pseudocode*, and *program*
- Steps in Programming
- VB Basics
- Input and Output
- General Procedures
- User-defined Functions
- Decision Structures
- Repetition Structures
- Arrays
- Form-level Declarations
- Algorithms Involving Arrays

5. Textbook

Title	ISBN#	Author	Priority
An Introduction to Programming Using Visual Basic 6.0	0-13-142707-5	David I. Schneider	Required

6. Evaluation

Evaluation	# Points	Tentative Dates
First test (FT)	0-15	09/29/04
Second test (ST)	0-15	10/27/04
Final exam (FE)	0-20	12/07/04
Quizzes (QZ)	0-30	random
Assignments (AS)	0-20	to be determined

- The final grade (FG) will be determined as follows: FG = FT+ST+FE+QZ+AS. Each exam will be graded according to the scale above.
- For example, a student that obtained 15 points in the first test, 13 in the second test, a total of 19 points in the final exam, 25 in the quizzes, and 20 points in assignments will accumulate a total of 92 points (meaning a final grade A).
- Quizzes will be the mean average of all quizzes taken, scaled from 0-30. It can be calculated as QZ = 3 * (Q1 + Q2 + Q3 +...Qn)/n, where n is the total number of quizzes in this course. Each quiz will be graded in a scale from 0-10.
- For example, if there are five quizzes, then QZ = 3*(Q1 + Q2 + Q3 + Q4 + Q5)/5. The same applies to the calculation of your grade on assignments.

7. <u>Grading</u>

Grade	Interpretation	Points
A	Unusual degree of intellectual initiative.	90-100
B	Superior work done in a consistent and intellectual manner.	80-89
C	Average grade indicating a competent grasp of subject matter.	70-79
D	Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite course work.	60-69
F	Failed to grasp the minimum subject matter; no credits given.	00-59

8. <u>Student Rights and Responsibilities</u>

Please refer to the student rights and responsibilities in the Student Handbook.

9. <u>Special Needs</u>

If you are entitled to extra accommodation for any reason (such as disability), we will make every reasonable attempt to accommodate you. However, it is your responsibility to discuss this with the instructor at the beginning of the course.

10. <u>Attendance</u>

Students are expected to attend every lecture. Role will be taken at each class.   Missing two classes in a row without prior arrangement will result in the student being reported.

11. <u>Remarks</u>

Please refer to the course policies on exams and assignments for more details concerning exams, quizzes, projects and labs. The contents of this syllabus can be changed with advance notification; Pop quiz may be given at any time without advance announcement.

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Policies on Assignments

All assignments are due on the day indicated on them and must be turned in at the end or beginning of the class directly to myself. Late submissions without a substantial reason such as illness will generally be subject to penalties as follows:

Same day as due but after desired time	3%
Next day	10%
Two to four days	20%
Five days or more	50%

1. There are certain expectations concerning the format and substance of assignments. They will be assessed based on the following criteria:

   - Comprehensiveness. Elaborate as much as you can on the issues or topics raised. Avoid giving short, incomplete or incomprehensive answers.

   - Originality. When formulating your answers, use your creativity (your own words, statements, programs etc..) i.e. avoid paraphrasing the text book.

   - Correction. Needless to say, the ideal answer will be correct from a logical viewpoint.

   - Organization. The structure, organization and clarity of the material that you present (program or document) is also part of the criteria for assessment and will also be considered in grading. Only electronic document files are accepted - no handwriting please.

A major requirement of your programs is their coverage. No credit will be given for programs that cannot be compiled or that do not work on any of the test cases. Beyond this, a significant portion of the credit will be determined by how many of the test cases, and also which of them, your program handles correctly.

Plagiarism. While informal discussion is encouraged, students are expected to do their own work. Copying from each other or from published sources is prohibited, including "cut and paste" from websites. The penalty for copying on assignments is: A zero mark for that item of evaluation for the first time, and an F for the course for the second occurrence.

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Policies on Exams

Missed exams will not be covered with extra exams or make up exams. If you miss any exam due to unforeseen events, you must submit to the instructor a letter justifying your absence within 48 hours of the date of the exam. Grade 0 (zero) will be given if proper justification is not submitted.

Students are not allowed to do exams before or after the set date. You know the date of all your exams, therefore it is expected that you organize your trips around these dates.

Upon receiving your graded exam you should check for any discrepancies. Complaints will not be accepted after you leave the classroom or if the exam was originally written using a pencil. If a discrepancy is found the entire exam will be revised and not only the problem found. A revision of an exam may increase or lower your grade.

You always have the entire class time to answer the exam. You should not expect any extension to this time.

Students are expected to do their own exam. Copying from each other or from published sources is prohibited. The penalty for copying on tests, exams or quizzes is: A zero mark for that item of evaluation for the first time, and an F for the course for the second occurrence.

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