Computing Science 1140

An Introduction to Computing Science

95-96

Prerequisite : None
Corequisite : MA1130 or MA1140

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Course Content:

This course is intended to serve as the first computing course for students in the Bachelor of Computer Science program and Computer Systems Technology Diploma program. The student will become familiar with general computing concepts and terminology as well as developing proficiency in programming with the computer language known as PASCAL. Furthermore, students will be introduced to problem solving methods and techniques for algorithm development.

By the end of the semester students should have acquired a real appreciation (and insight) into the difficulties involved with defining instructions in a manner precise enough for the computer to execute.

This course will introduce most of the fundamental language features of PASCAL including: all of the control structures, procedures, functions, and simple data structures. Each student is expected to design, write, test, debug, and document several well-structured programs as solutions to given assignment problems.

The lab portion of the course will provide students with hands on programming experience with Borland's Turbo Pascal Version 7. Furthermore everyone is expected to gain a working knowledge of the DOS operating system for IBM PC Compatibles.

Laboratories :

Scheduled Lab facilities for this course are in the A wing computer labs (3rd floor). Labs will begin the week of Sept 11.

Text:

Theory : **Turbo Pascal: Theory and Practice of Good Programming**
Gary W. Martin

Lab : 4 HD 3.5" diskettes are required for the lab.

Turbo Pascal Version 7.0 (Software/Manuals) (optional)
Borland

Marking:

Project Assignments	15%
Lab Quizzes / Assignments	18%
Class Quizzes	12%
Midterm	20%
Final Exam	35%

Special Notes :

1) The Student must pass the **theory/concepts** portion of the course in order to obtain a passing grade for the term. Student must obtain 50% out of a possible 85 points, which includes all components except the project assignments.

2) No late project assignments will be accepted.

3) The student is responsible for adhering to **all** requirements as specified for each project assignment.

4) When necessary, lab time will be utilized for lecturing on specific Turbo Pascal features. The remainder will generally be used as "hands-on" time.