

**GRANDE PRAIRIE REGIONAL COLLEGE**

DEPARTMENT OF SCIENCE AND TECHNOLOGY  
COURSE OUTLINE  
Computing Science 1000  
Winter Session 1999

**TITLE: Computer Programming for Engineers****SCHEDULE:**

Monday, Wednesday, Friday 13:00 - 13:50

Lab AL1 Wednesday 15:00 - 16:20

Lab AL1 Wednesday 16:20 - 17:50

**INSTRUCTOR:** Franco Carlacci**OFFICE:** C422**TELEPHONE:** 539 2091**HOME PAGE:** <http://192.139.30.110/~franco/>**Course Content**

This course is intended as a first programming course for engineers. Students are expected to become familiar with basic computer concepts and terminology as well as to develop proficiency in programming with Turbo Pascal. By the end of the semester, students should have acquired a real appreciation (and insight) into the difficulties involved in 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 the control structures, static and dynamic data structures, procedures and functions). Each student is expected to design, write, test, debug and document several well-structured programs as solutions to given assignment problems. It is also expected that each student become familiar with certain features of PCs as well as the Borland Turbo Pascal Version 7.

**Laboratories:**

You will need at least two (2) 3.5" HD or DD diskettes.

Lab facilities for this course are located in the A wing. Other locations will be announced if they become available.

Scheduled labs will begin the week of January 11.

**Text:** *Structured Programming in Turbo Pascal* by L. Wayne Horn

**COMPOSITION OF THE COURSE GRADE:**

Theory Portion	75%
Final exam	35%
Term Test	20%
Quizzes	10%
Lab Quizzes	10%

Applied Portion	25%
Assignments	25%
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Total	100%

**Special Notes :**

1. The Student must obtain at least 37.5 out of 75 in the Theory portion of the course in order to obtain a passing grade for the term.
2. The penalty for late assignments is a 30% deduction for any assignment submitted up to one week late. Any material received after this time period will **not** be assigned a grade.
3. The student is responsible for adhering to **all** requirements as specified for each assignment.
4. Assignments are not all of equal weight. The grade value of each assignment will be included as part of the handout.
5. Generally the first half of each lab is reserved for lecturing on specific Turbo Pascal features. The remainder will be used as "hands-on" time.
6. If a student misses a particular class it is their responsibility to know the material covered and announcements made.
7. In order to avoid disruption, students are requested not to be late for classes
8. If you miss a quiz/exam you receive a mark of 0 unless you can provide a medical note or you give us prior notice.

*Last modified on January 4, 1999 by Franco Carlucci*