

# GRANDE PRAIRIE REGIONAL COLLEGE

SEP 14 2000

## DEPARTMENT OF COMPUTING, MATHEMATICS and STATISTICAL SCIENCES

### INTRODUCTION TO COMPUTING CS1010 3(3-0-3)

Instructors	: Laksmareddy Ganta	Office: J220
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	: Libero Ficocelli	Office: C424

This course provides an overview of computing science concepts for students with little or no programming background. We will explore computing topics from both an applications orientation as well as introducing the student to programming in a higher level language (Pascal).

The student will become familiar with general computing concepts and terminology. Topics include representation of data; machine architecture; operating system concepts; properties of algorithms and computational problems; syntax of a high-level procedural programming language; basic data types and control structures.

The lab portion of the course will provide students with hands on experience on several popular microcomputer software packages. An introduction to programming in a high-level language will be provided using Borland Pascal. Each student is expected to complete a variety of assignments in both the programming and applications areas.

#### **Laboratories :**

Scheduled Lab facilities for this course are in the A and J Wing computer labs. Labs will begin the week of Sept 11. Lab assignments are to be completed and submitted during the same lab period. Homework assignments are also to be submitted in your regular lab. Homework and Lab assignments are common to all three lecture sections and 5 lab sections.

There will be a total of 10 lab assignments, 6 of which will be programming related, with 4 others dealing with theory and concepts.

**TextBooks:**

- Concepts : Discovering Computers 2001  
Concepts for a Connected World  
Shelly Cashman Series: ISBN: 0789559374
- Programming : Pascal  
Understanding Programming and Problem Solving  
D. W. Nance

The programming text is optional, several copies are on reserve in the Library. Also, a variety of other Pascal programming books will be on reserve.

The homepage for this course will contain links to online Pascal tutorials and other resource materials.

**Marking:**

Assignments	35% (common to three sections)
Term Test	30%
Final Exam	35% (common to three sections)

**Special Notes :**

No late lab or project assignments will be accepted.

The student is responsible for adhering to all requirements as specified for each project/lab assignment.

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

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