WEST VIRGINIA UNIVERSITY AT PARKERSBURG
UNIFORM COURSE SYLLABUS

Name of Course   Computer Programming 1   Course No. CS 121

Department   Computer Science   Division Technology

I.   Course Objectives

   1. Understand what is involved in the programming process.

   2. Be able to determine the syntax of a language by its syntax diagram.

   3. Be able to utilize reference manuals to resolve technical problems.

   4. Understand and be able to utilize structured programming techniques in writing
       programs.

   5. Have an understanding of the following concepts:
       a. Loops and selection criteria of loops
       b. Subprograms (Procedures)
       c. Single and Multidimensional Arrays
       d. Data Types and Data Abstraction

   6. Be able to design and code programs using basic sorting and searching
       techniques.

II.   Topics to be Studied
         How will course objectives be met?

         Programming Basics
         Structured Programming
         Procedures and Functions
         Logic
         Selection Structures
         Repetition Structures
         Intro. to Files
         Control Break Logic
         Arrays
         Sorting
         Multidimensional Arrays
         Data Abstraction
         Record Data Types
         Intro. to Advanced Data Types

Uniform Course Syllabus CS 121

III.   Special Projects to be Included in Course
         Research papers   Reports
         Surveys   Annotated bibliographies
         Other

         1. Computer programming projects

IV.   Methods of Student Evaluation
         Tests (how many? how often? what type?)
         Quizzes
         Oral Presentations
         Written Papers
         Laboratory Activities
         Clinical Experiences

         1. 3 exams during the semester and I final exam
         2. Computer programming projects

V.   Assessment of Outcomes
         **What measurements will be used to demonstrate that outcomes have
         been reached? (Refers to class as a whole, not individual students.)**

         70% of the students who complete the course will attain
         an evaluation of C or better. This evaluation will reflect
         the student's mastery of the course objectives.

VI.   Other Information
         What additional information will help to clarify the course?

6/92

Reviewed 5/5/03