College of Micronesia – FSM
IS 220
Computer Science & Programming
Course Outline

A. General Objectives

The purpose of this course is to provide an introduction to Computer Science programming through the use of an object-oriented programming language (especially Visual Basic). It aims at presenting programming concepts, and then a series of hands-on, step-by-step activities to reinforce learning through practical applications in the business environment.

B. Specific Objectives

By the end of the course, the student will be able to:

1. Describe the basics of the programming languages – syntax and semantics, three types of basic instructions, flowcharting, Pseudocode and documentation basics.

2. Demonstrate an introductory knowledge of Computer Science and the historical development of programming languages , structured programming and object-oriented languages.

3. Describe the basic environment for creating forms and controls.

4. Create programs using the top-down approach.

5. Develop programs using loops, subroutines, and functions.

6. Demonstrate knowledge of debugging techniques and diagnostic methods for correcting errors.

C. Textbook:

An Introduction to Programming Using Visual Basic 6.0, 4th edition, David I. Schneider: Prentice Hall, 1999.

D. Methods of Instruction:

Lecture and demonstration will be combined with daily individual assignments and larger projects.

E. Course Content:

      I.   Introduction to programming environment.

      II.   Forms & controls

      III.   Structures, loops, subroutines/Functions, Built-in Functions

      IV.   Debugging

      V.   Advanced Controls

      VI.   Comprehensive individual projects

      VII.   Comprehensive group project

E. Evaluation:

Grades will be assigned based on the following percentage of total points received from assignments, quizzes, the mid-term, and final exam.

A………………………………………………………….90% to 100%
B………………………………………………………….80% to 90%
C………………………………………………………….70% to 80%
D………………………………………………………….60% to 70%
F………………………………………………………….59% and below

F. Attendance Policy:

The standard COM-FSM Attendance Policy will apply to this course.