SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY
SAULT STE MARIE, ON

COURSE OUTLINE

Course Title: System Prototyping and Presentation II

Code No.: CSD301 **Semester: Six**

Program: Computer Programmer/Analyst

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Date: January 4, 1999 Previous Outline Date: January 1998

Approved: K. DeRosario Jan. 11/99

Dean **Date**

Total Credits: Five **Prerequisite(s): CSD300**

Length of Course: 16 wks **Total Credit Hours: 64**

I. COURSE DESCRIPTION:

The following course is the final succession in a series of courses that gave the student the fundamentals when designing, developing and finally install a business application designed in the Visual Basic environment. The students work in a team setting sharing in the success of delivering the completed system. The students will ensure their systems are "Bullet Proof", testing for any and all possible situations the end user group may encounter, and having their systems rectify these problems. (The projects are part of a community value added component of the course, which allows the students to complete applications that will be implemented in the local business community).

The students will be expected to give periodic presentations on the evolution of their applications. The presentation teams will be prepared to answer the "what-if scenarios" which may be detected by the entire class and use them as recommendations for change.

The course will also focus on data arrays, control arrays, ListBoxes and ComboBoxes, as well as examine the built-in functions of the language, and concluded with a summation of Data Base applications that they have been working on in the prerequisite course.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course the student will demonstrate the ability to:

1) Manipulate One-Dimensional Arrays

Potential Elements of the Performance:

- Computing test averages
- Storing alphabetic data
- Finding largest/smallest elements in a list
- Rotating work schedule
- Store receipts problem

2) Manipulate Two-Dimensional Arrays

Potential Elements of the Performance:

- Computing the average of two tests
- Creating a Multi-Dimensional Budget

3) Declaring Array Variables

Potential Elements of the Performance:

- Dim, ReDim, and Static Statements
- Array ranges
- The array function
- Out-of-bounds errors

4) Create Control Arrays

Potential Elements of the Performance:

- Four methods of creating control arrays
- Experimenting with control arrays
- Examples of control arrays

5) Create ListBoxes and ComboBoxes

Potential Elements of the Performance:

- ListBox properties
- Adding, removing, and clearing items in ListBoxes
- Drive ListBoxes
- Directory ListBoxes
- File ListBoxes
- Three styles of ComboBoxes
- ComboBox properties
- ComboBox methods

6) Use the Built-In Functions

Potential Elements of the Performance:

- Financial functions
- Date-Time functions
- Math functions
- String functions

III. TOPICS:

1) **Manipulate One-Dimensional Arrays**
2) **Manipulate Two-Dimensional Arrays**
3) **Declaring Array Variables**
4) **Create Control Arrays**
5) **Create ListBoxes and ComboBoxes**
6) **Use the Built-In Functions**

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Applications Programming in Visual Basic 5, 2nd ed., Mark Simkin

Instructor Handouts

V. EVALUATION PROCESS/GRADING SYSTEM

The mark for this course will be arrived at as follows:

Project	60%
Test 1	20%
Presentations	20%
	100%

Grading Scheme:

A+ 90–100% (Outstanding)
A 80–89% (Excellent)
B 70–79% (Average)
C 60–69% (Satisfactory)
R (Repeat)
X (Incomplete)

VI. SPECIAL NOTES:

- Students will receive a grade of zero for late assignments unless prior permission is granted from the instructor.
- Students are expected to attend classes on a regular bases and treat their peers and instructors in a business like manner.
- Students are expected to inform the instructor via phone or e-mail if they are unable to attend class, 2% penalty for each infraction.
- Students missing a test will receive a grade of zero unless prior permission is granted from the instructor.

VII. PRIOR LEARNING ASSESSMENT

Students who wish to apply for advanced credit in the course should consult the instructor.