Course Title: Beginning Programming II

Course Description: Continue your survey of beginning programming languages. This course introduces basic programming using HTML and Java. Discover commonalities in programming logic and become familiar with each language from coding and compiling to running and executing.

Course Prerequisite(s): Beginning Programming I

Course Objectives:
1. Define logic
2. Identify common programming languages and their best uses
3. Code and run simple programs using variables, mathematical operators, and if statements.
4. Add loops and functions, arrays, vectors, and applets in appropriate builds.

Textbook(s): None

Lesson Plan – by week or session
Session 1: Unit 4: Introduction to Web Programming with HTML and JavaScript
Lessons 1-2
Quick HTML Know How
HTML Organization Techniques
Session 2: Lessons 3-5
HTML Power Techniques
What is JavaScript
Using Images with JavaScript
Session 3: Unit 5: Introduction to Java Lessons 1-2
Integrating Applets into Web Pages
Introduction to Java Programming
Session 4: Lesson 3-4
Data Types and Strings
Math Operations
Session 5: Lesson 5-6
I/O and Exception Handling
Decision Making in Programs
Session 6: Lesson 6-7
Decision Making in Programs cont’d
Loops
Session 7: Lesson 8-9
Data Files Basics
Developing and Inheriting Classes
Session 8:  Lesson 10-11
          Arrays and Vectors
          Applets
Session 9:  Review of Visual Basic and C++
Session 10: Review of HTML/JavaScript and Java