Conneaut School District – Business Education Curriculum Map

Course: Computer Programming 1   **Grade:** Grades 10 - 12 Elective   **Time:** 90 days / 90 minutes ½ year

Time-Line	CONTENT	STANDARDS	SKILLS	ASSESSMENT
8 days	**VB SCRIPTING** • Writing programs in VB scripting	1.1C 1.2 2.4A 2.5A	• Learning VB scripting • Practice problems • Writing program in VB Scripting	• VB scripting problems • Written test
3 days	**INTRODUCTION TO VISUAL BASIC 2008 PROGRAMMING** • Chapter 1	1.1C 1.2 2.2A 3.7C	• Introduction & Basic Program Operation: Input/Output Operation, Basic Arithmetic Operations, Logical Operation • Visual Basic 2008 & Visual Studio 2008 • Programming Languages: Visual Basic, C++, Visual C# .NET Framework 3.5: .NET Class Library, ADO.NET 3.5, ASP.NET 3.5, MSIL, CLR • Types of Visual Basic 2008 Applications • Summary	• Knowledge Check • Written Test
1 wk	**Program and Graphical User Interface Design** • Chapter 2	1.1C 1.2 2.2A 2.4A 2.5A	• Using Visual Studio 2008: Open, view, tools, format, options, functional use of program • Program Development Life Cycle: Analyze program requirements & Design User Interface • Sample Program • Guided Program Development • Summary • Learn it Online	• Knowledge Check • Debugging Exercises • Program Analysis Day • Case Programming Assignments • Written Tests

Duration	Topic	Standards	Content	Assessment
8 days	**PROGRAM DESIGN AND CODING** • Chapter 3	1.1C 1.2 1.5C 2.2A 2.4A 2.5A	• Fine-Tune the User Interface • Visual Basic Program Coding • Phase 3 – Design the Program Processing Objects • Phase 4 – Code the Program • Guided Program Development • Code Listing • Summary • Learn It Online	• Knowledge Check • Debugging Exercises • Program Analysis • Case Programming Assignments • Written Test
9 days	**VARIABLE AND ARITHMETIC OPERATIONS** • Chapter 4	1.1C 1.2 1.5C 2.01A 2.2A 2.4A 2.5A	• User Interface: Textbox & Label Objects, Buttons, and Code Entry • Intro to Data Entry and Data Types: Data Types and Variables • Arithmetic Operations • Program Design: Event Planning Document, Code the Program • Guided Program Development • Code Listing • Summary • Learn it Online	• Knowledge Check • Debugging Exercises • Program Analysis • Case Programming Assignments • Written Tests
2 wks	**Mobile Applications Using Decision** • Chapter 5	1.1C 1.2 1.5C 2.2A 2.4A 2.5A	• Chapter Project • Pervasive Devices • Creating A Smart Device Application: • Making Decisions with Conditional Statements • Program Designs • Guided Program Development • Code Listing • Summary • Learn it Online	• Knowledge Check • Debugging Exercises • Program Analysis • Case Programming Assignments • Written Tests

Time	Chapter / Topic	Standards	Content	Assessment
2 wks	**Mobile Applications Using Decision** • Chapter 6	1.1C 1.2 1.5C 2.2A 2.4A 2.5A	• User Interface Design • Using Loops to Perform Repetitive Tasks • Using A Data tip with Breakpoints • Publishing an Application with Click Once Deployment • Program Design • Guided Program Development • Code Listing • Summary • Learn it Online	• Knowledge Check • Debugging Exercises • Program Analysis • Case Programming Assignments
2 wks	**Creating Web Applications** • Chapter 7	1.1C 1.2 1.5C 2.2A 2.4A 2.5A	• Creating a Web Application • Designing the Web Page • Using String Manipulations • Properties and Procedures in the String Class • Guided Program Development • Code Listing • Summary • Learn it Online	• Knowledge Check • Debugging Exercises • Program Analysis • Case Programming Assignments • Written Test
2 wks	**Using Procedures and Exception Handling** • Chapter 8	1.1C 1.2 1.5C 2.2A 2.4A 2.5A	• Chapter Project • Procedures • Exceptional Handling • Program Design • Summary • Learn it Online	• Knowledge Check • Debugging Exercises • Program Analysis • Case Programming Assignments • Written Test
3 wks	**Final Project**	1.6D 1.5C 1.8B 2.2A 2.4A 2.5A	• Analyze and Design • Plan & Develop Program • Write Code • Test Code Create • Presentations	• Present Final Projects • Turn in Final Project Paperwork