

Introduction to Programming Curriculum Map

<u>Integrated Development Environment</u> Review toolbars, menus, layout Windows basics and controls Create a simple application	August / January
<u>Programming Languages</u> What is a Programming Language? History of Programming Languages Program Development Life Cycle Problem-solving / Algorithms Flowcharts Introduction to Control Structures Sample program on paper	September / February
<u>Variables and Data Types</u> Variables Numbers, Decimals, Strings , Dates Operators, Order of Operations	September / February
<u>Decision statements</u> If, Nested If statements Case Statements	September - November / February - April
<u>Loops</u> For...next, For each...next Do while, Do until	September – November / February - April
<u>Windows Applications</u> Forms, multiple Forms Buttons, Text Boxes, List boxes Message boxes Radio Buttons Drop down lists Menus	October – November / March - April
<u>Data Structures</u> Arrays Lists	November / April
<u>Object Oriented Programming Introduction</u> Encapsulation Methods and Properties Events Visibility Inheritance Classes and controls	December / May
<u>Custom Graphics</u> Raster vs Vector graphics Images	December / May