**Introduction to Programming Using Python**

We provide an introduction to computer programming.  The student needs no prior computer programming experience.  Basic computer experience is assumed.  The popular Python programming language is used as an example.  Included in this class are many simple but realistic examples in Python which the student views, runs, modifies and runs again.  This course emphasizes student participation - **learn by doing**.  During this course the student learns to use IDLE, a simple but powerful Python programming development tool.

Programming areas covered in this course include the following:

* **program structure / layout:**comments, indentation, import
* **calculation / comparisons**: +, -, \*,  \*\*, /, //, %, (), +=, \*=
* **variables**
* **control flow**:
  + if, else, elif
  + loops: while, for
  + functions
  + try, except
* **data structures**: strings, lists, classes
* **additional topics**: graphics(turtle), files, errors