Meteorology 227 - Fall 2015 – Exam #3 Review

**General**
- Differences between Python and FORTRAN (Interpreted/Compiled).
- Meaning of interpreted and complied.
- Pros and cons of interpreted and compiled languages.
- How to import modules and use aliases to reference them.
- Importing individual functions from modules.

**Data Types**
- Meaning of dynamic typing.
- General syntax (comments, continuation, etc.).
- Identifier restrictions.
- Allowed Python data types and their use.

**Operators**
- Numerical operators.
- Logical expression operators.
- Augmented Assignment.
- Basic Python intrinsic functions.

**Objects and Object Oriented Programming**
- Know the definition of: Class, Object, Instance, Attribute, Method

**Lists, Tuples, and Numpy Arrays**
- Difference between them.
- Use and manipulation.
- Basic use of functions and methods that act on them.
- Use of Ranges and the range() function.
- Use of Numpy zeros and Numpy Ones arrays.
- Use of Dictionaries and key access.
- Deep and shallow copies.

**Program Control**
- Interactive input.
- Selective execution in Python (use of if/elseif statements).
- Repetitive execution in Python (for and while loops).

**Good Luck!**