

Meteorology 2270 - Fall 2025 – Exam #3 Review

General

- Differences between Python and FORTRAN (Interpreted/Compiled).
- Meaning of interpreted and compiled.
- Pros and cons of interpreted and compiled languages.
- How to import modules and use aliases to reference them.

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.

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.
- 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!