Introduction to Computer Programming
CSCI-UA 2

Data Types and Variables
Built-In Functions
Multiple Assignment

Assigning more than one variable at a time is possible

```python
a, b, c = 'foo', 'bar', 'baz'
```

Swapping variable values

```python
x, y, = y, x
```
**Built-In Functions**

A function is a reusable chunk of code

We’ve already been using functions

- `print( )`
- `int( )`
- `type( )`

Function name and arguments

Parentheses mean “execute this function”

Some functions take no input
**Modules**

A collection of related functions

To use a module, it must be imported:

```
import module
```

Then you can use any of the functions in that module:

```
module.function()
```

You can also import all a module’s functions at once:

```
from module import *
```

This allows you to call the function without appending the module
Math Module
Contains many useful mathematical functions

Data Types and Variables
Built-In Functions

Square root
Pi
Exponentiation
Degree conversion
Tangents
...
Getting Help

Python has lots of documentation built in.

Functions and modules usually come with brief explanations.

To list functions in a module:
```python
dir(module)
```

To see all of Python’s built-in functions:
```python
dir(__builtins__)
```

To get help with a specific function:
```python
help(function)
```

Python’s general help utility:
```python
help()
```