

CSc 110 Midterm Cheat Sheet

```
def name (parameters) :
    statement(s)
    ...
    return expression
```

```
variable = type (input (prompt))
```

```
for name in range (start, stop + 1) :
    statement
    statement
    ...
    statement
```

```
if (test) :
    statement(s)
elif (test) :
    statement(s)
else:
    statement(s)
```

Math class

Function name	Description
ceil (<i>value</i>)	rounds up
floor (<i>value</i>)	rounds down
log (<i>value</i> , <i>base</i>)	logarithm
sqrt (<i>value</i>)	square root
sinh (<i>value</i>) cosh (<i>value</i>) tanh (<i>value</i>)	sine/cosine/tangent of an angle in radians
degrees (<i>value</i>) radians (<i>value</i>)	convert degrees to radians and back

Constant	Description
e	2.7182818...
pi	3.1415926...

Other math functions:

Function name	Description
abs (<i>value</i>)	absolute value
min (<i>value1</i> , <i>value2</i>)	smaller of two values
max (<i>value1</i> , <i>value2</i>)	larger of two values
round (<i>value</i>)	nearest whole number

String functions

Function	Description
find (str)	index where the start of the given string appears in this string (-1 if not found)
substring (index1 , index2) or substring (index1)	the characters in this string from index1 (inclusive) to index2 (exclusive); if index2 is omitted, grabs till end of string
lower ()	a new string with all lowercase letters
upper ()	a new string with all uppercase letters

