

ITEC/SENG - 424: Python Programming

Outline for mid-semester examination

1. Basics

- Overview of Python data types, constants and variables
- Variable naming rules
- Python reserved words
- Numeric expressions and operator precedence

2. Conditional execution:

- Comparison operators and boolean expressions
- Rules for indentation
- if, elif and else structures
- Exception handling: try / except structure

3. Working with strings:

- String concatenation and repetition
- Indexing and slicing of strings
- String formatting
- String methods

4. Loops and iterations

- while loop
- for loop
- break and continue statements

5. Working with lists

- Creating a list
- List concatenation and repetition
- Indexing and slicing in a list
- Using in and not in operators with lists
- Using the range() function
- List methods: append(), insert(), pop(), sort(), etc.

6. Recall and understand the usage of the following built-in functions:

- print() and input()
- type() and type-conversion functions, such as, int(), float(), str(), etc.
- len(), min(), max(), sum()
- dir()