CSE 102 List of Topics

Fall 2019

1. Propositional Logic
   a. Logical Operations
   b. Compound Propositions
   c. Conditional Statements
   d. Logical Equivalence
2. Hardware, Software, and Languages
   a. Machine Language
   b. Assembly Language
   c. High-level Language
3. Intro to Spreadsheets
4. Introduction to Python
5. Variables and Expressions in Python
6. Types in Python
   a. Strings
   b. Type Conversions
7. Branching
   a. If-Else
   b. Equality and Relational Operators
   c. Boolean Operators
   d. Membership and Identity Operators
   e. Order of Evaluation
   f. Code Blocks and Indentation
   g. Conditional Expressions
8. Strings and Loops
   a. String Slicing
   b. Advanced String Formatting
   c. String Methods
   d. While Loops
   e. For Loops
   f. Nested Loops
   g. enumerate()
9. Lists and Dictionaries
10. Functions
11. Files and Exceptions
    a. Reading Files
    b. Writing Files
12. Data Analysis with Pandas
13. Integration of Pandas with Excel
14. Searching and Sorting