

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