

# Computer Science: CIT 120: Computational Thinking

Demonstrate an understanding of elementary logic, truth tables, and Boolean Algebra. [CIT120.1](#)

**a** Create a truth table based on Boolean Algebra [CIT120.1A](#)

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Illustrate the flow of a program. [CIT120.2](#)

**a** Explain the implications of file processing. [CIT120.2A](#)

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Describe the steps addressed in the design of a program to solve the stated problem. [CIT120.3](#)

**3** Describe the steps addressed in the design of a program to solve the stated problem. [CIT120.3](#)

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Describe the principles of object-oriented programming. [CIT120.5](#)

**4** Describe the principles of object-oriented programming. [CIT120.5](#)

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Analyze the binary representation of data. [CIT120.6](#)

**5** Analyze the binary representation of data. [CIT120.6](#)

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Develop algorithms with increasing degree of complexity using structured programming techniques such as: sequence, selection, and repetition. [CIT120.6](#)

**6** Develop algorithms with increasing degree of complexity using structured programming techniques such as: sequence, selection, and repetition. [CIT120.6](#)

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Use fundamental data types and data structures [CIT120.7](#)

**a** Be able to use: integers, reals, characters, strings, Booleans, one- and two-dimensional arrays.

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**Demonstrate programming style best practices.** CIT120.8

**8 Demonstrate programming style best practices.** CIT120.8

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**Illustrate concepts using one or more programming language(s).** CIT120.9

**a Use modular programming.** CIT120.9A