

# NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

## Computer Science and Information Technology Education

Grade: Grade 9 - 12

Course: Computer Science I **New**

**NCCTE.2020.BP41** - Computer Science I

**NCCTE.2020.BP41.01.00** - Understand the internet.

**NCCTE.2020.BP41.01.01** - Representing and Transmitting Info

**NCCTE.2020.BP41.01.02** - Inventing the Internet

**NCCTE.2020.BP41.02.00** - Understand Digital information.

**NCCTE.2020.BP41.02.01** - Bytes and file sized

**NCCTE.2020.BP41.02.02** - Text Compression

**NCCTE.2020.BP41.02.03** - Encoding B&W Images

**NCCTE.2020.BP41.02.04** - Encoding Color Images

**NCCTE.2020.BP41.02.05** - Lossy Compression and File Forms

**NCCTE.2020.BP41.02.06** - Rapid Research - Format Showdown

**NCCTE.2020.BP41.03.00** - Understand Intro to Programming and Algorithms.

**NCCTE.2020.BP41.03.01** - The Need for Programming Languages

**NCCTE.2020.BP41.03.02** - The Need for Algorithms

**NCCTE.2020.BP41.03.03** - Creativity in Algorithms

**NCCTE.2020.BP41.03.04** - Using Simple Commands

**NCCTE.2020.BP41.03.05** - Creating Functions

**NCCTE.2020.BP41.03.06** - Functions and top-Down Design

**NCCTE.2020.BP41.03.07** - APIs and Function Parameters

**NCCTE.2020.BP41.03.08** - Creating Functions with Parameters

**NCCTE.2020.BP41.03.09** - Looping and Random Numbers

**NCCTE.2020.BP41.03.10** - Practice PT - Design a Digital Scene

**NCCTE.2020.BP41.04.00** - Understand Big Data and Privacy.

**NCCTE.2020.BP41.04.01** - What is Big Data

**NCCTE.2020.BP41.04.02** - Finding Trends with Visualizations

**NCCTE.2020.BP41.04.03** - Check Your Assumptions

**NCCTE.2020.BP41.04.04** - Rapid Research - Data Innovations

**NCCTE.2020.BP41.04.05** - Identifying People with Data

**NCCTE.2020.BP41.05.00** - Understand Building Apps.

**NCCTE.2020.BP41.05.01** - Event-Driven Programming

**NCCTE.2020.BP41.05.02** - Programming with Data Structures

**NCCTE.2020.BP41.06.00** - Understand Data Tools.

**NCCTE.2020.BP41.06.01** - Intro to Data

**NCCTE.2020.BP41.06.02** - Good and Bad Data Visualizations

**NCCTE.2020.BP41.06.03** - Making Data Visualizations



## **NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS**

**NCCTE.2020.BP41.06.04** - Discover a Data Story

**NCCTE.2020.BP41.06.05** - Cleaning Data

**NCCTE.2020.BP41.06.06** - Creating Summary Tables

