

NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

Computer Science and Information Technology Education

Grade: Grade 9 - 12

Course: App Development with Swift, Level 1 **New**

NCCTE.2020.BL53 - App Development with Swift - Level 1

NCCTE.2020.BL53.01.00 - Understand App Development with Swift (Unit 1).

NCCTE.2020.BL53.01.01 - Demonstrate the basics of data, operators, and control flow in Swift.

NCCTE.2020.BL53.01.02 - Explain documentation, debugging, Xcode, building and running an app, and the Interface Builder.

NCCTE.2020.BL53.01.03 - Construct a simple flashlight app, Light, a guided project.

NCCTE.2020.BL53.02.00 - Understand the UIKit (Unit 2)

NCCTE.2020.BL53.02.01 - Explain Swift strings, functions, structures, collections, and loops.

NCCTE.2020.BL53.02.02 - Demonstrate the UIKit and how to display data using Auto Layout and stack views.

NCCTE.2020.BL53.02.03 - Build a word-guessing game app in the guided project, Apple Pie.

NCCTE.2020.BL53.03.00 - Understand navigation and workflows (Unit 3).

NCCTE.2020.BL53.03.01 - Outline simple workflows and navigation hierarchies using navigation controllers, tab bar controllers, and segue.

NCCTE.2020.BL53.03.02 - Explain optionals and enumerations.

NCCTE.2020.BL53.03.03 - guided project, Personality Quiz, a personalized survey that reveals a fun response to the user

NCCTE.2020.BL53.04.00 - Understand Tables and Persistence (Unit 4).

NCCTE.2020.BL53.04.01 - Students find out about scroll views, table views, and building complex input screens.

NCCTE.2020.BL53.04.02 - Explore how to save data, share data to other apps, and work with images in the user's photo library.

NCCTE.2020.BL53.04.03 - Apply new skills in the guided project, List, a task-tracking app that allows the user to add, edit, and delete items in a familiar tablebased interface.

NCCTE.2020.BL53.05.00 - Understand how to work with the web.

NCCTE.2020.BL53.05.01 - Explain animations, concurrency, and working with the web.

NCCTE.2020.BL53.05.02 - Apply new skills in guided project, Restaurant, a customizable menu app that displays the available dishes from a restaurant and allows the user to submit an order.

NCCTE.2020.BL53.06.00 - Create prototype and plan project for new app.

NCCTE.2020.BL53.06.01 - Design, prototype, and architect new and unique app projects.

