

FUNDAMENTALS OF COMPUTING
COURSE CODES: 5023
ADDITIONAL MATERIALS AND RESOURCES

Required Equipment

One Desktop Computer per Student with Internet Access

Required Courseware

[CS Discoveries](#) (Code.org)

This is the approved courseware used for training teachers in SC to teach Fundamentals of Computing. The course standards are aligned to the curriculum presented in the units of this course.

Supplemental Courseware

[South Carolina Fundamentals of Computing](#) (CodeHS)

[Exploring Computer Science](#)

[CS Unplugged](#)

[NICERC Cyber Innovation](#)

[EdHesive](#)

[Codecademy](#)

[Khan Academy](#)

Industry Certifications

[IC3 Digital Literacy Certification](#) (Certiport)

Job Ready Assessments

[WIN Essential Soft Skills](#)

[WIN Digital Literacy](#)

Career & Technical Student Organization Competitions

[Future Business Leaders of America](#) (FBLA)

Middle School Events

Exploring Computer Science

Exploring Technology

Multimedia & Website Development

Video Game Challenge

High School Events

Computer Problem Solving

Data Analysis (?)

Introduction to Information Technology (9th-10th Grade Event)

[Technology Student Association](#) (TSA)

Middle School Events

Coding

Data Science and Analytics

Foundations of Information Technology

Video Game Design

Website Design

Resources for Specific Standards/Indicators

Web Design

Text Editor

Notepad (included with Windows OS)

TextEdit (included with macOS)

[Notepad++](#) (install required)

[Brackets](#) (install required)

[Pulsar](#) (install required)

[Sublime Text](#) (install required)

[Visual Studio Code](#) (install required)

[AWS Cloud9](#) (online)

[WebLab](#) - Code.org (online)

Playgrounds/Sandboxes (online)

[CodePen](#)

[Fiddle](#)

[Dabblet](#)

[CSS Deck](#)

[Live Weave](#)

Programming

Block-Based

[Scratch](#) (online)

[Snap](#)

[Alice](#)

[Code Studio](#) Game Lab (online)

[Microsoft MakeCode](#)

Mobile Apps

[App Inventor](#) (online)

[Thunkable](#)

[Swift](#)

[App Lab](#) Code.org (online)

Physical Computing

BirdBrain Technologies

[Hummingbird Robot](#)

[Finch Robot](#)

[LEGO Mindstorms](#) (download)

[MakeBlock](#)

[Parallax Board of Education](#)

[VEX](#) (download)

[Edison](#)

[Micro:Bits](#) (online)

[Circuit Playground](#) (online)

[Sphero](#) (app download PC, Mac, Chromebook, Android, Apple)