

EXPLORING COMPUTER SCIENCE
NEW NAME: FUNDAMENTALS OF COMPUTING (2019-20)
COURSE CODE: 5023
ADDITIONAL MATERIALS AND RESOURCES

[Textbook and Resources](#)

[Common Career Technical Core Standards](#)

CTSO's:

[Future Business Leaders of America](#)

[SC Future Business Leaders of America](#)

[SkillsUSA](#)

[BPA](#)

[TSA](#)

Non CTSO's:

[National Technical Honor Society](#)

Assessments/Certifications:

[National Occupational Competency Testing Institute \(NOCTI\)](#)

RECOMMENDED PROGRAMMING PLATFORM

BLOCK BASED APPS

Scratch – <http://scratch.mit.edu>

Snap – <http://snap.berkeley.edu>

Alice – <http://www.alice.org/>

Code Studio – <http://studio.code.org>

Microsoft MakeCode – <https://makecode.com>

MOBILE APPS (recommended 1 tablet per 2 students)

App Inventor – <http://ai2.appinventor.mit.edu/explore>

Thunkable – <http://thunkable.com>

Swift – <http://apple.com/everyone-can-code>

ROBOTICS (recommended 1 robot per 2 students)

BirdBrain Technologies Hummingbird Robot – <http://www.hummingbirdkit.com/>

LEGO Mindstorms NXT, EV3 or newer – <http://mindstorms.lego.com/>

MakeBlock mBot or Ranger – <http://www.makeblock.cc/mbot/>

Parallax Board of Education – <https://www.parallax.com/product/28850>

VEX – <http://www.vexrobotics.com/vexiq?ref=hometile>

Edison – <http://meet Edison.com>

BirdBrain Technologies Finch Robot – <http://finchrobot.com>

RECOMMENDED WEB DESIGN RESOURCES

NotePad (PC) or TextEdit (Mac)

Notepad++ – <https://notepad-plus-plus.org/>

Sublime Text – <http://sublimetext.com>

Brackets – <http://brackets.io>

CodePen – <http://codepen.io>

W3Schools – <http://www.w3schools.com/>

Pencil Code – <http://pencilcode.net>

Code.org Web Lab – <http://code.org/educate/weblab>

INSTRUCTIONAL RESOURCES

Exploring Computer Science – <http://www.exploringcs.org/curriculum>

Code.org CS Discoveries – <http://code.org/educate/csd>

Code.org CS Principles – <http://code.org/educate/esp> (also used for AP CSP)

CS Unplugged – <http://csunplugged.org>

NICERC Cyber Innovation – <http://nicerc.org/curricula/>

CodeHS – <https://codehs.com>

EdHesive – <http://edhesive.com>

Codecademy – <http://codecademy.com>

Khan Academy – <http://khanacademy.org>

Lynda – <https://lynda.com> (subscription)