

DISCOVERING COMPUTER SCIENCE
COURSE CODE: 5061
ADDITIONAL MATERIALS AND RESOURCES

INSTRUCTIONAL RESOURCES:

Code.org CS Discoveries – <http://code.org/educate/csd>
Exploring Computer Science – <http://www.exploringcs.org/curriculum>
myCS – www.csinsf.org
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)

NATIONAL STANDARDS:

K-12 CS Framework – www.k12cs.org
CSTA Standards – www.csteachers.org
[Common Career Technical Core Standards](http://www.csteachers.org)

CTSO's:

[Future Business Leaders of America](http://www.futurebusinessleaders.com)
[SC Future Business Leaders of America](http://www.scfuturebusinessleaders.com)
[SkillsUSA](http://www.skillsusa.com)
[BPA](http://www.bpa.com)
[TSA](http://www.tsa.com)

Non CTSO's:

[National Technical Honor Society](http://www.nationaltechnicalhonor.org)

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)

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

AdaFruit Circuit Playground – www.adafruit.com

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

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

micro:bit – www.microbit.org

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

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

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>