

1ST MAKERSPACE

Fall Schedule 2016

Brownsburg Library Programs

3D Printer Certification Course

Heard about 3D printers but never had access to one? No worries, become certified to run Brownsburg Public Library's 3D Printers! Participants will learn how to safely operate and maintain these 3D printers, how to print a 3D model (STL file) and how to master basic concepts of 3D printing using 1st Maker Space STEAM Engine 3D printers. Participants will walk away with a certification card that allows full access to the library's 3D printers. Course includes demonstrations and guided practice activities.

Software and Services Used: Repetier-Host, Slic3r, Netfabb Basic, Thingiverse

Min 5/Max 10

Dates: Third Saturday of the month; 8/20, 9/17, 10/15, 11/19, 12/17

Time: 10am-4pm (lunch break from 12-12:30; bring a lunch or grab a bite)

Age: 12 and over, adults welcome

Cost: \$40

Prerequisites: none

Register at www.1stmakerspace.com

Intro to 3D Printing CAD Design: TinkerCAD

Learn how to design your own 3D printed objects from an expert designer! Participants will learn & apply the engineering and design process as they develop an understanding of 3D Printing and the ability to create printable 3D models using TinkerCAD. Each participant will learn how to design and print their own object by the end of the course.

Min 5/Max 10

Date: Saturday, September 24 & Saturday, December 3

Time: 12:00-4:00pm

Age: 12 years and over, adults welcome

Cost: \$40

Prerequisites: Have already earned a 3D printer certification card from the Brownsburg Public Library Certification Course.

Register at www.1stmakerspace.com

Girls-Only STEAM Makers Lock-In

Be ready to investigate science, tinker with new technology, execute engineering challenges, create art and mix in some math in this girl's only after hours' event! Pizza, drinks and snacks provided.

Min 15/Max 30

Date: September 9, 2016

Time: 6:30-10:30pm

Age: 7-12 years

Cost: \$45

Register at www.1stmakerspace.com

Continued Next Page

LEARN TO MAKE...MAKE TO LEARN [1STMAKERSPACE.COM](http://1stmakerspace.com)

1010 East Michigan Street - Indianapolis, Indiana - 46202 - info@1stmakerspace.com - (317) 339-5001

Arsenal Tech Makerspace

Home Mechanics – “Home Mech”: Painting, Plumbing, Wiring & More!

Learn how to paint, hang pictures, caulk a tub, install a faucet, clean a drain, replace a switch and repair a lamp! Find out about how toilets work and what to do when they don't. Learn how to fix a leaky hose, a squeaky door or a drafty window. Discover the difference between a wire nut, a hex nut and a nut driver. Learn who invented the Phillips screwdriver, the Allen wrench and the Monkey wrench!

Over the series of four sessions, participants will work with hand tools and power tools, wood, wire, wall board, plastic, paint, glue, caulking, sand paper, wire and electrical equipment. They'll make things and learn how to solve common household maintenance problems.

Everyone who owns a home needs to know how to do home maintenance. This entertaining and informative series will help you discover your inner Home Maintenance Ninja!

Min 5/Max 20

Date: Third Saturday of the month; 8/20, 9/17, 10/15, 11/19

Time: 9:00am-11:00am

Age: youth (12+), adults & families

Cost: \$30 per session (kid free w/registered adult); sign up for all 4 sessions get one free

Location: Arsenal Tech High School Makerspace, Morgan Hall

Parking:

Register at www.1stmakerspace.com

Shortridge Maker Space

3D Printer Open Making

Ever wanted to use a 3D printer but don't own or have access to one? Join us for 3D Printer Open Making to 3D print your own projects during the program. It doesn't matter if you know how to design or how a 3D printer works, staff will help all skill levels to 3D print projects. With 3D Printer Open Making, we hope to ignite the maker within! To get a head start, check out www.thingiverse.com for 3D printable projects. *Bring your own laptop and/or flash drive to save your design work.

Min 5/Max 10

Date: Second Saturday of the month; 8/13, 9/10, 10/8, 11/12, 12/10

Time: 9am-1pm

Age: 10 years old and above; adults welcome

Cost: \$30

Location: Shortridge High School makerspace (room 210)

Parking: north side parking lot or street parking; entrance on the north side

Prerequisites: none

Register at www.1stmakerspace.com



1STMAKERSPACE

Fall Schedule 2016 (Continued)

Brownsburg Library Programs

LittleBits workshop

Science and engineering meets arts and crafts as youth prototype designs and create new inventions using littleBits, electronic components that magnetically snap together. We'll introduce the littleBits monthly challenge to spark fresh ideas!

Software and Services Used: Repetier-Host, Slic3r, Netfabb Basic,

Thingiverse

Min 5/Max 15

Dates: Wednesday, October 19

Time: 9:30-11:30am

Age: 8-12 years

Cost: \$20

Register at www.1stmakerspace.com

Squishy Circuits

Explore simple circuits and investigate electricity as you build and make play dough creations that light up!

Min 5/Max 15

Date: Friday, October 21

Time: 9:30-11:30am

Age: 5-8 years

Cost: \$20

Register at www.1stmakerspace.com

LEARN TO MAKE...MAKE TO LEARN [1STMAKERSPACE.COM](http://1stmakerspace.com)

1010 East Michigan Street - Indianapolis, Indiana - 46202 - info@1stmakerspace.com - (317) 339-5001