

firstByte

What is firstByte?

firstByte Workshops are intended to be hands-on crash courses in a variety of projects, languages, and technologies. We host workshops on UofA's campus and in the local Tucson community all year round. Mostly our Workshops are taught by student volunteers, but we're constantly looking for others who share our understanding of the importance of a technical education.

About our Hack Arizona Workshops

Our main goal is to help students succeed in building awesome projects throughout the weekend.

We're doing this by providing a variety of introductory courses, as well as other workshops, that are designed as ways to expand technical skill sets in a practical way.

Difficulty levels:

- Our introductory courses are intended to be designed for students either with:
 - No programming or technical experience whatsoever
 - No experience in that particular domain (but some technical experience)
- Our other courses can be designed for students with skill levels ranging from CS 100 to upper division, or even graduate level experience. We have attendees of all levels at our awesome event, and want to ensure that everyone has an opportunity to learn something relevant and interesting.

Workshop Scope and Starter Projects:

In typical hackathon fashion, these workshops are designed to encourage and help students complete projects in areas they're unfamiliar with, in a very short time frame.

Starter projects are okay, but they shouldn't be more complicated or difficult than the workshop content to be learned. This means that you should be able to complete a full project (a website, a basic app, etc) start to finish from what you learn in each workshop.



Want to help educate the next generation of technologists?

We'd love for you to teach your own workshop!

To teach a workshop, [please fill out this form](#).

By filling out our form, we are gathering the following information, and we will hopefully be able to fit your workshop into our busy hackathon schedule.

Course title:

Course description:

Required experience:

Duration:

Description of what they're going to be completing:

Software/system requirements:

Would you need extra volunteers?

If there were an ideal time for your workshop, what would it be?

An example of what this information could look like:

Course title: Introduction to web development

Course description: Teaching students how to build a basic website in HTML and CSS.

Required experience: No programming or technical experience required!

Beginners welcome!

Duration: 1.5 - 2 hours.

Description of the project: This workshop will take students through the basics of HTML and CSS, and students will complete a sample project that includes creating an artist's portfolio site.

Software/system req: Just a computer and your favorite text editor! (This would be drastically different for things like microcontrollers, etc).

Extra volunteers: No, we're bring our own team of 3-4 helpers to ensure students are successful!

Other

We are also searching for workshops in non-programming, but other technical related disciplines, such as graphic and logo design, if anyone is interested in leading these. Please note - We are unable to fully ensure a time due to the complexity and nature of this event until our workshop schedule is finalized, but we will certainly do our best.

Currently planned firstByte Workshops at Hack Arizona 2018

Introduction to Web Development

About - This is intended to be for students with no programming experience whatsoever, and help them begin to learn the basics of HTML and CSS.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

Introduction to Making VR games

About - This is intended for students with no Unity or VR experience, and help them begin to understand how VR development works.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

Introduction to JavaScript

About - This is intended for students with experience in HTML and CSS, but haven't touched JS yet.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

Ruby on Rails

About - This is intended for students experience in HTML, CSS, and JS, but no experience with Ruby on Rails.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

Introduction to Developing for iOS in Swift

About - This is intended for students with prior programming experience, but not in Swift or iOS.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

Advanced HTML and CSS

About - This is intended for students with advanced HTML and CSS experience. Will be covering some lesser known interesting features.

Teacher - Still looking for a teacher.

Helpers - Could use helpers.

Introduction to Functional Programming in Scala

About - This is intended for students with no prior experience in Scala. Overview of functional programming.

Teacher - Already have a professional instructor lead.

Helpers - Could use helpers.

Bootstrap

About - This is intended for students with experience in web development (Basic HTML, CSS, JS), but no experience working with Bootstrap.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

Node.js / Express.js

About - This is intended for students with experience in web development but no experience with Node or Express.

Teacher - Still looking for a teacher.

Helpers - Could use helpers.

Amazon Alexa Skills

About - This is intended for students with prior programming experience but no experience with Alexa Skills.

Teacher - Still looking for a teacher.

Helpers - Could use helpers.

Database Design

About - This is intended for students with some Database experience. This is open for alterations, or specifications about using particular systems.

Teacher - Still looking for a teacher.

Helpers - Could use helpers.

Advanced Functional Programming in Scala

About - This is intended for students interesting in gaining a further understanding of Scala.

Teacher - Already have a professional instructor lead.

Helpers - Could use helpers.

Introduction to Android Apps in Java

About - This is intended for students with experience in Java but haven't developed for Android before.

Teacher - Still looking for a teacher.

Helpers - Could use helpers.

Deploying Websites and Web Security

About - This is intended for students that have completed projects in web development but are unsure of best practices about deployment and security.

Teacher - Still looking for a teacher.

Helpers - Could use helpers.

Introduction to Python

About - This is intended for students who have no experience programming whatsoever or who have never used Python.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

Introduction to Java

About - This is intended for students who have little experience programming or who have never used Java.

Teacher - Have one, but looking for a professional lead.

Helpers - Could use helpers.

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Hack
Arizona

Currently planned firstByte Workshop schedule for Hack Arizona 2018

This is subject to change based on the workshops proposed by partners.

TBD means we're currently leaving this time open for *your* workshop!

Friday

10:30pm - 12:30am

Room 1 - Introduction to Web Development

Room 2 - Introduction to Making VR Games

Saturday

12:30am - 2:30am

Room 1 - Introduction to JavaScript

Room 2 - Introduction to Java

8:30am - 10:30am

Room 1 - Introduction to Python

Room 2 - Ruby on Rails

10:30am - 12:30pm

Room 1 - TBD.

Room 2 - Introduction to Developing for iOS in Swift

12:30pm - 2:30pm

Room 1 - Advanced HTML and CSS

Room 2 - Introduction to Functional Programming in Scala

2:30pm - 4:30pm

Room 1 - Bootstrap

Room 2 - Node.js / Express.js

4:30pm - 6:30pm

Room 1 - Building Amazon Alexa Skills (TBD)

Room 2 - Database Design

6:30pm - 8:30pm

Room 1 - Introduction to Java

Room 2 - TBD.

8:30pm - 10:30pm

Room 1 - Advanced Functional Programming in Scala

Room 2 - Introduction to Android Apps in Java

10:30pm - 12:30am

Room 1 - Deploying Websites and Web Security

Room 2 - TBD.

Sunday

12:30am - 1:30 am -

Room 1 - Games or contests? TBD.

Room 2 - Games or contests? TBD.

Sunday morning (or late night Saturday)

Room 1 - TBD.

Room 2 - TBD.

If there are enough proposed workshops, ones that we've currently planned may be replaced with partner proposals. We want to provide the best quality of courses we can.

Check out [Hack Arizona's master schedule](#)
(constantly being updated)

Questions, Concerns, and Workshop Proposals

Remember to [fill out this form](#) if you're interested in leading a workshop at Hack Arizona 2018. Thank you so much for being a part of this awesome event and helping educate the next generation of technologists.

For a timely or more personal response, please contact (and reply all):

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