Ivy Seed Academy

STEM Programs 2019

Ivy Seed Academy

Ivy Seed is a pioneer in STEM education and skill development. We are dedicated to providing a high quality curriculum coupled with a fun and safe learning environment for every child. We are helping to build a flourishing community of students, teachers and families around our stem education initiatives.

Ivy Seed Academy Pathway

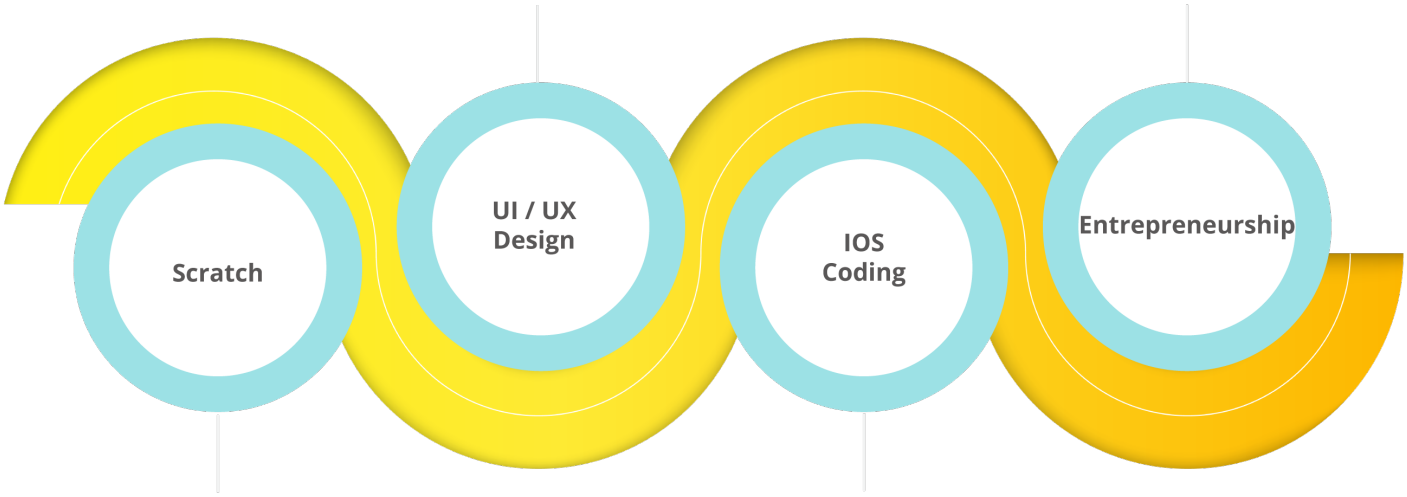
Through participation in Ivy Seed summer camps, after school and online programming, we envision students developing skill sets to support meaningful academic progress. These students should enjoy greater opportunities for educational and professional advancement toward their dream careers.

Exclusive Ivy Seed Internship Opportunity for Ivy Seed Students

Ivy Seed Academy offers exclusive internship opportunities for Ivy Seed Students. Ivy Seed Students who have complished any Ivy Seed Academy coding or design courses, and verify her/his ability in relative experience can apply to Ivy Seed Teaching Asscoiate position, and well-paid of course!

Cultivate design thinking and creativity as part of a lifelong process

Experience how to build and grow high-tech venture learning business skills, market research methods, and product design



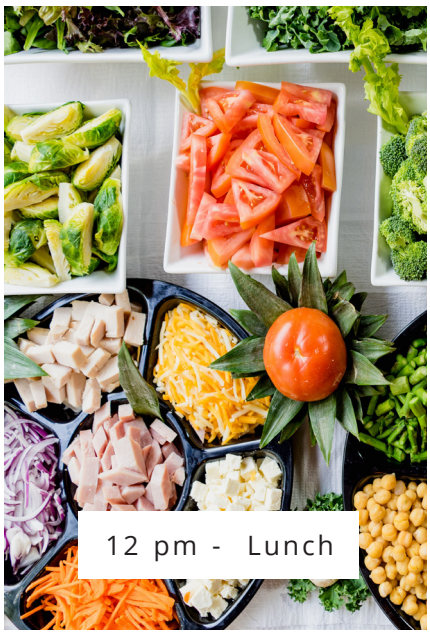
Build an interest in computer science & learn the fundamental programming language

Learning coding and application development can help your ideas come to life

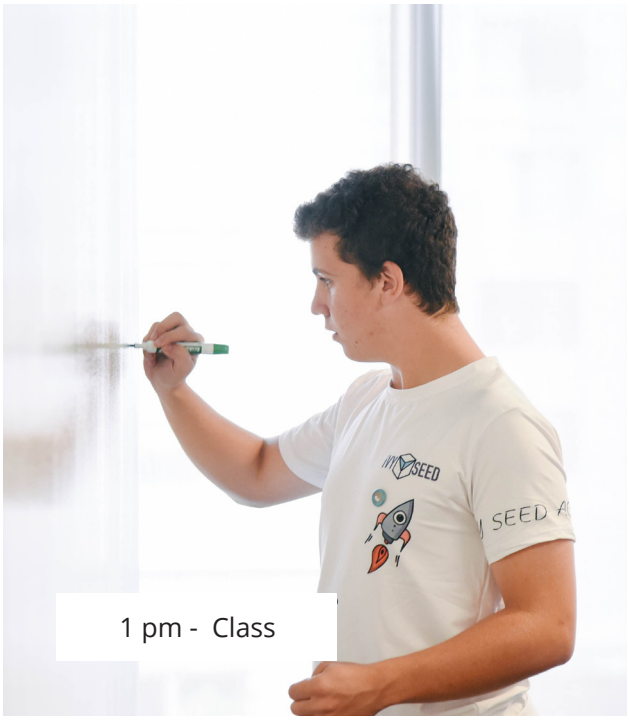
Ivy Seed Summer Camp Typical Day

9 am - Class

10 am - In-class Game


12 pm - Lunch

2 pm - Outdoor STEM Activity


1 pm - Class

4 pm - Class End

High-quality Standards

Hands-on Projects

Creative Computing

Interactive Class

Ivy Seed Teaching Model

Project Based Learning (PBL)

Students gain knowledge, learn elements of the core curriculum and also apply what they learn to solve authentic problems in real projects. PBL gives students the advantage of actually building their own projects.

Interactive Learning

Students collaborate and engage with each other to solve problems and learn. Students are immersed in a STEM environment through interactive activities.

Coaching Model

Self-exploration is the key to success. Our instructors try to be more like coaches who will help guide students to turn their ideas into reality.

Ivy Seed Teaching Standard

Curriculum Design

The curriculum design matches the standards of computer science teacher association K12 computer science learning standards.

Instructor Team

Our team of instructors come from the top universities in the nation and are passionate about sharing their knowledge with the next generation. They are experienced in teaching children and bring their industry knowledge to bear.

Robotics Programming Summer Camp

Our Robotics Program gives students the opportunity to build and program their own robot, learning important programming and problem-solving skills through the process. More and more things in our lives are becoming automated with robotics, and it is important to understand the science behind robotics in order to understand and prepare for future technology.

Program Features

- Learn to build, program and command a robot
- Design a driverless automated wheeled robot
- Program your own robot behaviors
- Learn programming with robots
- Complete six different projects

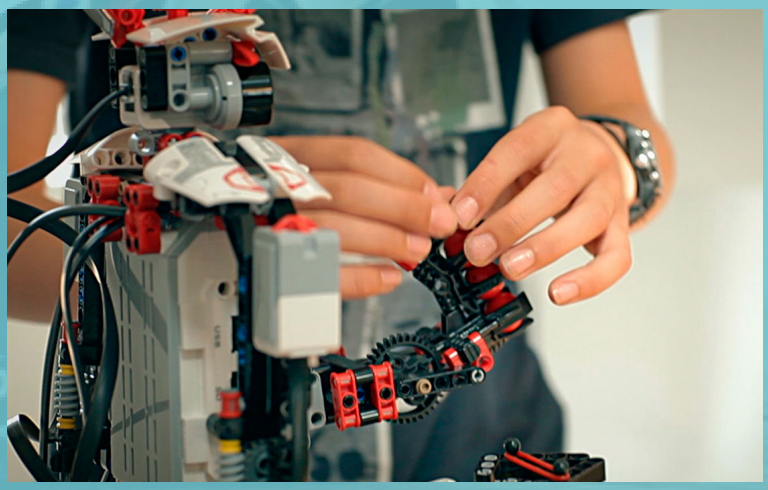
Details

Suggested Age:
10-17

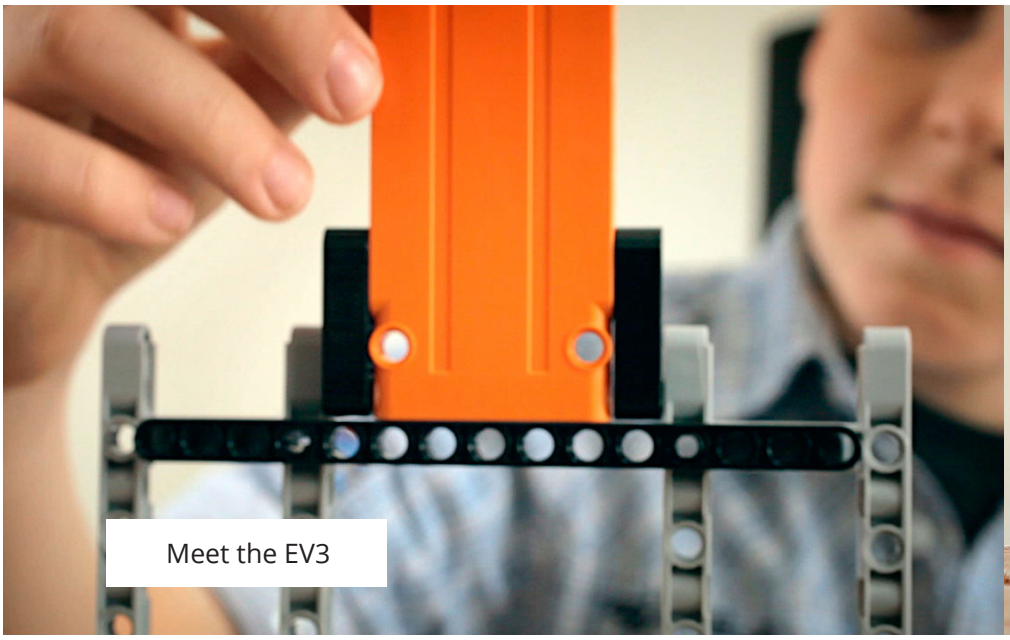
Campus:
Harvard/MIT/
Stanford

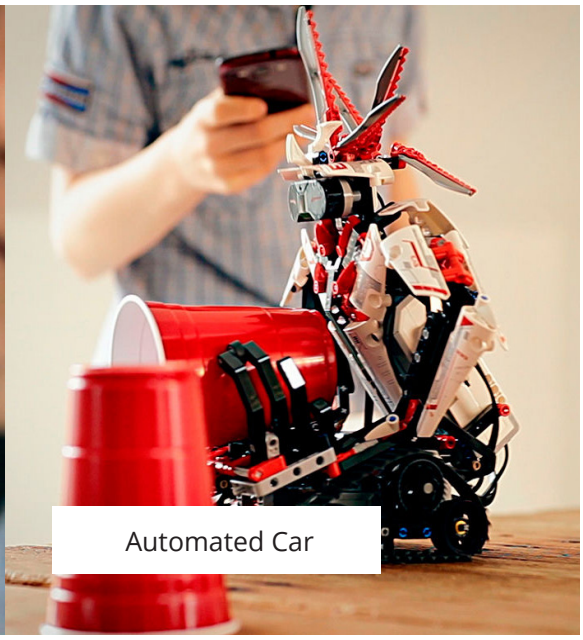
Ratio: 1:7

Prerequs:
No previous
experience required

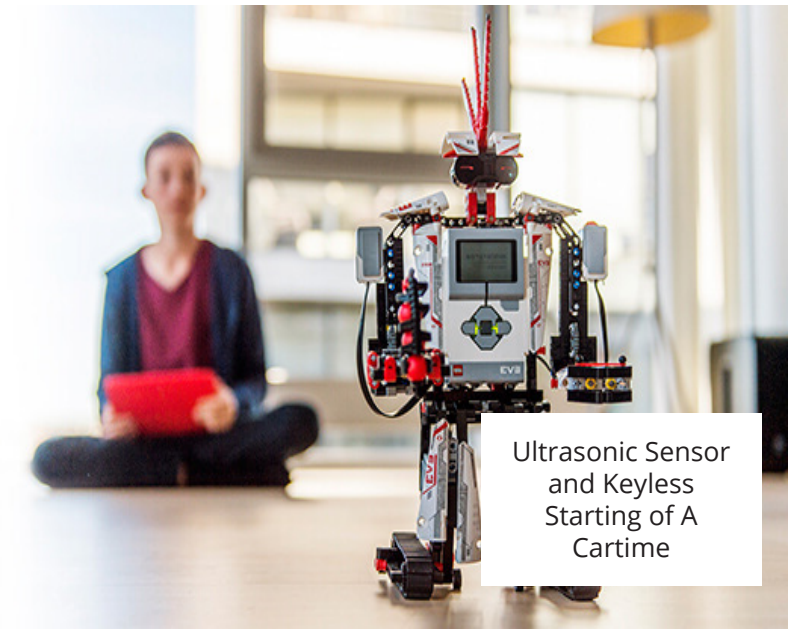


EV3RSTORM is the most advanced one of the LEGO® MINDSTORMS® robots. During this camp, students will have the opportunity to build their own robots, programme the robots and bring them to life.





Curriculum Example



Scratch Programming Summer Camp

Our Scratch program is the best way for young students to begin learning programming concepts and logical-thinking skills. Scratch is a visual programming language specially designed for kids, allowing students to use their creativity to design all sorts of programs and games.

Program Features

- Gain creative computation concept
- Design and build their own Scratch games
- Create 8 different Scratch games
- Cultivate an interest in programming
- Learn the computational concept
- Increase logical thinking ability
- Bring their projects home

Details

Suggested Age:
6-12

Campus:
Harvard/MIT/
Stanford

Ratio: 1:7

Prerequs:
No previous
experience required

Ivy Seed Academy & STEM Education

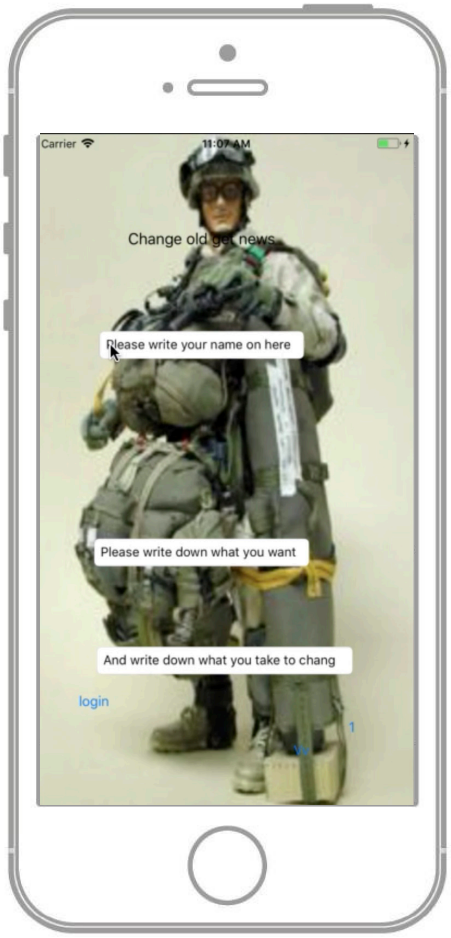
Technology is continuously expanding into every aspect of our lives, so it is important for students to understand STEM in order to succeed in the future. Through our STEM exploration programs, students will develop their problem-solving skills and learn about different areas of STEM to prepare for a brighter future.

Ivy Seed Academy
Student Projects

Calculator

The calculator is a simple but necessary mathematical tool for everyone. The right calculation APP can take a headache out of dealing with complex calculations.

Wenzi Suo - 2018 Summer Camp Class 4



Exchange Store

The exchange store aims to help people exchange the things that they don't want and get what they want.

Vv Cheng - 2018 Summer Camp 6

iOS Development Summer Camp

Swift is a powerful programming language for iOS development. Writing Swift code is interactive and fun. It can be a useful educational tool helping students create Apps, explore code and share their creations. Ivy Seed campers will learn how to use the Swift 4 by undertaking interactive projects. They will develop their own Apps by the end of the camp.

Program Features

- Learn programming fundamentals
- Know how to make an App
- Explore Xcode environment
- Complete 4 App design projects
- Learn the Swift programming language
- Bring their projects home

Details

Suggested Age:
7-17

Campus:
Harvard/MIT/
Stanford

Ratio: 1:7

Prerequs:
No previous
experience required

movistar
12:05
Elegir puntos
MAPA
Conchalí
Vitacura
Quinta Normal
Pudahuel
Maipú
San Miguel
San Ramón
El Bosque
La Pintana
San Bernardo
Puente Alto
Calera de Tango
R-78
70

UI/UX Design Summer Camp

UI/UX is the face of all web and mobile applications, and includes graphic design, user design, user experience, and so much more. Our UI/UX Program allows students to use and develop their creativity and critical thinking abilities to design their own projects. The ability to understand design thinking and user experience helps people get in all industries easier.

Program Feature

- Experience design sprint
- Learn design thinking
- Learn how to use Sketch
- Understand user experience thinking
- Design a UI/UX project to solve a social issue

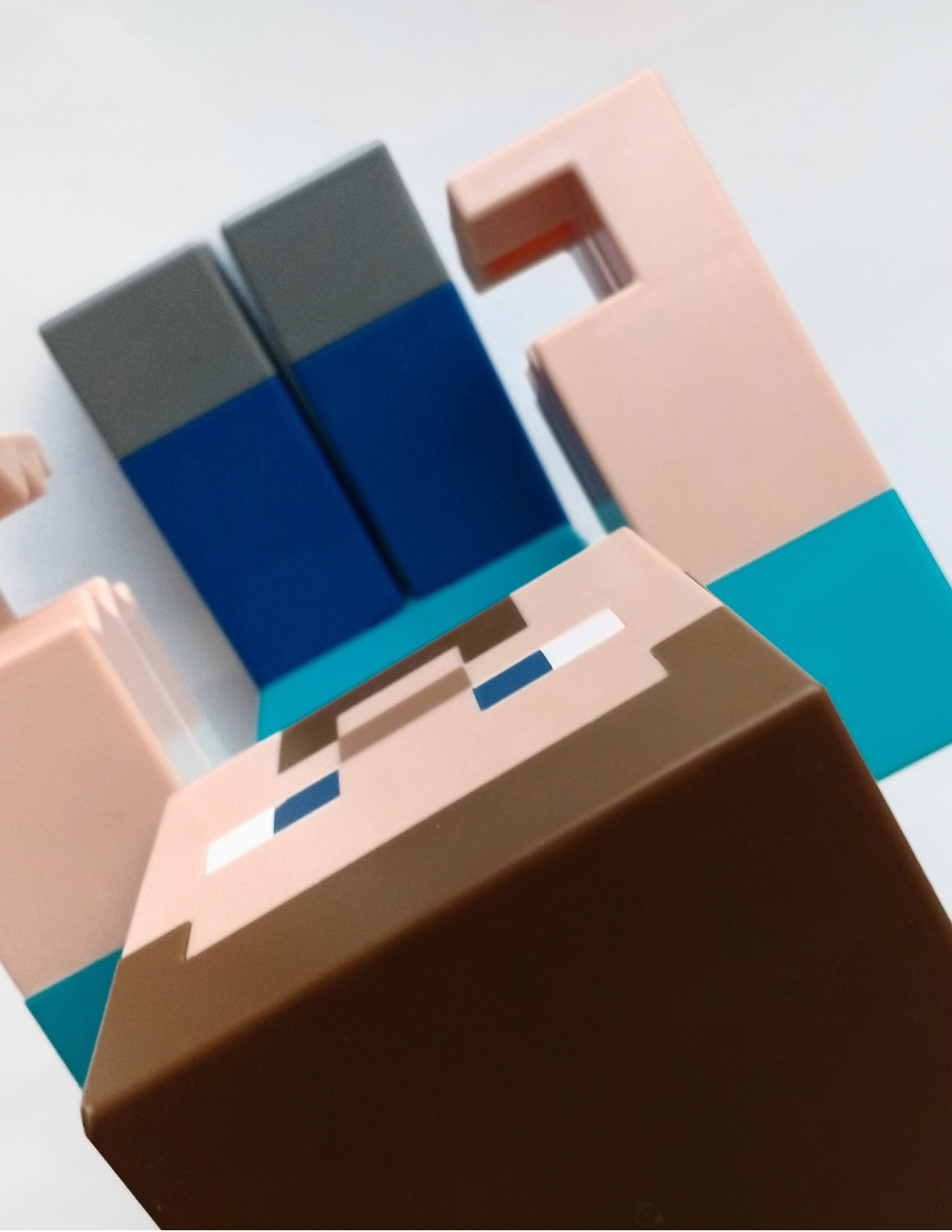
Details

Suggested Age:
7-17

Campus:
Harvard/MIT/
Stanford

Ratio: 1:7

Prerequs:
No previous
experience required



Minecraft Coding Lab Summer Camp

Minecraft is a famous sandbox game, and one of the best educational tools for kids in learning coding and designing. Our Minecraft Coding Lab Program helps students to learn the fundamentals of programming inside the Minecraft World and to develop the problem-solving skills needed to use coding in the real world.

Program Features

- Top university experience
- Learn from the best instructors
- Game based projects
- Interactive class
- Create your own minecraft game

Details

Suggested Age:
7-12

Campus:
Harvard/MIT/
Stanford

Ratio: 1:7

Prerequs:
No previous
experience required

Details

Suggested Age:
10-18

Campus:
Harvard/MIT/
Stanford

Ratio: 1:7

Prerequs:
No previous
experience required

Game Design Summer Camp

Our Game Design Program allows students to learn the fundamentals of computer programming in a fun and dynamic environment to design their own game. Students are able to use their creativity to solve problems and build the games that they love to play.

Program Features

- Learn game design principles
- Design your own game characters & buildings
- Learn to code with game-based projects
- Publish final game projects on Roblox

Youth High-tech Business Incubator Summer Camp

Business Incubator is a great program for motivated students to push their limits and use their own talent and creativity to develop their own business idea working with a team.

The program simulates the startup environment in tech companies and is a great place for budding entrepreneurs to build friendships and connect with other students with similar interests.

Incubator Experience

- Enter the incubator & learn incubator culture
- Match with your team
- Business/design/technology workshops
- Brainstorm your ideas with teammates
- Start incubation
- Marketing research
- Product design
- Budget management
- Business plan
- Presentation

Details

Suggested Age:
13-18

Campus:
Harvard/MIT/
Stanford

Ratio: 1:7

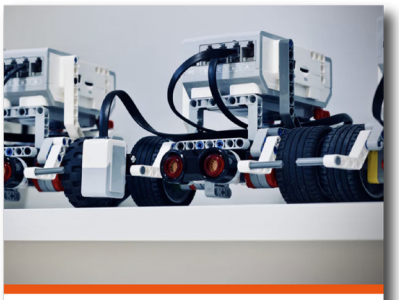
Prerequs:
No previous
experience required

Ivy Seed Academy Program List

(Summer Camps)

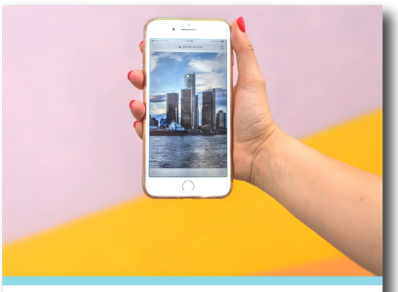
Game Design

(Age: 10 -18)



Robotics Programming

(Age: 10 -17)

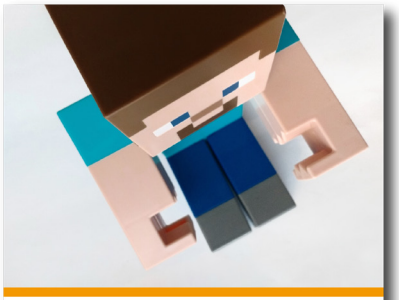


iOS Development

(Age: 7 -17)

Scratch Programming

(Age: 6 -12)



Minecraft Coding Lab

(Age: 7 -12)

UI/UX Design

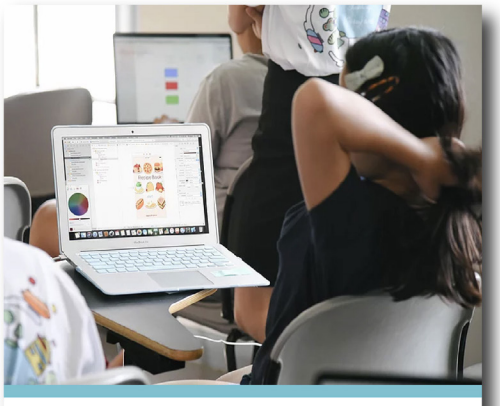
(Age: 7 -17)

Youth High-Tech Business Incubator

(Age: 13 -18)

Ivy Seed Academy Program List

(After School & Online Programs)



Python 101

(Age: 10 -17)

Scratch 101

(Age: 6 -12)

iOS Development 101

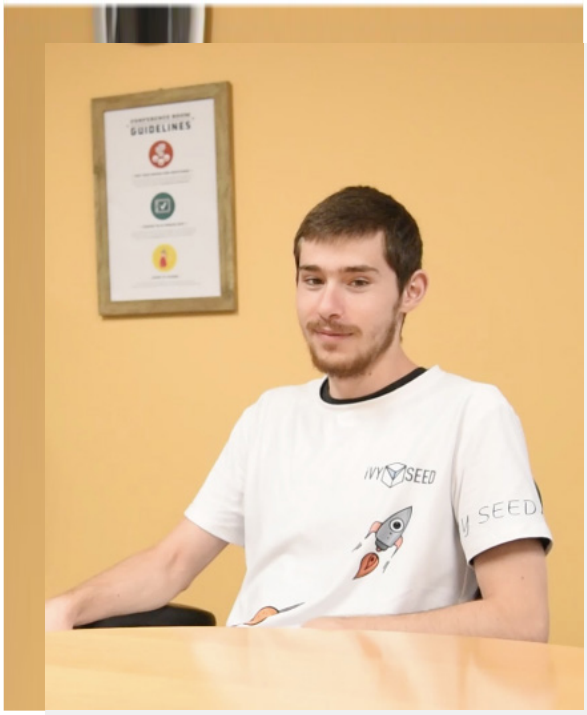
(Age: 7 -17)

After School Only

Python Data Science

(Age: 10 -17)

After School Only



Meet Our Passionate Instructors

Our team of instructors come from the top universities in the nation and are passionate about sharing their knowledge with the next generation. They are experienced in teaching children and bring their industry knowledge to bear.

"Ivy Seed has been more than just a camp – it has been the beginning of a student's career."

The Best Summer Camps

Combine your favorite camps as you wish! Whether you want to gain the design thinking ability after taking a coding camp, or you want to apply your fresh coding knowledge at our high-tech incubator, our dedicated camp specialist will help you to design your summer experience!

Register at

ivy-seed.com

Email: contact@ivy-seed.com

Tel: 857-990-4915

Office: 50 Milk St, 12th Fl, Boston, MA 02109