Courses Introduction

JR. ADVENTURES | *Ages 7-9*

GAME DESIGN

Jr. Adventures In Minecraft Game Design
| *Price: $1545 tuition + $49 Facility* | *Date: Jul 29-Aug 2 / Aug 12-16*
Campers learn what it's like to be a real game designer as they work in teams to create their own stories, levels, and games within Minecraft.
What Students Learn: How to use Minecraft as a game engine, Command Blocks, Critical thinking, troubleshooting, and teamwork
What Students Create: Minecraft mini-games, Environments, terrain and structures, rules, narrative and mechanics

Jr. Adventures In Gaming Coding
| *Price: $1545 tuition + $49 Facility* | *Date: Aug 5-9 / Aug 19-23*
Discover how to create video games and character animations while learning the basics of computer programming using ScratchJr.
What Students Learn: How to create character animations and simple games, Foundational programming concepts and vocabulary (Sequences, conditions, Loops, Algorithms...), the purpose of a program and programers
What Students Create: Interactive Story Apps, Asteroid Evasion Game, Crossy Road and Geometry Dash Games, Dodgeball and Geometry Dash Games

ROBOTICS + ENGINEERING

Jr. Adventures In LEGO Robotics
| *Price: $1545 tuition + $49 Facility* | *Date: Jul 29-Aug 2 / Aug 12-16 / Aug 19-23*
Students will build a motorized Milo robot with motion and tilt sensors – Milo's application enables students to use powerful digital tools to carry out investigations and build and program.
What Students Learn: Basic engineering concepts, the many applications and designs of robots in our world, Fundamental programing concepts such as flow, sensor inputs and motor outputs.
What Students Create: Nine differents robots, each one demonstrating a fundamental concept related to either simple machines or block-based programming.

FILM + PHOTOGRAPHY

Jr. Adventures In Acting Filmmaking
| *Price: $1545 tuition + $49 Facility* | *Date: Aug 5-9*
Bring your story to life as you learn how to shoot and edit movies and express yourself through acting while exploring different filmmaking techniques.
What Students Learn: The 3 stages of film production, Storytelling techniques, On-camera acting techniques, Camera/Ipad shooting techniques, Editing in iMovie.
What Students Create: Silent Film, Super Hero Film, Fairy Tale Film, Fable Story.

ADVENTURES | *Ages 9-12*

3D MODELING + DESIGN

Adventures In 3D Printing & Modeling
| *Price: $1830 tuition + $49 Facility* | *Date: Aug 5-9*
Students use cutting-edge 3D-printing technology to produce, evaluate and reiterate models and design creations.
What Students Learn: How 3D printers are changing the world, how to download pre-made 3D models, how to make a 3D, The design and engineering process, the thinking behind he indusrial design and common consumer goods.
What Students Create: Printed 3D models, A final Project designed fro the ground up that gets printed, A variety of 3D Models inside TinkerCAD.

Made by Girls: Adventures in Wearable Tech & Fashion
| *Price: $1755 tuition + $49 Facility* | *Date: Aug 19-23*
Learn the engineering design process using 3D modeling software to create your very own virtual clothing and digital patterns.
What Students Learn: The hardware and software tools required to create works of wearable technology, Series and parallel Circuits, Pattern Design using Adobe Illustrator.
What Students Create: 4 e-textile projects, 3 Arduino Programs, Patterns for accessory design, A customized runway-ready project.

FILM + PHOTOGRAPHY

Adventures In Animation
| *Price: $1555 tuition + $49 Facility* | *Date: Jul 29-Aug 2 / Aug 19-23*
Create drawings and bring them to life using production techniques such as timelines and keyframes in Toon Boom Harmony.
What Students Learn: Basic animation and fundamentals of storytelling, discover how to create "claymation and humanimation, develop basic cartoon-drawing skills.
What Students Create: Digital illustrations and simple drawings, storyboard and project plans, 2D animated short films, A stop-motion animated film, A final animation reel.

Adventures In Filmmaking
| *Price: $1675 tuition + $49 Facility* | *Date: Jul 29-Aug 2 / Aug 12-16*
Discover how Hollywood shoots and edits movies while mastering filmmaking and special effects techniques.
What Students Learn: The movie making process start to finish, how to use a camera to tell stories, how to edit with adobe premiere, how to work on a team.
What Students Create: 2 short films, Commercial or PSA with stock footage.

MUSIC PRODUCTION

Adventures In Electronic Music
| *Price: $1495 tuition + $49 Facility* | *Date: Aug 12-16*
Get into the rhythm of Electronic Music Production, learning the basics of music, and how to use professional music software!
What Students Learn: The basic elements of music, how to use professional music recording software, how to create custom sounds, how to record their own musical ideas.
What Students Create: Songs inspried by popular video games and funny internet games, A professional sounding mix of their favorite song from the class.

ROBOTICS + ENGINEERING

Makers Workshop with Take-Home Electronics Kit
| *Price: $1695 tuition + $49 Facility* | *Date: Aug 5-9 / Aug 19-23*
Learn how to program electronics using Arduino, an electrical engineering prototyping platform that teaches people about electronics, and how electronic circuits can work.
What Students Learn: Programming in Microsoft MakeCode, Coding concepts, digital and analog input and output, Connecting external sensors and circuitry.
What Students Create: Fortune Teller, Grand Prix and Treasure hunt videos games, Bluetooth Rock-Paper Scissor Game, Music Box, Electronic Musical Instrument.

Adventures In LEGO Robotics & Programming
| *Price: $1675 tuition + $49 Facility* | *Date: Jul 29-Aug 2 / Aug 12-16*
Learn to design, build and program awe-inspiring robots using LEGO's most advanced and newest robotics technology – the powerful MINDSTORMS EV3.
What Students Learn: Engineering design process, how to follow building guides, how to program, how to analyze data, how to problem-solve, how to innovate and build a new Lego Robot
What Students Create: A portfolio of LEGO designs on LEGO Digital Designer, programs using the EV3 software, One robot than can complete a given challenge, Different building and programming approaches

GAME DESIGN

Adventures in Minecraft Game Design
| *Price: $1655 tuition + $49 Facility* | *Date: Jul 29-Aug 2 / Aug 19-23*
As you build your virtual world, you also explore the different roles required to develop a video game including: programmer, game designer, architect, and artist.
What Students Learn: The roles of a Game Design team, Image editing, Game mechanics and narrative, Project management.
What Students Create: Resource packs custom textures, Maps and structures to support a game, A game design document, A playable adventure map.

Adventures in Roblox Game Development
| *Price: $1605 tuition + $49 Facility* | *Date: Aug 19-23*
Become a Roblox entrepreneur! Learn how to use Roblox Studio to create your own levels, environments, and worlds.
What Students Learn: The basic of good game design, how to manipulate objects in Roblox, Basics of lighting, color and UI, Collaboration and project management.
What Students Create: A single player platforming game, A team based group project game.

Made by Girls: Adventures in Game Design
| *Price: $1495 tuition + $49 Facility* | *Date: Jul 29-Aug 2*
Discover the immersive world of game development and learn key game design principles including game theory, character creation, digital storytelling, and publishing.
What Students Learn: How to create game elements, the basics of how to use GameSalad and Adobe Photoshop, Learn foundational game design principles, Explore the Design Thinking process, Build various mobile games.
What Students Create: Sprite-based 2D platforming games, original and playable 2D puzzle games, Backgrounds and characters, several Coding Scripts.

CODING + ARTIFICIAL INTELLIGENCE

Adventures in Artificial Intelligence
| *Price: $16 45 tuition + $49 Facility* | *Date: Aug 5-9*
Students will create their own artificial intelligence like Chatbots, Natural Language processing and Recommendation systems through Google Assistant, Google Home and block-based JSON.
What Students Learn: Artificial intelligence and Machine Learning uses, Fundamentals of model training, Chatbot construction and basic programming.
What Students Create: A functional chatbot, Machine Learning models for text and image recognition, Games and animations.

Adventures in Game Coding
| *Price: $1645 tuition + $49 Facility* | *Date: Aug 12-16*
Get introduced to coding to understand concepts such as functions, variables, strings, and objects to create video games & animations. Create your own custom game!
What Students Learn: Block-based programming, Game basics and mechanics, Game physics, Project management.
What Students Create: Custom games, offline game prototypes, Game assets and simple animations.

Adventures In App Development
| *Price: $1655 tuition + $49 Facility* | *Date: Aug 5-9*
Students will leave with an understanding of programming and a functional app that can be published to an iPhone, iPad and Android to be shown to friends and family back home.
What Students Learn: Programming Fundamentals, Variables & Loops, Conditional Statements Algorithms, UI Design how to make app.
What Students Create: Several basic apps, A chatbot app, A whack-a-mole app, A social media app, A self-designed app.

Adventures In Java Programming with Minecraft
| *Price: $1655 tuition + $49 Facility* | *Date: Aug 5-9*
Work with Minecraft's Java-based source code to create new types of blocks, ores, custom armor and items for the game.
What Students Learn: Basic programming concepts with Java, project management and scoping, the game design process and playtesting, Events, iteration and logic.
What Students Create: Server-side, event-based mods for Minecraft, A game of Adventure with a narrative, Balanced additions to an existing game.