

2018 Summer Youth Enrichment Programs

NEW Make Your First 3D Video Game, (8 to 14 years old)

In this Black Rocket classic, you will go well beyond the limitations of the traditional 2D game design classes and create an immersive 3D world. Students will learn the physics behind 3D games, explore beginner event scripting, level design, controlling the flow of gameplay, and storytelling. Student created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. **Please bring a snack and drink.**

July 23-July 26, 2018

Mon-Thurs, 9:00 am – 12:00 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ639A0

Cost: \$139

Super Science STEM Challenges, (7 to 12 years old)

Discover the excitement of science and make a variety of toys designed to illustrate science concepts that make learning fun. Most of the projects can be taken home as they are made throughout the week. Make your own working telescope as you learn about the optics of light. Construct an electro-magnet and a working electric motor. Build an adjustable, ball-launching catapult that changes the trajectory of a flinging projectile. Create a working model of Hero Alexandria's fountain or vortex tornado in a bottle. Make ultra-violet bead bracelets, a working compass, submarine divers, and more. Projects will vary by age level and instructions will be taught in more depth for older students. **Please bring a snack & drink.**

July 23-July 26, 2018

Mon-Thurs, 9:00 am – 12:00 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640A0

Cost: \$109

NEW Advanced 3D Video Game with Unity, (8 to 14 years old)

Are you ready to take your game design skills to another level? With Unity, an industry grade design software, aspiring game designers will learn level editing, 3D modeling, intermediate event scripting, and the impact of game play on user experience. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. Please bring a snack and drink.

July 23-July 26, 2018

Mon-Thurs, 12:30 pm – 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ639B0

Cost: \$139

Battle-Bot Build-A-Thon, (7 to 12 years old)

Have fun building and creating using your imagination. Campers will construct a complex Battle-Bot robot from our huge Robotix modular collection. Enjoy working together to build a robot that can clobber its opponent in our sumo-style robot ring. Make your robot as huge and destructive as you'd like as the goal of this competition is to flip your opponent over, pull pieces off, or ram it right out of the arena. Then get ready to modify your design to compete in our robot tug of war, Olympic competition, soccer match, and more. Campers will learn engineering principles in a fun, hands-on atmosphere. All campers will take home a Hexbug Warrior. **Please bring a snack and drink.**

July 23-July 26, 2018

Mon-Thurs, 12:30 pm-3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640B0

Cost: \$109

Make Your First Video Game, (8 to 14 years old)

If you love playing video games, this is the camp for you! Make your first video game in this one-of-a-kind class that shows you the keys to designing your first 2D platformer game. Conceptualization, play experience, level design, graphics, sounds, and simple coding are just some of the concepts that we'll explore. No prior experience necessary, just a desire to have fun. Student created games will be available on a password protected Black Rocket website to share with friends and family. Games are only compatible on PC computers, Mac versions can be created after the program for \$15.00 conversion fee. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years. **Please bring a snack and drink.**

July 30-Aug 2, 2018

Mon-Thurs, 9:00 am-12:00 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ639C0

Cost: \$139

NEW Motorized Lego Maker Machines, (7 to 12 years old)

All Lego, all machines, most - motorized. LEGO enthusiasts, have fun building and designing a wide variety of machines and mechanisms that will help to solve everyday problems! Each day our students will be given one or more real-world or simulated problems. Students will then design and construct solutions to these problems using a wide assortment of motorized Lego mechanisms. At the same time, students will learn about machines, gears, robotics, forces and motion, physics concepts, and more. Have fun working with a team, solving real-world problems, and building a wide assortment of unique Lego projects! **All students will take home a LEGO project designed and made in class. Please bring a snack and drink.**

July 30 – Aug 2, 2018

Mon-Thurs, 9:00 am – 12:00 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640C0

Cost: \$109

NEW Minecraft Animators, (8 to 14 years old)

Bring your favorite Minecraft characters to life in an animated short film! Learn how studios like Pixar and Disney make movies like Inside Out and Frozen by using techniques like keyframing, tweening, texturing, and animating rigged 3D models! Student projects will be available on a password protected Black Rocket website to share with friends and family. You do not need to own a Minecraft account to use the software in this class. Students will work in pairs or teams for most of the program. Mac users can play their project at home, but will not be able to edit the project without a PC. Returning students can create more advanced projects that build on previous years. **Please bring a snack and drink.**

July 30 – Aug 2, 2018

Mon-Thurs, 12:30 pm– 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ640C0

Cost: \$139

NEW Oceanography, (9 to 14 years old)

Come and explore the vastness of the ocean from sandy shore to unexplored abyss in Super Science for Kid's brand-new Oceanography class. Students in this class will engage in multiple scientific disciplines ranging from Ecology and Anatomy to Geology and Chemistry. STEM challenges will include creating your first submersible and designing the perfect plankton. Round out a course that offers students a challenge that is both fun and educational. **Please bring a snack and drink.**

July 30 – Aug 2, 2018

Mon-Thurs, 12:30 pm – 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640D0

Cost: \$109

NEW Chem Wizardry, (7 to 12 years old)

Get ready for a fun-filled "magical" laboratory experience Harry Potter style. Enjoy making Flubber, Silly Putty, Super Hi-Bounce balls, and more. Have fun making carbon dioxide "bomb" bag, light inside of a glow bottle, a mushroom monster, play dough, Glowing Goo, and even a tie-dye shirt. We will create atomic worm polymers and lava lamp-like blobs. We will also demonstrate the Big Bang Cannon, diet Coke and Mentos Geyser, Magic Genie in a bottle, and more. All campers will take home a mini-chemistry kit & recipe booklet. Please bring a 100% white cotton T-shirt to the second class. **Please bring a snack and drink.**

Aug 6 – Aug 9, 2018

Mon-Thurs, 9:00 am-12:00 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640E0

Cost: \$109

Minecraft® Designers, (8 to 14 years old)

If you love the game Minecraft, and always wanted to design your own world, this class is for you! Learn how to create a custom map, the basics of creating 3D models using a new software to design your very

own objects, how to build with Redstone and Command blocks, and create custom textures for you to import at home or share with friends. To access their project at home, students must own a PC/MAC version of Minecraft. Tablet, phone, and game console versions of Minecraft are not compatible. Parent email address is required to use 3D modeling software. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years. **Please bring a snack and drink.**

Aug 6-Aug 9, 2018

Mon-Thurs, 9:00 am – 12:00 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ639E0

Cost: \$139

Minecraft® Modders, (8 to 14 years old)

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mods! Introductory coding will also be taught through a simulated environment inspired by Minecraft. Student projects will be available on a password protected Black Rocket website to share with friends and family. To access their project at home students must own a PC/MAC version of Minecraft. Tablet, phone, and game console versions of Minecraft are not compatible. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years. **Please bring a snack & drink.**

Aug 6-Aug 9, 2018

Mon-Thurs, 12:30 pm – 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ639F0

Cost: \$139

NEW Make and Take, (6 to 10 years old)

Discover the excitement of science and make a variety of toys designed to illustrate science concepts that make learning fun. Most of the projects can be taken home as they are made throughout the week. Make your own working telescope as you learn about the optics of light. Construct an electro-magnet and a working electric motor. Build an adjustable, ball-launching catapult that changes the trajectory of a flinging projectile. Create a working model of Hero Alexandria's fountain or vortex tornado in a bottle. Make ultra-violet bead bracelets, a working compass, submarine divers, and more. Projects will vary by age level and instructions will be taught in more depth for older students. **Please bring a snack & drink.**

Aug 6-Aug 9, 2018

Mon-Thurs, 12:30 pm – 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640F0

Cost: \$109

Video Game Animation, (8 to 14 years old)

Take your game design skills to the next level by creating and animating your own character sprites, objects, and backgrounds. Start with a name, develop the character's personality, signature moves,

special powers, and a story line. Finish with a fully animated character to be used in your very own game. Students do not need any prior experience in game design, animation, or sketching. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Games are only compatible on PC computers; Mac versions can be created after the program for \$15.00 conversion fee. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years. **Please bring a snack and drink.**

Aug 13-Aug 16, 2018

Mon-Thurs, 12:30 pm – 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ639G0

Cost: \$139

LEGO Star Wars and Motorized Machines, (7 to 12 years old)

LEGO enthusiasts, have fun building your favorite adventure from a Star Wars galaxy that is far, far away. Star Wars projects will vary depending on availability from LEGO headquarters, but will include age-appropriate new models and the best of some of the older models. Campers will also build a wide assortment of non-Star War motorized LEGO Education machines and create their own projects that illustrate science concepts. This is a stimulating enrichment program and not geared as a teacher-driven education class. All campers will take home a LEGO Star Wars project. **Please bring a snack and drink.**

Aug 13-Aug 16, 2018

Mon-Thurs, 9:00 am– 12:00 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640G0

Cost: \$109

NEW ROBLOX® Makers-Coders-Entrepreneurs, (8 to 14 years old)

Discover how to code in the Lua language while playing and designing worlds in ROBLOX®, an online universe where you can create anything you dream of. This new class combines game design concepts, coding, and fun! Young entrepreneurs will also learn how to navigate Roblox's fast growing marketplace to publish their games. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program.

Please bring a snack and drink.

Aug 13-Aug 16, 2018

Mon-Thurs, 12:30 pm – 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A317

Course #: ZZZ639H0

Cost: \$139

Architecture and Engineering Challenges, (7 to 12 years old)

You will work to design and build towers, balsa bridges and a wide array of Lego and K'nex™ architecture projects. Have fun building famous architectural designs from around the world including Adam Tucker Reed's famous brick structures including the Empire State Building, Imperial Hotel, Whitehouse, Imperial Hotel, Flat Iron Building, Seattle Space Needle, and more. You will also build bridges, towers, and other

structures using a variety of materials and learn about structural engineering principles and forces that act on structures. Develop science, technology, engineering and mathematics skills in a fun, hands-on environment. **Please bring snack and a drink.**

Aug 13-Aug 16, 2018

Mon-Thurs, 12:30 pm – 3:30 pm

SCCC, Performing Arts Center/Health Sciences, Building, Room A321

Course #: ZZZ640H0

Cost: \$109