Steam Summer Catalog 2019

JULY 8 - AUGUST 15

FOR AGES 8 - 13
Campers can unleash their creativity this summer when they are empowered to be as creative as they were all born to be! Every program is powered by the campers’ imagination, and designed to bring their ideas to life in a fun, hands-on, learning program based around science, technology, engineering, art, and math. STEAM activities will prepare students for success in the upcoming school year and beyond.

From concept to creation, students will demonstrate their masterpiece to the world at the end of each week!

Open Houses will be held at the CSI Main Campus—Building 2M, Room 212

Features
- Camp hours 9:00 am to 4:00 pm
- Choose from Full-Day or Half-Day Camps
  - Morning: 9:00am - Noon
  - Afternoon: 1:00pm - 4:00pm
- Combine 2 classes for 4 full days of camp

Pricing
- Monday - Thursday Half-Day Camp - $200/week
- Monday - Thursday Full-Day Camp - $400/week
- $25 additional surcharge for Virtual Reality and Adventures in Augmented Reality
- Sibling Discount 5% per sibling enrolled
- $30 registration fee

Call 718.982.2182 to reserve your child’s seat

Office of Workforce Development & Innovation
Division of Economic Development, Continuing Studies, & Government Relations
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<th>July 8 - July 11</th>
<th>9:00am - Noon</th>
<th>Monday - Thursday</th>
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| **Minecraft® Modders**  
Modify and create your own Minecraft® characters, tools, mobs, and more!  
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. Students must own a Java 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. |

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<th>July 8 - July 11</th>
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| **Battle Royale: Make Your First Fortnite® Style Video Game**  
Design a thrilling multiplayer experience!  
Fans of Fortnite® we need you! Instead of playing the game, design your own. Using a professional 3D game development software, build levels and assets inspired by popular battle royale games like Fortnite®. This course includes cartoonish action and battle sequences. 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. |

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<th>July 15 - July 18</th>
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| **ROBLOX® Coders & Entrepreneurs!**  
Learn to code and publish your own Roblox® games using Lua!  
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. |

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| **ROBLOX® Makers**  
Learn to code Lua while designing Roblox® games!  
Unlock the power of ROBLOX® Studio, the world creation tool used by real-world ROBLOX® developers! Learn how to build 3D models and create an adventure in your ROBLOX® world. Bring characters to life with unique animations you design. Student-created projects 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. |
### Code Breakers

**Learn how to use code in making your ideas become reality!**

Calling all future coders, programmers, & designers! Learn the basics of coding languages like HTML, JavaScript, and CSS through a series of Web projects and design challenges each day, and be on your way to becoming the next tech star! Whether you want to be the next Mark Zuckerberg or the high school student who just made $1 million dollars for programming in her bedroom, this course has the essentials you need to begin your journey. Projects will be available on a password-protected Black Rocket Website to share with friends and family.

**July 22 - July 25**
**9:00am - Noon**
**Monday - Thursday**

### Python Programmers

**Make your own multiplayer game!**

YouTube, Google, Instagram, and Spotify – what do they have in common? They were created with Python. Learn how to code with Python and create your first multi-player adventure game. Each lesson takes you step-by-step to start you on a programming path that will let you challenge friends with a fun game you build from start to finish!

**July 22 - July 25**
**1:00pm - 4:00pm**
**Monday - Thursday**

### Make Your First Video Game!

**Create your first platformer video game using characters that you choose!**

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, challenge levels, graphics, sounds, and simple coding are just some of the concepts that we’ll explore. No prior experience is 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.

**July 29 - August 1**
**9:00am - Noon**
**Monday - Thursday**

### Video Game Animation

**Dive into animating sprites in a video game!**

Take your game design 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 future games. Students do not need any prior experience in game design, animation, or sketching. Student-created animations will be available on a password-protected Black Rocket Website to share with friends and family.

**July 29 - August 1**
**1:00pm - 4:00pm**
**Monday - Thursday**
Embark on an EPIC adventure in virtual reality! In this cutting-edge class, you will learn the foundations of VR design by creating your own virtual worlds, exploring simulated environments, and crafting memorable 3D experiences. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a Website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset, a camper will need access to an Android or Apple mobile device. Students will work in pairs or teams, and VR projects will be available on a password-protected Black Rocket Website to share with friends and family.

Virtual Reality
Learn the foundations of VR design by creating your own virtual worlds.

August 5 - August 8 9:00am - Noon
Monday - Thursday

Battle Royale: Make Your First Fortnite® Style Video Game
Design a thrilling multiplayer experience!

Fans of Fortnite® we need you! Instead of playing the game, design your own. Using a professional 3D game development software, build levels and assets inspired by popular battle royale games like Fortnite®. This course includes cartoonish action and battle sequences. 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.

Battle Royale: Make Your First Fortnite® Style Video Game
Design a thrilling multiplayer experience!

August 5 - August 8 1:00pm - 4:00pm
Monday - Thursday

Adventures in Augmented Reality
Create your own holograms!

Watch as holograms come to life in the first-ever augmented reality for kids! Students will work in cutting-edge software to create holographic scenes that are viewable with a smartphone and a magic futuristic cube. Student-created projects 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.

Adventures in Augmented Reality
Create your own holograms!

August 12 - August 15 9:00am - Noon
Monday - Thursday

Make Your First 3D Video Game!
Make your own fun and challenging 3D game with industry-grade software!

Try this new version of a Black Rocket classic! This class allows you to develop a game concept that goes well beyond the limitations of the traditional 2D game design classes. Students will learn the physics behind 3D games, explore beginner event scripting, level design, and control flow of gameplay and story telling. Student-created games will be available on a password-protected Black Rocket Website to share with friends and family.

Make Your First 3D Video Game!
Make your own fun and challenging 3D game with industry-grade software!

August 12 - August 15 1:00pm - 4:00pm
Monday - Thursday