

COMPUTERS

Fun with Photoshop

Ages 11-15

Adobe Photoshop is fun and exciting! Students are taught the fundamentals of Adobe Photoshop using youth oriented project, such as digitally morphing humans and animals, and digital self-portrait!

Instructor: Luana Jones

CRN 30918 YT335-01 5 sessions
Mon-Fri June 26-30 1:00-4:00pm

CRN 30919 YT335-02 5 sessions
Mon-Fri July 17-21 1:00-4:00pm

Course Fee \$180

Web Page Design

Ages 8-10

Design your own Web page! Exploring kid-friendly sites on the World Wide Web and design a working Web page.

Instructor: Luana Jones

CRN 30920 YT303-01 5 sessions
Mon-Fri July 10-14 9:00am-12:00pm

Course Fee \$180

Keyboarding

Ages 8-14

Students perfect their touch-keyboarding skills and learn the fundamentals of word processing.

Instructor: Luana Jones

CRN 30921 YT301-01 5 sessions
Mon-Fri July 10-14 1:00-4:00pm

Course Fee \$180

Make Your First Video Game

Ages 8-14

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 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.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30922 YT323-01 Ages 11-14
Mon-Fri June 26-30 9:00am-12:00pm

CRN 30923 YT323-02 Ages 8-10
Mon-Fri June 26-30 1:00-4:00pm

CRN 30924 YT323-03 Ages 8-10
Mon-Fri July 24-28 9:00am-12:00pm

CRN 30925 YT323-04 Ages 11-14
Mon-Fri July 24-28 1:00-4:00pm

Course Fee \$205

Make Your First 3-D Video Game

Ages 8-14

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, controlling 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. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30926 YT327-01 Ages 11-14
Mon-Fri Aug 7-11 9:00am-12:00pm

CRN 30927 YT327-02 Ages 8-10
Mon-Fri Aug 7-11 1:00-4:00pm

Course Fee \$205

Creative Design and Robotics

Ages 8-14

The world of the future belongs to...robots! In this cutting edge class students will learn the fundamentals of motorized mechanisms, design principles, sensors, and sound activation. Separate fact from fantasy by designing and building prototypes of task oriented robots. Learn problem-solving to improve how their robots function in a series of design challenges! Students will work in pairs or teams for most of the program.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30929 YT348-02 Ages 11-14
Mon-Fri July 17-21 9:00am-12:00pm

CRN 30928 YT348-01 Ages 8-10
Mon-Fri July 17-21 1:00-4:00pm

Course Fee \$205

Maker Labs: Make Your First 3D Model

Ages 11-14

Calling all boys and girls who want to be the designers of the future! In this class if you can dream it you can make it - create your first action figure, design custom jewelry, or make a new toy! Using professional-level modeling software, kids will sculpt, texture, and render their own 3D creation. No prior experience is necessary and 3D designs will be available on a password protected website to share with friends and family. 3D printing is not included, but can be purchased separately through a 3rd party company. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Instructor: Black Rocket Productions Staff

CRN 30930 YT357-01 5 sessions
Mon-Fri Aug 14-18 9:00am-12:00pm

Course Fee \$205

App Attack! Make Your First Game App

Ages 8-14

Take the first steps into the world of mobile app design and customize your own game app! Using a specialized app & game development tool, students will explore the world of web-based (HTML5) mobile apps. In addition to learning the basics of mobile app design and game development, you will also see firsthand how the world of App publishing functions. Student-created apps will be accessible on a private site and can be played on any mobile device or computer. Publishing to App Stores not included. No prior experience is necessary and students do not need to own a smartphone or tablet to take the class. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Instructor: Black Rocket Productions Staff

3 sessions

CRN 30931 YT341-01 Ages 8-10
Wed-Fri July 5-7 9:00am-12:00pm

CRN 30932 YT341-02 Ages 11-14
Wed-Fri July 5-7 1:00-4:00pm
Course Fee \$123

5 sessions

CRN 30933 YT341-03 Ages 8-10
Mon-Fri July 17-21 9:00am-12:00pm

CRN 30934 YT341-04 Ages 11-14
Mon-Fri July 17-21 1:00-4:00pm
Course Fee \$205

Minecraft Designers

Ages 8-14

If you love the game Minecraft, but always wanted to design your own characters and buildings for your games, this class is for you! Learn the basics of creating 3D models using a new software to design your very own objects, create skins for characters, and import them into your favorite Minecraft games. To access their project at home students, must own a PC/MAC version of Minecraft. Tablet, phone, and game console version 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.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30935 YT349-01 Ages 8-10
Mon-Fri June 26-30 9:00am-12:00pm

CRN 30936 YT349-02 Ages 11-14
Mon-Fri June 26-30 1:00-4:00pm
Course Fee \$205

Minecraft Modders

Ages 8-14

Use your favorite game to learn the basics of modding and foundations of programming. Learn scripting and logic statements as you create your first mod! Introductory coding will also be taught through a simulated environment inspired by Minecraft. Student projects will be available on a 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 version 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.

Instructor: Black Rocket Productions Staff

3 sessions

CRN 30937 YT358-01 Ages 11-14
Wed-Fri July 5-7 9:00am-12:00pm

CRN 30938 YT358-02 Ages 8-10
Wed-Fri July 5-7 1:00-4:00pm
Course Fee \$123

5 sessions

CRN 30939 YT358-03 Ages 8-10
Mon-Fri July 17-21 9:00am-12:00pm

CRN 30940 YT358-04 Ages 11-14
Mon-Fri July 17-21 1:00-4:00pm

CRN 30942 YT358-06 Ages 11-14
Mon-Fri July 31-Aug 9:00am-12:00pm

CRN 30941 YT358-05 Ages 8-10
Mon-Fri July 31-Aug 4 1:00-4:00pm
Course Fee \$205

App Adventures

Ages 8-10

Continue your quest to make the next viral app! Whether you want to move past the basic techniques learned in *App Attack* or want to jump right in, we are ready for you! Students will choose from a selection of different web-based (HTML5) mobile apps and explore more in-depth programming concepts. Student-created apps will be accessible on a Black Rocket site and can be played on any mobile device or computer. Publishing to App Stores not included. No prior experience is necessary and students do not need to own a smartphone or tablet to take the class. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Instructor: Black Rocket Productions Staff

CRN 30943 YT345-01 5 sessions
Mon-Fri July 10-14 1:00-4:00pm

Course Fee \$205

Code Breakers

Ages 8-14

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 his bedroom, this course has the essentials you need to begin your journey. Projects will be available on a Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30944 YT352-01 Ages 11-14
Mon-Fri July 10-14 9:00am-12:00pm

CRN30945 YT352-02 Ages 8-10
Mon-Fri July 31-Aug 4 9:00am-12:00pm

CRN 30946 YT352-03 Ages 11-14
Mon-Fri July 31 – Aug 4 1:00-4:00pm

Course Fee \$205

New! Star Wars Stop Animation

Ages 8-14

Make your own Star Wars adventure come to life! Bring in your favorite action figures or Star Wars and create a short film with your friends. Whether you want to recreate a scene from Star Wars or design a new world of your own, this class brings your dreams to the screen. Students will need to bring in Star Wars

action figures or vehicles from home, but all other equipment provided. Student-created films will be available on a password protected website to share with friends and family. Students will work in pairs or teams for most of the program.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30947 YT371-01 Ages 8-10
Mon-Fri July 10-14 9:00am-12:00pm

CRN 30948 YT371-02 Ages 11-14
Mon-Fri July 10-14 1:00-4:00pm

Course Fee \$205

Minecraft Animators

Ages 8-14

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. Returning students can create more advanced projects that build on previous years. 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.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30949 YT366-01 Ages 11-14
Mon-Fri July 24-28 9:00am-1200pm

CRN 30950 YT366-02 Ages 8-10
Mon-Fri July 24-28 1:00-4:00pm

Course Fee \$205

New! Virtual Reality

Ages 8-14

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 at home a camper will need access to an Android or Apple mobile device. Students will work in pairs or teams for most of the program.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30951 YT372-01 Ages 8-10
Mon-Fri Aug 7-11 9:00am-12:00pm

CRN 30952 YT372-02 Ages 11-14
Mon-Fri Aug 7-11 1:00-4:00pm

Course Fee \$225

New! Game Labs

Ages 8-14

For serious gamers only! Beyond 2D and 3D, now it's time to take it to another level by competing with the world! Students will develop games with a partner using a unique game engine. Students will learn

advanced level editing, simple 3D modeling, intermediate event scripting and the impact of game play on user experience. Students will work in pairs or teams for most of the program. System Requirements for home experience: 2GB of RAM, and 2.0GHZ processor.

Instructor: Black Rocket Productions Staff

5 sessions

CRN 30953 YT373-01 Ages 8-10
Mon-Fri Aug 14-18 9:00am-12:00pm

CRN 30954 YT373-02 Ages 11-14
Mon-Fri Aug 14-18 1:00-4:00pm

Course Fee \$205

New! Toy Designers: Make Your First Toy

Ages 8-10

Calling all boys and girls who want to be toy designers of the future! In this class if you can dream it you can make it - create your first action figure, super hero, or make a new toy or figurine. By conceptualizing and designing their own 3D models, students will learn how to sculpt, texture, and render their first toy! No prior experience is necessary and 3D designs will be available on a password protected Black Rocket website to share with friends and family. **(3D prints may be purchased separately through an online provider.)** Students will work in pairs or teams for most of the program.

Instructor: Black Rocket Productions Staff

CRN 30955 YT374-01 5 sessions
Mon-Fri Aug 14-18 1:00-4:00pm

Course Fee \$205

New! Advanced Stop Motion Video

Ages 8-12

The class is for students who have had experience with stop motion video or Claymation that are looking to expand their skills. Emphasis will be put on creative story telling. Students will work in teams of two. The students will create their own movie but will be challenged to include different special effects, dialog, plotting devices to create a movie with a defined plot, a protagonist and antagonist, a conflict and its resolution. All supplies will be provided by Bricks 4 Kidz of Hunterdon-Somerset.

Instructor: Bricks 4 Kidz® Staff

CRN 30956 YT375-01 5 sessions
Mon-Fri July 31-Aug 4 1:00-4:00pm

Course Fee \$205

New! Intro. to Computer Animation

Ages 7-13

Ready, Set, Action! In this program, you will create your own stop motion animation videos, use a stop motion camera, and have fun designing and creating your own videos. Students learn the basic skills needed to create and animate.

Whether you are making a LEGO® brick film; animating in claymation or capturing a flower bloom using time-lapse photography, you can bring anything to life with computer animation. Students learn to copy, edit, move and delete animation frames. Jazz up your creations by learning to import music and sounds, adding special effects, and more. All students will save their movies to share.

Instructor: Super Science Programs for Kids Staff

5 sessions

CRN 30957 YS376-01 Ages 7-9
Mon-Fri July 17-21 9:00am-12:00pm

CRN 30958 YS376-02 Ages 10-13
Mon-Fri July 17-21 1:00-4:00pm

Course Fee \$190

ENRICHMENT**Workshop for Young Writers****Grades 1-8**

This class encourages writing as an art form in ways that are fun, yet engaging and effective in keeping with current research in the field of writing studies. All you need to bring is your imagination, and we provide the rest.

Instructor: Staff

10 sessions

Mon-Fri July 17-28 9:00am-12:00pm

Grade completed as of June 2017.

CRN 30959 YE018-01 Grades 1 & 2

CRN 30960 YE018-02 Grades 3, 4, & 5

CRN 30961 YE018-03 Grades 6, 7, & 8

Course Fee \$344

Chapter Book Authors**Ages 11-14**

This fun and very challenging camp will introduce the writer to the process of writing a short chapter book. The students study and examine short chapter books for children. They will create their own three chapter book.

Instructor: Anne Kistrup

CRN 30962 YE182-01 5 sessions

Mon-Fri June 26-30 9:00am-12:00pm

Course Fee \$190

Young Author's**Ages 9-12**

This challenging and fun filled class is a must for all those who enjoy writing. Students will study various children's book authors and illustrators. They will learn how to write a picture book.

Instructor: Anne Kistrup

CRN 30963 YE060-01 3 sessions

Wed-Fri July 5-7 9:00am-12:00pm

Course Fee \$115

Basic Script Writing**Ages 11-14**

This very interesting class will instruct the student in the script writing style. It will include upper and lower letter practice writing worksheets, and journal writing.

Instructor: Anne Kistrup

CRN YE246-01 3 sessions

Wed-Fri July 5-7 1:00-4:00pm

Course Fee \$115

Writing Skills**Ages 11-14**

This class helps students develop good writing and critical thinking skills. Good mechanics and effective word usage, sentence and paragraph structure are emphasized. Topics to be covered include: expository, persuasive, and narrative writing.

Instructor: Anne Kistrup

CRN 30964 YB746-01 5 sessions

Mon-Fri Aug 14-18 9:00am-12:00pm

Course Fee: \$190

Chess I (Newcomers/Beginners)

Ages 6-14

Learn the rules of this great centuries' old game! This class is for those who don't know anything about chess and for those beginners who know how to play a little, but want to learn what they should do to be a better chess player. Get a quick overview of how to win a chess match -- not just the checkmating of your opponent, but how to get to that point.

Worksheets, puzzles and class chess play will be used to teach you.

Instructor: Martin Sobin, Jersey Chess

CRN 30965 YE039-01 5 sessions
Mon-Fri June 26-30 9:00am-12:00pm

CRN 30966 YE039-02 5 sessions
Mon-Fri Aug 7-11 1:00-4:00pm
Course Fee \$190

Chess II (Advanced Beginners)

Ages 6-14

You know the rules of chess; **now it's time to learn how to beat your parents, friends, and schoolmates at the game!** Students should have either taken a beginner's course or have played sufficiently to have some idea of what you are trying to do and how to do it. Course topics will include checkmating positions, basic opening ideas and chess tactics. Short lectures, worksheets, chess puzzles, and class chess play will be used to help you become a better player. You will also learn about the active environment of kid's tournament chess, as well as the numerous resources that are available to help you learn and play the game.

Instructor: Martin Sobin, Jersey Chess

CRN 30967 YE040-01 3 sessions
Wed-Fri July 5-7 9:00am-12:00pm
Course Fee \$115

Chess III (Intermediate)

Ages 6-14

For students who have taken Chess II or are knowledgeable about the tactics covered in Chess II. This course will begin covering basic strategies, openings and endgames. An emphasis will be placed on competitive play with the students' notated games reviewed to see what they can do to improve. Short lectures, worksheets, and chess puzzles will also be used to teach the students.

Instructor: Martin Sobin, Jersey Chess

CRN 30968 YE116-01 5 sessions
Mon-Fri July 10-14 9:00am-12:00pm
Course Fee \$190

Advanced Beginner/Intermediate Player Chess Club

Ages 6-14

For advanced beginner to intermediate level players. If you know how to play, but want to be a better player, then this is the class for you. Really get into the game of chess with lots of game play. There will be some short training sessions and chess puzzles and worksheets, but the emphasis will be on playing and reviewing your games. There will be a "Club" tournament where you can win prizes and try to be the Class Champion. Get a head start on the new chess season starting in September -- the "Club" is where to do it!

Instructor: Martin Sobin, Jersey Chess

CRN 30969 YE220-01 5 sessions
Mon-Fri July 10-14 1:00-4:00pm

CRN 30970 YE220-02 5 sessions
Mon-Fri Aug 7-11 9:00am-12:00pm

CRN 30971 YE220-03 5 sessions
Mon-Fri Aug 14-18 1:00-4:00pm
Course Fee \$190

Boost Your Abilities with Puzzles, Games and Contests

Ages 8-14

Strap on your thinking caps and be ready for some fun challenges! You can become a champ at games like Scrabble, Boggle, Charades, Pictionary, Scattergories and Monopoly. Learn a few math tricks to make you a calculating wizard; and sharpen your logic skills to solve our Solitaire Battleship puzzles. You might even lead your team to victory with your knowledge, quickness of mind and talents! Studies show that these types of activities increase learning, teach discipline and develop social interaction -- but best of all, they are lots of fun.

Instructor: Martin Sobin, Jersey Chess

CRN 30972 YE061-01 5 sessions
Mon-Fri June 26-30 1:00-4:00pm
Course Fee \$190

CRN 30973 YE061-02 3 sessions
Wed-Fri July 5-7 1:00-4:00pm
Course Fee \$115

CRN 30974 YE061-03 5 sessions
Mon-Fri Aug 14-18 9:00am-12:00pm
Course Fee \$190

Juggling for All Skill Levels

Ages 8-16

Learn 2, 3 and 4 balls. Work on two person and passing tricks. Learn other props: like juggling sticks, spinning plates, poi, rings, clubs and lots of fun juggling games too. This course is best for absolute beginners and intermediate jugglers. Advanced jugglers are invited to attend as well.

Instructor: Juggling Team Staff

CRN 30975 YE117-01 5 sessions
Mon-Fri July 24-28 9:00-12:00pm
Course Fee \$190

Speak Out! Public Speaking for Kids

Ages 9-12

Learn simple ways to become a better speaker. **Speak Out! Public Speaking for Kids** introduces students to easy techniques for dealing with anxiety, organizing thoughts and listening. This workshop is highly interactive. Each student participates in various impromptu and group storytelling exercises, studying the art of persuasion, delivery methods and effective writing. The week culminates in a prepared 3-5 minute speech. New and repeat students are welcomed.

Instructor: Carolyn Kinebrew-Bosa, RVCC Faculty

CRN 30976 YE012-01 5 sessions
Mon-Fri July 24-28 9:00am-12:00pm

CRN 30977 YE012-02 5 sessions
Mon-Fri Aug 14-18 1:00-4:00pm
Course Fee: \$180

Camp Zombie

Ages 7-12

Zombies - You can hear every guttural breath, every rattling groan - they're everywhere and coming to eat your brains! Enter the world of the undead and become an expert on their evil and disgusting ways. Learn the basics of Zombie defense at the only class that will give you all the tools you need to survive a zombie attack. Do you have what it takes?

Instructor: FYI Creations Staff

CRN 31093 YE201-01 5 sessions
Mon-Fri Aug 14-18 9:00am-12:00pm
Course Fee \$190

Girls Rule!

Ages 7-12

Girls rule in this stylish get-together where everyone is sure to have a blast! Join us in this fun-filled class of glitz and glamour where it's great to be a girl. Students can look forward to relaxing on "Salon 'N' Spa Day" where they will be pampered and do-it-yourself facials and manicures. The talented ladies from *FYI Creations* will also offer a variety of very fancy projects to craft, including makeup bags, glitter body gel, journal covers, jewelry and more.

Instructor: FYI Creations Staff

CRN 30978 YE101-01 5 sessions
Mon-Fri July 10-14 9:00am-12:00pm
Course Fee \$190

Duct Tape Divas

Ages 7-12

Duct Tape isn't just for dad anymore! Join the latest crafting craze that's sweeping the nation! Be the envy of your friends as you design creative fashions and crafts that are sure to bring out your inner diva. From hot pink zebra stripes to funky tie-dyes, there's no limit to what duct tape can do!

Instructor: FYI Creations Staff

CRN 30979 YE184-01 5 sessions
Mon-Fri July 10-14 1:00-4:00pm
Course Fee \$190

Teaching 101

Ages 7-12

Learn how to become a teacher in this fun and educational workshop designed to bring out the inner-teachers in all students. Learn how to decorate a classroom, develop exciting lesson plans, and maintain a grade book in this workshop where children are the teachers! From creating graphic organizers to grading papers, this course will provide children with everything necessary to become highly qualified instructors. This course is a definite A+!

Instructor: FYI Creations Staff

CRN 30980 YE103-01 5 sessions
Mon-Fri July 17-21 9:00am-12:00pm
Course Fee \$190

New! MakerSpace

Ages 7-12

Critical thinking, problem-solving, and engineering skills can help all kids get ahead in today's world. How can we encourage these 21st century skills? Through hands-on exploration, tinkering, and play! In this week-long class, kids will come together to create, invent, and design using a variety of everyday items and household materials. Each day, students are introduced to new makerspace projects that encourage creative thinking and hands-on inventing. The only limits to what they can do? Their own imaginations!

Instructor: FYI Creations Staff

CRN 30981 YE282-01 5 sessions
Mon-Fri July 31-Aug 4 9:00am-12:00pm
Course Fee \$190

SAT Accelerated Test Prep

Entering Grades 11 & 12

This course offers an accelerated and comprehensive approach to SAT standardized test preparation that is remarkable for its scope and length. The goal is not only to prepare students for the SAT, but perhaps more importantly, to impart

enhanced critical thinking, academic skills, test-taking strategies and motivation that serve as a catalyst for improved academic performance.

Instructor: Andrew Becker

CRN 30982 YX212-01 5 sessions
Mon-Fri Aug 14-18 9:00am-4:00pm
Course Fee Total: \$288

Reading Success for Primary Learners

Ages 6-8

This course will focus on mastery of phonics skills, comprehension, and reading fluency. This course is designed for students with reading difficulties.

Instructor: Elite Aspirations Staff

CRN 30983 YE252-01 10 sessions
Mon-Fri July 24-Aug 4 9:00am-12:00pm
Course Fee \$220

Elite Writers Club

Ages 8-10

Where do authors get their ideas? How does a science fiction story differ from historical fiction? What elements do all stories need? Come have fun and gain writing experience creating new characters and stories of your own. The class will culminate with a reading of original stories at our "Elite Young Authors Roundtable".

Instructor: Elite Aspirations Staff

CRN 30984 YE270-01 10 sessions
Mon-Fri July 24-Aug 4 1:00-4:00pm
Course Fee \$220

Math Magicians: Math Problem Solving Strategies

Ages 8-10

Does your child enjoy math competitions? This course will incorporate learning with fun problem solving activities. Students will also be able to compete for prizes!

Instructor: Elite Aspirations Staff

CRN 30985 YE250-01 10 sessions
Mon-Fri Aug 7-18 9:00am-12:00pm
Course Fee \$220

The Art of Debate

Ages 8-10

This course is designed to increase student confidence by teaching debating strategies. Students will participate in fun mock trials and discuss the fundamentals of persuasive writing.

Instructor: Elite Aspirations Staff

CRN 30986 YE251-01 10 sessions
Mon-Fri Aug 7-18 1:00-4:00pm
Course Fee \$220

The Money Camp

Ages 13-17

Teach students about money and wealth building concepts, good and bad credit, wants versus needs, to help them begin thinking like entrepreneurs and introduce a simple money management system.

Instructor: Kenneth J. Carter

CRN 30987 YE125-01 3 sessions
Tue-Thu July 11-13 9:00am-4:00pm

CRN 30988 YE125-02 3 sessions
Tue-Thu Aug 8-10 9:00am-4:00pm

Course Fee \$279

Introduction to Entrepreneurship**Ages 13-17**

The importance of entrepreneurship education and practice cannot be ignored as a vehicle to prepare future business and industry leaders for the opportunities in the 21st century. This course will teach students how to begin thinking more independently about starting and owning the business they work for, rather than being at the mercy of an employer, who will never pay them what their worth! Find a need and fill it.... be an entrepreneur.

Instructor: Ken Carter

CRN 30989 YE230-01 3 sessions
Tue-Thu Aug 1-3 9:00am-4:00pm
Course Fee: \$279

Jewelry Design**Ages 8-12**

In this class, students will learn how to create unique one of a kind jewelry pieces using, pliers, crimpers, wire, and novelty findings. They will make bracelets, earrings and necklaces for themselves friends and family. No stringing allowed! Students will learn basic principles of design and how to balance appropriate beads for unique beautiful pieces of jewelry. All materials are supplied.

Instructor: So You Sewing & Design Studio Staff

CRN 30990 YE272-01 5 sessions
Mon-Fri Aug 7-11 9:00am-12:00pm
Course Fee: \$190

Learn to Sew**Ages 8-12**

In this class students learn how to sew using a commercial sewing pattern. Students begin by sewing a pair of pull on pajama shorts, followed by a flirty summer skirt and complete this fun filled class by sewing a tote bag! All materials are included in the fee. Students use full size sewing machines.

Instructor: So You Sewing & Design Studio Staff

CRN 30991 YE219-01 5 sessions
Mon-Fri Aug 7-11 1:00-4:00pm
Course Fee: \$190

Design Diva**Ages 11-15**

Students learn foundational design principals, color theory, fabric science, fashion illustration, simple patternmaking and of course garment sewing! All students will design, create and sew their own designs! And on Friday afternoon we will have a runway fashion show, where our students become models and walk the runway with their new creations! No experience necessary. This is an amazing week! You will see a new fashion designer emerge from someone who began the week with limited sewing or design knowledge! Don't miss this week!

Instructor: So You Sewing & Design Studio Staff

CRN 30992 YE231-01 5 sessions
Mon-Fri Aug 14-18 9:00am-4:00pm
Course Fee: \$375

New! Manners and Etiquette 101/People Skills**Ages 6-17**

Students will exercise good people skills: when it comes to listening, communicate, problem solve, and exercise empathy and good teamwork and sportsmanship. There is so much more to be learned, than Just...PLEASE and THANK YOU!

Instructor: Sara Doctofsky

5 sessions
CRN 31083 YE283-01 Ages 6-12
Mon-Fri July 31-Aug 4 9:00am-12:00pm

CRN 31084 YE283-02 Ages 13-17
Mon-Fri Aug 7-11 1:00-4:00pm
Course Fee: \$180

New! Goal Setting and DREAM/Vision Boards

Ages 7-17

Students will master the art of setting goals, embrace action plans, set priorities and other skills it take to achieving goals. By combining goal setting with Dream/vision boards, it is a fun and visual way for students to express their dreams and inspire them to pursue them... Make your very own dream/vision boards to display. If you can DREAM it YOU can Achieve it!

Instructor: Sara Doctofsky

5 sessions

CRN 31085 YE284-01 Ages 7-12
Mon-Fri Aug 14-18 9:00am-12:00pm

CRN 31086 YE284-02 Ages 13-17
Mon-Fri Aug 14-18 1:00-4:00pm
Course Fee: \$180

New! Focused, Intelligent Girls Have Tenacity: F.I.G.H.T. Like A Girl

Ages 13-17

The objective of the workshop is to reinforce the importance of establishing S.M.A.R.T. goals, building self-esteem, projecting confidence and making wise life decisions. The program culminates with each participant creating a vision board for their lives. Girls that successfully manage the above critical areas of their lives typically have greater success obtaining their desired academic and career objectives. These attributes are the foundation for developing into powerful vs. powerless young women.

Instructor: Jacqueline Miller

CRN 31094 YE285-01 5 sessions
Mon-Fri June 26-30 1:00-4:00pm

CRN 31095 YE285-02 5 sessions
Mon-Fri July 17-21 1:00-4:00pm
Course Fee: \$225

FINE & PERFORMING ARTS

Acting for the Camera

Ages 8-15

This class is for the aspiring young ‘stars’ in your household. It is here they will learn real auditioning skills by working with scripts for commercials and film readings. Your child will learn how to characterize and follow direction, block for camera and read with their ‘co-stars’. Improvisation and ad-libbing (off the script) will be taught as a basis of personalizing characters and trusting instincts. One of the quickest ways to gain experience in this industry is by doing ‘extra’ work otherwise known as a “Background Artists.” Included in this class is a list of legitimate talent agencies and terminology of the business. This class is designed by casting director, Kathy Wickline, CSA (www.wicklinecasting.com) who holds over 10,000 casting credits in film, commercials and TV. All original footage will be sent to a professional editor for creation of a USB. Orders will be taken for purchase; DVD Rate \$37.99 includes shipping and handling.

Instructor: Wickline Casting Staff

CRN 30993 YA152-01 5 sessions
Mon-Fri July 10-14 9:00am-4:00pm

CRN 30994 YA152-02 5 sessions
Mon-Fri July 31-Aug 4 9:00am-4:00pm
Course Fee: \$325

Film & TV**Ages 11-16**

This is Wickline Casting's original camp that started 16 years ago. Each day is designed so children work as cast and crew teams. Students learn basic levels of acting, directing and operating the camera. Script writing, storyboarding and improvisation will also be introduced. Kids work on lots of cool projects like commercials, film scenes, music videos and public service announcements. Each day is different as students create their very own original projects as they learn the basics of the biz. All original footage will be sent to a professional editor for creation of a DVD. Orders will be taken for purchase; USB Rate \$37.99 includes shipping and handling.

Instructor: Wickline Casting Staff

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| CRN 30995 | YA161-01 | 5 sessions |
| Mon-Fri | June 26-30 | 9:00am-4:00pm |

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| CRN 30996 | YA161-02 | 5 sessions |
| Mon-Fri | July 17-21 | 9:00am-4:00pm |

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| CRN 30997 | YA161-03 | 5 sessions |
| Mon-Fri | Aug 14-18 | 9:00am-4:00pm |

Course Fee \$325

Multi-Media Painting**Ages 6-12**

Students enjoy investigating different approaches to painting with acrylics, tempera and watercolor as they discover new possibilities and achieve creation of mixed media works of art. Themes and subject matter are suggested, yet learners are encouraged to develop their own ideas while utilizing the materials and guidelines provided.

Instructor: Art for All Staff

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| CRN 30998 | YA110-01 | 5 sessions |
| Mon-Fri | July 24-28 | 9:00am-12:00pm |

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| CRN 3099 | YA110-02 | 5 sessions |
| Mon-Fri | Aug 7-11 | 9:00am-12:00pm |

Course Fee \$180

Fun Making Sculptures**Ages 6-12**

Learners explore construction, form, function and process as they create each work of art, choosing a type of work, subject matter and materials. Students explore the possibilities within the process and ideas they develop. This creative, flexible class strengthens decision-making skills, aesthetic awareness and understanding of the many purposes of 3-D artwork.

Instructor: Art for All Staff

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| CRN 31000 | YA111-01 | 5 sessions |
| Mon-Fri | July 24-28 | 1:00-4:00pm |

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| CRN 31001 | YA111-02 | 5 sessions |
| Mon-Fri | Aug 7-11 | 1:00-4:00pm |

Course Fee \$180

Music and Voice Production**Ages 12-17**

Does your child dream of what it's like to be behind the microphone, performing like their favorite singer? Well, here's their chance! This one-of-a-kind class designed by a GRAMMY award winning music producer and two-time Parent's Choice Gold winner offers students an actual recording studio experience by introducing them to the amazing world of the music industry. Students will have a blast developing their skills in Songwriting, Music Recording, Voice-overs and Audio Equipment Operation. Students can work interchangeably as talent and/or crew, behind the scenes or behind the

microphone. They'll learn vocal warm up routines, perform voice-overs and TV/radio announcements, have a blast singing karaoke to their favorite songs, and the best part is they will have the unique opportunity to create their very own song from start to finish and record it live! It isn't often that a child can say they had a hand in fully producing a song from beginning to end and have a copy of that song to share with friends and family for years to come. Students will receive one professionally edited audio CD that contains all of their camp recordings for the week. This CD is included in the class fee.

Instructor: East Coast Recording Company Staff
CRN 31002 YA728-01 5 sessions
Mon-Fri July 31-Aug 4 9:00am-4:00pm
Course Fee \$344

New! POP Star Singing

Ages 6-10

If your child enjoys singing and performing, then this is the class for your up-and-coming superstar! Not only will your child have a blast singing and performing their favorite karaoke songs, but we will also provide silly dress ups and props so your child can perform and look like their favorite pop star. On the final day of class, all performances will be video-recorded and made available online for you to view and enjoy. While having fun, students also learn basic vocal warm-ups and performance tips that help build their confidence. Students also play singing games similar to lip-sync competition and Name That Tune. This is a super-fun class! Some dress ups and props are provided, however, students are welcome to bring their own favorite costumes as well!

Instructor: East Coast Recording Company Staff
CRN 31003 YA753-01 5 sessions
Mon-Fri Aug 7-11 9:00am-12:00pm
Course Fee \$190

Creative Kids

Entering Grades K-5

During our Creative Kids Summer Program, participants will have the chance to explore a wide variety of tools and materials as they paint with watercolors and acrylics, sketch with charcoal and oil pastels, sculpt with clay and make 3D art, make home-made jewelry or key-chains, and have free exploration time to work on projects of their choice! **ALL NEW PROJECTS FOR RETURNING PARTICIPANTS!**

Instructor: Smartycat Kids Staff
CRN 31004 YA744-01 5 sessions
Mon-Fri Aug 14-18 1:00-4:00pm
Course Fee \$205

New! Art Around the World

Ages 8-10

This fun class introduces students to traditional art forms from several cultures from around the world. Students get to bring home their projects.

Instructor: Elite Aspirations Staff
CRN 31005 YA754-01 10 sessions
Mon-Fri July 10-21 9:00am-12:00pm
Course Fee \$220

New! Creative Expressions

Ages 8-10

This course taps into learners' multiple intelligences while we explore their creative sides. This course delivers a balance of focus and fun that combines the art of writing, movement and individual creativity. The final class results in a fun performance that our students write and direct.

Instructor: Elite Aspirations Staff
CRN 31006 YA755-01 10 sessions
Mon-Fri July 10-21 1:00-4:00pm
Course Fee \$220

SCIENCES**Science and Technology Career Exploration Workshop****Entering Grades 10-12**

This two week Science and Technology program provides a hands-on, relevant learning experience for students. Students learn about careers in Science and Technology while having fun as they create real world projects. College instructors from the areas of Computer Science, Engineering and Advanced Manufacturing will provide students with an exciting lab experience. Our instructors will engage students while promoting critical thinking, creativity, problem solving, and collaboration skills.

Prerequisite: A letter of recommendation from school principal, counselor, or current Science Teacher.

Instructor: RVCC Faculty

CRN 31007 YS855-01 10 sessions

Mon-Fri July 10-21 9:00am-4:00pm

Course Fee \$575

Follow Me Robot**Ages 7-12**

How would you like to build a robot that has four built-in microphones? It will detect the sound source and in turn it will move and turn accordingly. It is your own robot to build and take home. Wow! It starts flashing and plays Do-Re-Me. Make it move the way you want it to move. It is so smart. It will move in its own routine if it does not get a signal in 1 minute. It will go to sleep if you do not issue any commands in 90 seconds. However, you can wake it up. Learn about the different gears and sensors as you build it. Get to build other robots working in groups. Join in our Sumo wrestling and obstacle course events with what you have built.

Instructor: Sciensational Workshop for Kids, Inc. Staff

CRN 31008 YS745-01 5 sessions

Mon-Fri July 17-21 9:00am-12:00pm

Course Fee \$202

Magnetic Levitation**Ages 7-12**

Build your own "futuristic Maglev" car to race and take home. Have fun building it and learning how it operates!. Learn about the relationship between magnetism and electricity. Build and take home a simple maglev track, electromagnet and the world's simplest motor. Make your own compass and take part in many other magnificent magnetic activities!

Instructor: Sciensational Workshop for Kids, Inc. Staff

CRN 31009 YS856-01 5 sessions

Mon-Fri July 31-Aug 4 9:00am-12:00pm

Course Fee \$202

Hovercraft Design Your Own Vehicle-Egg Drop**Ages 6-11**

Do you want to design and build things that you create- not just a model you purchase? Well this is the place for you. Build and keep an air powered Hover Craft. You make it defy gravity. Once it's up and moving, and then using your creativity, controls its direction. Get to build and take home your own car. The purpose is to build a super car powered by more than one source of energy. This can be one crazy looking vehicle. We provide you with many materials for that dynamic vehicle that you will build. Also get to build an Egg Drop Car. The purpose is to build a gravity vehicle that can cushion a raw egg as the car holding the egg is dropped from a high height. We provide you with the material to cushion the fall. You have to be creative. In these three challenges in one workshop, you will learn about Laws of Motion, Energy, Air Pressure, Friction, Lift, Speed and Acceleration. It's never too young to learn and have fun in a Sciensational hands on way.

Instructor: Sciensational Workshop for Kids, Inc. Staff

CRN 31010 YS733-01 5 sessions

Mon-Fri Aug 7-11 9:00am-12:00pm

Course Fee \$202

New! STEM Inventions with LittleBits**Ages 7-12**

STEM stands for Science, Technology, Engineering, and Math. In this invention workshop, students enhance their skills with a great new system of discovery called LittleBits. LittleBits is a platform of easy-to-use electronic building blocks that empower students to invent anything, from their own remote controlled car, to a smart home device. The Bits snap together with magnets, no soldering, no wiring, and no programming is needed. Students will build and invent their own projects. All students take home an electronic project.

Instructor: Super Science Programs for Kids Staff

5 sessions

CRN 31011 YS870-01 Ages 9-12
Mon-Fri July 10-14 1:00-4:00pm

CRN 31012 YS870-02 Ages 7-12
Mon-Fri July 31-Aug 4 9:00am-12:00pm
Course Fee \$190

New! Computer Programming with Ozobot and SCRATCH**Ages 6-12**

In this exciting program, robotics and coding will become elementary! Have fun expanding your horizons with a learning toy that opens the doors of computer science, STEM education, robotics and coding with simple color-coded commands and "Ozoblocky," a coding language powered by Google's Blockly program. Students also learn to program with SCRATCH, MIT's popular programming language! All students take home a Hexbug robotic project.

Instructor: Super Science Programs for Kids Staff

5 sessions

CRN 31013 YS871-01 Ages 6-9
Mon-Fri July 10-14 1:00-4:00pm

CRN 31014 YS871-01 Ages 9-12
Mon-Fri July 31-Aug 4 1:00-4:00pm
Course Fee \$190

New! Robotic Fun**Ages 6-9**

Have fun building and creating using your imagination. Students construct a wide range of robot projects throughout the week. Projects include constructing a Battle-Bot from our huge Robotix modular collection, participating in our robot tug-o-war, Olympic competition, soccer match, and more. Students learn engineering principles in a fun, hands-on atmosphere. This class focuses on building modular robots from your imagination. Coding is not a focus in this class. All students will take home a Hexbug robot as part of this class.

Instructor: Super Science Programs for Kids Staff

CRN 31015 YS877-01 5 sessions
Mon-Fri July 17-21 1:00-4:00pm
Course Fee \$190

New! STEM Challenges**Ages 6-13**

In this engineering class, students have fun integrating Science, Technology, Engineering, and Mathematics by building and designing a wide range of gadgets, inventive machines, towers, crazy contraptions, and more. Projects include: The Great Tower Challenge, the Standing Cup Pyramid Challenge, Wooden Coaster Challenge, Structural Engineering Challenge, Magnificent Marble Machine, and a host of other fun contests designed to bring out the engineer in you!

Instructor: Super Science Programs for Kids Staff

5 sessions

CRN 31016 YS873-01 Ages 6-9
Mon-Fri July 10-14 9:00am-12:00pm

CRN 31017 YS873-02 Ages 9-13
Mon-Fri July 17-21 9:00am-12:00pm

CRN 31018 YS873-03 Ages 6-9
Mon-Fri July 31-Aug 4 9:00am-12:00pm
Course Fee \$190

New! Intro. to VEX IQ Robotics

Ages 9-14

Have fun building, designing, and programming robots with the all-new VEX IQ robotic system and curriculum. Vex has taken its high school program which is used by over 10,000 teams around the world to learn robotics, and adapted it to meet elementary and middle-school aged children. Starter projects will include Armbot IQ, Clawbot IQ, Ike, and V-Rex! Have fun working with IQ Sensors that allow for autonomous and hybrid control of VEX IQ robots and other creations. VEX IQ Sensors connect to a robot or mechanism quickly and are easily programmed to help measure time, position distance, rotation, sense touch, provide feedback, allow for human-to-robot interaction, and much more.

Instructor: Super Science Programs for Kids Staff

CRN 31019 YS843-01 5 sessions
Mon-Fri Aug 7-11 1:00-4:00pm
Course Fee \$190

Lego WeDo Robotics 1.0 and 2.0

Ages 6-9

Students build Lego ® models featuring working motors and sensors, program their models on laptop computers, and participate in new unique WeDo challenges. Students develop their skills in Science, Technology, Engineering, and Mathematics. Students use simple drag and drop software and a lap top computer to actually learn how to program robots made from Legos ®. This program offers both Lego 1.2 and all new Lego 2.0 projects LEGO® Education WeDo 2.0 makes elementary science come to life through hands-on tasks, real-world projects, and relevant technology that engages students.

Instructor: Super Science Programs for Kids Staff

CRN 31020 YS872-01 5 sessions
Mon-Fri July 24-28 9:00am-12:00pm
Course Fee \$190

Lego Architect & Engineering

Ages 9-12

Architecture and engineering are the focus of this program. You will work to design straw 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, London Bridge, 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.

Instructor: Super Science Programs for Kids Staff

CRN 31021 YS735-01 5 sessions
Mon-Fri June 26-30 9:00am-12:00pm

CRN 31022 YS735-02 5 sessions
Mon-Fri Aug 14-18 9:00am-12:00pm
Course Fee \$190

Junior Physicians**Ages 7-12**

Discover the anatomy of the world's most complicated system - the human body! In this program, kids will find out what it's like to journey through the human body. Explore the science behind blood, bones, how a model of the human body works, and more. Participants will test for blood types, make a map of their tongue, and perform simulated heart and brain surgery, and more.

Instructor: Super Science Programs for Kids Staff

CRN 31023 YS844-01 5 sessions

Mon-Fri Aug 7-11 9:00am-12:00pm

Course Fee \$190

Lego Star Wars & Motorized Machines**Ages 7-12**

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 including AT-ST, Rebel U-Wing Fighter, Imperial Shuttle, Imperial Assault Hovercraft, AT-TE, Tie Striker, X-Wing Fighter, and more. Students also build a wide assortment of non-Star Wars motorized LEGO Education technic machines and create their own projects that illustrate science concepts.

Instructor: Super Science Programs for Kids Staff

CRN 31024 YS679-01 5 sessions

Mon-Fri July 24-28 1:00-4:00pm

CRN 31025 YS679-02 5 sessions

Mon-Fri Aug 14-18 1:00-4:00pm

Course Fee \$190

Amusement Park Physics**Ages 9-12**

Have you ever wondered how they design and build those crazy rollercoasters and other amusement park rides? Join us and learn about friction, gravity, momentum, velocity, and other effects of force and motion as they relate to theme park rides. We'll design, construct, and test loop-the-loops, marble catchers, ball machines, Ferris wheels, swinging amusement rides, and more. This is the way to experiment and build as you learn physics concepts in a fun and activity-based atmosphere!

Instructor: Super Science Programs for Kids Staff

CRN 31080 YS642-01 5 sessions

Mon-Fri July 10-14 9:00am-12:00pm

Course Fee \$190

Chemical Magic Plus**Ages 6-12**

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 style 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 the bottle, and more. All students will take home a mini- chemistry kit & recipe booklet. Please bring a 100% white cotton T- shirt to the second class.

Instructor: Super Science Programs for Kids Staff

5 sessions

CRN 31026 YS623-01 Ages 6-9

Mon-Fri June 26-30 9:00am-12:00pm

CRN 31027 YS623-02 Ages 10-12

Mon-Fri June 26-30 1:00-4:00pm

Course Fee \$190

Diggin' For Dinos, Rocking Rocks & Crystal Creations**Ages 6-11**

Young scientists will discover the exciting science of archaeology and paleontology as they excavate and assemble complete skeletal replicas from simulated "fossilized" rock. Dig for Tyrannosaurus Rex, Triceratops, Brachiosaurs, and more. Make fossilized plaster replicas of dinosaur teeth, claws, trilobites, and ancient snails. Sort, classify, and take home a variety of shark teeth. Unearth some fascinating facts about rocks, minerals, and crystals. Take home a unique rock and mineral collection, a rock and mineral book, unearthed treasures, fossilized shark teeth, and crystals.

Instructor: Super Science Programs for Kids Staff

CRN 31028 YS624-01 5 sessions
Mon-Fri June 26-30 1:00-4:00pmCRN 31029 YS624-02 5 sessions
Mon-Fri July 31-Aug 4 1:00-4:00pm
Course Fee \$190**Make & Take****Ages 6-12**

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.

Instructor: Super Science Programs for Kids Staff

5 sessions

CRN 31030 YS632-01 Ages 6-9
Mon-Fri July 24-28 9:00am-12:00pmCRN 31031 YS632-02 Ages 6-12
Mon-Fri Aug 14-18 9:00am-12:00pm
Course Fee \$190**Space: Infiniti & Beyond****Ages 7-12**

Students explore the mysteries of the solar system and the science behind air & space travel. Children discover not only how astronauts get into space, but also how they live and work once they get there. In this advance space program, we will investigate unique flying machines, including building balloon-copters, boomerangs and a mini hovercraft as take home projects for the children. Most importantly, they learn first-hand about the aerodynamic properties of flying machines by building their own Estes® model rockets as well as an intermediate level Estes™ Skywinder rocket! Once the rockets are completed, children will blast off on a real Mad Science space mission Live Rocket Launches! This Class is Out of this World!

Instructor: Mad Science Staff

CRN 31032 YS718-01 5 sessions
Mon-Fri July 31-Aug 4 9:00am-12:00pm
Course Fee \$205**Secret Agent Lab****Ages 7-12**

Become a Mad Science - Secret Agent and take a fascinating journey into the world of spies, detection and classified information! Learn code language to send secret messages as part of your classified mission. Go undercover and decode messages from other agents using your top secret clearance. Join the Mad Science Bureau of Investigation to gain observational skills that are necessary for the job. Take home projects include a detective kit, secret decoder, and much more! This Class is 00-Awesome!

20 www.raritanval.edu/youth | youth@raritanval.edu | 908-526-1200 x 8404

Instructor: Mad Science Staff

CRN 31033 YS717-01 5 sessions
Mon-Fri July 24-28 9:00am-12:00pm
Course Fee \$205

Eureka! Launching with Legends

Ages 7-12

Anyone can be an inventor! Discover the work of da Vinci, Edison, Tesla, and Benjamin Franklin and use what you learn to invent solutions to everyday problems. Prepare patent proposals, receive a patent certificate, build your own catapult, and even launch projectiles off a large trebuchet! Budding inventors bring home a model catapult, a mysterious spinning stick, a helicopter, and countless other cool inventions. Come Open daVinci's toy box with Us!

Instructor: Mad Science Staff

CRN 31034 YS777-01 5 sessions
Mon-Fri Aug 7-11 9:00am-12:00pm
Course Fee \$205

Survival! Call of the Wild

Ages 7-12

Junior Scientists will get in touch with nature as they learn about how changes in the wind, water, and temperature can affect the Earth's inhabitants. As children learn about how animals and insects adapt to life on our planet, they'll flow through the food chain and discover how predators and prey interact with each other. Students will build a real birdhouse to take home and will have creepy-crawly fun building a bughouse and searching for new tenants! Creating animal tracks out of Plaster of Paris and learning about scent trails will encourage children to take a walk on the wild side!

Instructor: Mad Science Staff

CRN 31035 YS644-01 5 sessions
Mon-Fri July 24-28 1:00-4:00pm
Course Fee \$205

Red Hot Robots

Ages 7-12

Spend this summer playing with our super cool *Red-Hot Robots!* Discover the world of robots as we investigate the differences between humans and their robotic counterparts - Students will learn how robots use infrared and sensors to discover their environment. Invent your own robot designs using recycled materials. Finally - We use hands-on skills to a Robot that you Take Home to "LIVE" with You!

Instructor: Mad Science Staff

CRN 31036 YS716-01 5 sessions
Mon-Fri June 26-30 9:00am-12:00pm
Course Fee \$218

Junior Physicians Team

Ages 7-12

Is there a Doctor in the House! Join us for an incredible journey in to the world's most sophisticated scientific system - the human body. Kids will explore the science behind cells, organs, muscles and bones through fun, hands-on activities. Cool experiments will help students understand more about their senses, brains, breathing, circulation and digestion by creating a simulated stomach, building simple stethoscopes and lung models, assembling a model skeleton and much more! This Class is Spine Tingling!

Instructor: Mad Science Staff

CRN 31037 YS737-01 5 sessions
Mon-Fri July 10-14 1:00-4:00pm
Course Fee \$205

Radical Reactions & Detective Science

Ages 7-12

Students will have tons of fun mixing up potions and experimenting with all kinds of chemical reactions! Our young chemists will Grow Crystals, Create Sidewalk Chalk, and make chromatography T-Shirts to take home. Students will also become science sleuths as they investigate how chemistry provides evidence at the scene of a crime. During hands-on detective work, children will gather & test “crime scene” clues, make & analyze their own fingerprints, so much more! Become a Junior Chemist in Class!

Instructor: Mad Science Staff

CRN 31038 YS637-01 5 sessions
Mon-Fri July 17-21 9:00am-12:00pm
Course Fee \$205

New! Brixology

Ages 7-12

This Brixology Class sets the foundation for our next generation of makers! Children learn about different types of engineering and then team up to construct a different engineering-themed **project** using MAD SCIENCE EXCLUSIVE LEGO® bricks! They learn about aerospace engineering while assembling a space station. They explore mechanical engineering as they build boats and vehicles. That's not all – from carnival rides to drawing machines, mechanical animals to truss bridges, your future engineer will build upon their creativity to solve real-world design challenges, while developing their problem-solving and team-building skills. Let the tinkering and building begin!”

Instructor: Mad Science Staff

CRN 31039 YS878-01 5 sessions
Mon-Fri July 31-Aug 4 1:00-4:00pm
Course Fee \$205

Junior Scientists

Entering Grades K-5

This program is all about showing participants how fun exploring science can be! We’ll work on projects and experiments such as creating safe and fun chemical reactions, designing and constructing structures and machines, exploring physical forces, tinkering with technology, and exploring biology and green science! ALL NEW PROJECTS FOR RETURNING PARTICIPANTS!

Instructor: Smartycat Kids Staff

CRN 31040 YS764-01 5 sessions
Mon-Fri July 10-14 1:00-4:00pm

CRN 31041 YS764-02 5 sessions
Mon-Fri Aug 7-11 1:00-4:00pm
Course Fee \$205

Technology and Engineering Program

Entering Grades 1-6

Enjoy a week full of tinkering with technology and designing and constructing engineering projects! We’ll race RC vehicles, create circuits, explore solar power, and program robots. Team projects will challenge participants to design, construct, and test structures or machines that can perform specific tasks. ALL NEW PROJECTS FOR RETURNING PARTICIPANTS!

Instructor: Smartycat Kids Staff

CRN 31042 YS763-01 5 sessions
Mon-Fri July 31-Aug 4 1:00-4:00pm
Course Fee \$205

New! Inventor's Workshop**Ages 5-7**

We have opened up the workshop for a week of fun, creativity, and of course engineering! Over the course of a week, students invent new machines and explore creative design solutions using the Engineering Design Process. Discover how a wind-up toy works and design your own drawing robot inside the Engineering for Kids Inventor's Workshop.

Instructor: Engineering for Kids Staff

CRN 31043 YS879-01 5 sessions

Mon-Fri July 24-28 9:00am-12:00pm

Course Fee \$192

New! Twisted Fairy Tales**Ages 5-7**

Ever wonder how we got to the Happily Ever After in traditional fairy tales? Students explore a few fairy tales from different points of view and engage in activities to investigate solutions for each fairy tale's obstacles. In the Twisted Fairy Tales Program, we will design a getaway vehicle for the heroine from Kate and the Beanstalk, help The Three Billy Goats Fluff devise a method to cross the bridge quietly and not wake the Troll, and construct an edible reef entirely from candy to protect The Three Little Fish from the Big Bad Shark! Join us as we explore the Engineering of Fairy Tales!

Instructor: Engineering for Kids Staff

CRN 31044 YS880-01 5 sessions

Mon-Fri July 24-28 1:00-4:00pm

Course Fee \$192

Camp Kelvin**Ages 5-7**

Pack your bags and lace up your hiking boots engineers, because at Camp Kelvin, we are engineering designs to help us explore the great outdoors. Build a tent, design waterproof clothing, engineer your own survival pack and more! Join us for a week of fun and adventure where everyone goes home a happy camper!

Instructor: Engineering for Kids Staff

CRN 31045 YS845-01 5 sessions

Mon-Fri July 31-Aug 4 9:00am-12:00pm

Course Fee \$192

New! Junior Engineering-Wings, Wheels and Sails**Ages 5-7**

Everyone has to travel, and engineers are involved in all the steps of designing different modes of transportation, as well as inventing and designing tools that aid in travel. Everyone's travel needs are different, whether they need to walk around their local community to do errands, or they need to be half way across the world by evening! During this program, students get their passports and travel to a new country every day by a different means! They engineer their mode of transportation or tool to aid in transportation daily to get to their destination country.

Instructor: Engineering for Kids Staff

CRN 31046 YS881-01 5 sessions

Mon-Fri July 31-Aug 4 1:00-4:00pm

Course Fee \$192

Mechatronics Masterminds**Ages 8-12**

Eureka! Kelvin has finally done it! He has created a perpetual motion machine. But what is this? An evil genius has stolen Kelvin's masterpiece - oh no! Kelvin is now looking for a trustworthy team to develop and test new gadgets that will help him find and safeguard his perpetual motion machine. Explore the basics of mechatronics engineering and logic based programming as students use LittleBits® and work together to design gadgets, tools, and machines that will help Kelvin get out of any sticky situation he may encounter.

Instructor: Engineering for Kids Staff

CRN 31047 YS848-01 5 sessions

Mon-Fri Aug 7-11 9:00am-12:00pm

Course Fee \$192

Amazing Race**Ages 8-12**

Pack your bags engineers and get ready for an adventure! Team up with others for a wild ride across the globe in our Amazing Race. During this program, students carefully engineer designs that traverse the most treacherous terrain, brave the stormiest seas, and soar above the clouds. Can your team make it all the way around the world in just a few days? Grab your passports and catch a flight straight to Engineering for Kids for a truly unbelievable journey!

Instructor: Engineering for Kids Staff

CRN 31048 YS787-01 5 sessions

Mon-Fri Aug 7-11 1:00-4:00pm

Course Fee \$192

Design the Future**Ages 8-12**

What does the future look like? Join us as we embark on an odyssey to explore the future of transportation, manufacturing and structural. Let's take a look at the innovations of today and apply them to create the designs of tomorrow as we explore ways to harness clean energy and house a growing human population. Become an engineer and help Design the Future. (Innovative Insolation; Motorcycle Mayhem; Breath Easy; Beach Front Property; Solar Sailing)

Instructor: Engineering for Kids Staff

CRN 31049 YS849-01 5 sessions

Mon-Fri Aug 14-18 9:00am-12:00pm

Course Fee \$192

New! Engineer Investigators**Ages 8-12**

Become a forensics engineer and help Kelvin find out who stole the blueprints for his secret, new design. Using principles of investigative science and forensic engineering, students will analyze evidence in the simulated crime scene using math, science, and technology. Embark on a new journey each day to decipher cryptic clues and biological codes, and help us identify the thief through chemical and mechanical analysis. Time is running out, and Kelvin needs your help!

Instructor: Engineering for Kids Staff

CRN 31050 YS882-01 5 sessions

Mon-Fri Aug 14-18 1:00-4:00pm

Course Fee \$192

A Pirate's Quest**Ages 6-10**

Shiver me timbers as we explore the popular culture behind the life of a pirate with LEGO® bricks. The class explores the world of 16th century pirates and a quest of treasure. The students learn about the structures of pirate ships and then get to build one (motorized), its helm and an anchor. Pirate lore often includes a monkey, a crocodile and a parrot. So does this class. Along with building motorized models using Bricks 4 Kidz® copyrighted plans, the class also feature mosaics based on the pirate culture. Throughout the week, there will be pirate trivia, games and a dress like a pirate day.

Instructor: Bricks 4 Kidz® Staff

CRN 31089 YS788-01 5 sessions

Mon-Fri June 26-30 9:00am-12:00pm

Course Fee \$192

Creative Design with LEGO**Ages 7-12**

This class combines architecture and engineering as students are encouraged to creatively design and build structures and mechanical motorized models. During the class, students build world famous structures using Bricks 4 Kidz model plans. There will be discussions on the architecture of the structure as well the engineering involved in its building. Students then design and build their own structures. Similarly, students build Bricks 4 Kidz motorized models, discuss the use of gears to create specific movement and then are asked to design and build their own motorize model.

Instructor: Bricks 4 Kidz® Staff

CRN 31090 YS791-01 3 sessions

Wed-Fri July 5-7 9:00am-12:00pm
Course Fee \$123

Minecraft Lego Adventure

Ages 6-12

Minecraft™ is what this class is all about. If you love building with LEGO® bricks and playing Minecraft™, this is the class for you. Merging the virtual Minecraft™ with hands on activities using LEGO® this year's class will focus on increased playing time as well as introducing classic LEGO bricks free play to create a physical Minecraft™ world. Students will have a unique experience playing Minecraft™ in groups on a local server controlled by the instructor. There will be 3D models of their favorite characters, Steve, Creeper, Mooshroom as well as new.

Instructor: Bricks 4 Kidz® Staff

CRN 31087 YS852-02 3 sessions
Wed-Fri July 5-7 1:00-4:00pm
Course Fee \$123

CRN 31054 YS852-01 5 sessions
Mon-Fri Aug 7-11 9:00am-12:00pm
Course Fee \$205

New! A Galaxy Far Away featuring STAR WARS®

Ages 6 -12

Blast off into a galaxy far, far away to join the Rebel forces in their battle against the Empire. There will be motorized models based on Starfighters and TIE Fighters, a X-34 land cruiser, BARC Speeders and even a JEDI Master. There will be plenty of opportunity to design and build your own STAR WARS models. In addition to building, there will be lots of games, STAR WARS trivia contests and crafts to participate in. Bring your imagination and may the Force be with you. Each camper will receive a LEGO take home.

Instructor: Bricks 4 Kidz® Staff

CRN 31088 YS883-02 3 sessions
Wed-Fri July 5-7 1:00-4:00pm
Course Fee \$123

CRN 31051 YS883-01 5 sessions
Mon-Fri July 17-21 9:00am-12:00pm
Course Fee \$192

New! Jurassic Bricks Land featuring LEGO

Ages 6-12

Study the Jurassic period dinosaurs, build moving models with LEGO® bricks, gears and motors as well as celebrate the popular Jurassic Park movies. Each day will include instructional power point presentations detailing the characteristics of dinosaurs, then building replicas of the dinosaurs that are motorized with LEGO®, creating mosaics, fun games and of course time for free play.

Instructor: Bricks 4 Kidz® Staff

CRN 31052 YS884-01 5 sessions
Mon-Fri July 17-21 1:00-4:00pm
Course Fee \$192

NASA Mission to Space

Ages 7-12

Calling all future astronauts, astro-physicists and engineers. Learn about real-life space exploration and build models based on designs from NASA's space program. They include a centrifuge, a space shuttle, a launch pad, a Lunar Module and International Space Station, Lunar and Mars Rovers and even a space robot. Learn about NASA's technology, their

exploration program and more. There will be space trivia contests, games and crafts along with time each day to stimulate your creativity during free play.

Instructor: Bricks 4 Kidz® Staff

CRN 31091 YS790-01 5 sessions
Mon-Fri July 24-28 9:00am-12:00pm
Course Fee \$192

Animal Grossology

Ages 7-12

If you're fascinated by animals and the weird but true, wild and wacky, gross and yucky, then this is the class for you! Spend the week discovering the zany biology of our animal friends. Each day we'll explore fascinating facts about the animal kingdom, focusing on two "creatures of the day". Don't be surprised to find actual skeletons and preserved examples of some of the animals displayed. Build two different animal models each day and fill your very own "Animal Grossology" booklet with crazy and cool facts you learn, complete with a picture of each model.

Instructor: Bricks 4 Kidz® Staff

CRN 31092 YS789-01 5 sessions
Mon-Fri July 24-28 1:00-4:00pm
Course Fee \$192

New! Advanced EV3 Robotics

Ages 11-14

This course is for students who have experience with Mindstorms EV3 robotics and would like to develop a higher level of programming and build more complex robots. The students will learn to use switches, math and logic variables to create complex programs for their robots. Daily challenges will include the use of multiple sensors, including ultrasonic, sound, touch, light and gyro to complete.

Instructor: Bricks 4 Kidz® Staff

CRN 31053 YS885-01 5 sessions
Mon-Fri July 31-Aug 4 9:00am-12:00pm
Course Fee \$205

New! Bricks 4 Girlz Workshop

Ages 6-10

Bring your friends and come hang out with us for a girls-only week of crafting and creating with LEGO® bricks. Each day will include building motorized models, structures to create a town as well as crafts that are oriented for girls. We'll do lots of other unique things with bricks, from jewelry making to brick art and origami, with a take-home project each day.

Instructor: Bricks 4 Kidz® Staff

CRN 31055 YS853-01 5 sessions
Mon-Fri Aug 7-11 1:00-4:00pm
Course Fee \$192

New! Edible Science

Ages 6-12

Now Finally You can EAT your Experiments. This class is designed to transform the kitchen into a science lab. By incorporating the following life science, biology, chemistry, solar system exploration and earth sciences into these simple experiments. Where Science and Food meets. Students will eat them up!

Instructor: Sara Doctofsky

CRN 31081 YS886-01 5 sessions
Mon-Fri July 31-Aug 4 1:00-4:00pm

CRN 31082 YS886-02 5 sessions
Mon-Fri Aug 7-11 9:00am-12:00pm
Course Fee \$180

BEFORE AND AFTER CARE

Raritan Valley Community College is pleased to offer summer program participants both Before and After Camp Care. If you would like your child to take part in an extended day program that allows you to bring your child as early as 7:30 am and pick your child up at or before 6 pm, please indicate on the Registration Form.

| WEEK | CRN | BEFORE COST | CRN | AFTER COST |
|---------------|-------|-------------|-------|------------|
| June 26-30 | 31056 | \$38 | 31064 | \$58 |
| July 5-7 | 31057 | \$30 | 31065 | \$46 |
| July 10-14 | 31058 | \$38 | 31066 | \$58 |
| July 17-21 | 31059 | \$38 | 31067 | \$58 |
| July 24-28 | 31060 | \$38 | 31068 | \$58 |
| July 31-Aug 4 | 31061 | \$38 | 31069 | \$58 |
| August 7-11 | 31062 | \$38 | 31070 | \$58 |
| August 14-18 | 31063 | \$38 | 31071 | \$58 |

Before-Care: Participants are supervised on campus from 7:30 – 9:00 am during the weeks and days listed above. RVCC’s experienced staff ensures your child’s safety and prompt check-in at their regularly scheduled programs. You may enroll in any or all of the weeks in which your child is attending a program.

After-Care: At the end of the regular day, children enrolled in this program remain on campus where they participate in a variety of supervised activities until 6:00 pm. You may enroll for any or all of the weeks in which your child is attending a program. Participants are not permitted to remain on campus following the end of their regularly scheduled program day without authorized supervision.

Refunds: No refunds can be provided for cancellation/withdrawal from Before or After Care.

REGISTRATION and PAYMENT must include full payment of tuition and fees along with fully completed Registration Form at the time of registration.

LUNCH COVERAGE
(Lunch is not included)

Raritan Valley Community College’s is pleased to offer summer program participants Lunch Coverage. Participants are supervised on campus from 12:00-1:00pm during the weeks and days listed below. **You must send your child with a peanut free lunch!** RVCC’s experienced staff ensures your child’s safety and prompt check-in at their regularly scheduled programs. You may enroll in any or all of the weeks in which your child is attending a program. To take advantage of this service, the child must be enrolled in a morning and afternoon class.

| WEEK | CRN | COST |
|---------------|-------|------|
| June 26-30 | 31072 | \$20 |
| July 5-7 | 31073 | \$16 |
| July 10-14 | 31074 | \$20 |
| July 17-21 | 31075 | \$20 |
| July 24-28 | 31076 | \$20 |
| July 31-Aug 4 | 31077 | \$20 |
| August 7-11 | 31078 | \$20 |
| August 14-18 | 31079 | \$20 |

Refunds: No refunds can be provided for cancellation/withdrawal from Lunch Coverage.

REGISTRATION and PAYMENT must include full payment of tuition and fees along with fully completed Registration Form at the time of registration.

REGISTRATION INFORMATION *Register Early! Many of our classes have limited enrollment and fill quickly. Sign up early to insure a place in the course of your choice.*

Registration includes full payment along with fully completed Registration Form.

IN-PERSON

Our office is located on the lower level of the College Center. Register Monday through Friday from 8:30 am to 4:00 pm.

ON-LINE REGISTRATION

www.raritanval.edu/youth

MAIL

Complete the registration form and mail it with a check or money order made payable to RVC College to:
RVCC – Youth Programs
P.O. Box 3300, Somerville, NJ 08876

Youth registrations cannot be done by phone.

View our courses: www.raritanval.edu/youth

Phone: 908-526-1200, Ext. 8404 E-mail: youth@raritanval.edu

COURSE CONFIRMATION & LOCATION

Approximately 5 days before the start of your course, a confirmation notice is emailed containing all necessary information. If you have not received the confirmation regarding your course within 2 business days of the course starting date, please call 908-526-1200, Ext. 8404. There are no refunds because you did not receive confirmation.

CANCELLATION & REFUND POLICY

The Youth Program operates on a self-supporting budget based on tuition income. We are pleased to offer you a refund for your course provided you adhere to the following refund policy and process. We regret that there can be no exceptions to the following cancellation policy due to an individual's personal or professional circumstances. If the College cancels a course prior to the first class, registrants receive the entire tuition and fees refunded. Please allow 4 to 6 weeks for processing and mailing of your refund. No refund can be provided for cancellation/withdrawal by the student without written notification at least ten (10) business days prior to the start date of the course. Registrants canceling their enrollment in writing ten (10) or more business days in writing before the beginning of a course receive a full refund less a non-refundable registration fee of \$15. The written request should include: student ID number, home address, home telephone number, the course name and course number or CRN. Please fax your request to 908-253-6696 or mail it to RVCC, College Advancement, PO Box 3300, Somerville, New Jersey 08876 or email to youth@raritanval.edu. The College reserves the right to limit registrations, combine like courses and to cancel courses if enrollment is insufficient. If the College cancels a course we will contact you by either telephone or email. At that time, you may choose to register for another course or have your refund processed. All refunds are sent by mail to the student.

DISABILITY ACCOMMODATIONS

If your child has a disability and you have questions or want to request accommodations, please call the Office of Disability Services at (908) 526-1200 ext. 8534. The College provides services in accordance with federal legislative guidelines and RVCC policies and procedures. Reasonable accommodations are approved on a case-by-case basis. We request that documentation of disability and request be presented at soon as possible.

We offer the option of providing some programs off site. In addition to the convenience of offsite programs, this option allows you the freedom to tailor any of our programs to your individual needs.

