



CT STEM ACADEMY SUMMER 2023 PROGRAMS



Programs will be at 6 Fairfield Blvd unless stated at 284 Washington Street (CT STEM Academy). Please enter building via courtyard by following entrance signs. Full day camps require students to bring a morning snack and lunch.

STEAM Camp for Ages 8 to 14

Course 2005.

Friday, June 16

9am to 3pm Full Day or 9am to 12pm Half Day Option

Cost: \$20 (Full Day .330) or (Half Day .331)

This is a fun program for all who are interested in Art connections to STEM. Each day we will explore a wide range of topics from Robotics, Science, Engineering, Art and Math that will result in a variety of Make and Take projects including Chemistry projects! This program will be high engagement, hands-on, and interactive!

STEAM Explorations I for Ages 8 to 14

Course Number: 2005.325

June 19 to 23

9am to 12pm

Cost: \$60 Half Day Camp Only

Do you like to explore science, solve problems and use technology? If you do, then the CT STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations. **Activities, and groupings, will be varied to meet the needs of all participants. Challenges will be different from past STEM Exploration Camps II.**

Online Coding and Virtual Robotics for Ages 9 to 14

Course Number: 2005.335

June 19 to June 23 - 10:00am to 11:15am

Location: Online Only - Cost: \$50

Participants will code virtually using platforms such as Snap!, Code.org, Ucode and VEX code VR. Participants will learn how to control a virtual robot using a block based coding environment. VEX code VR is based on VEX code, the same programming environment used for VEX 123, GO, IQ and V5 robots. We will provide different challenges based upon coding experience. There is no additional materials kit required for this program.

Register for all programs online @
<http://www.wallingfordct.myrec.com/>

Ages 5 and 6 STEM Camp

Course Number: 2005.305

July 10 to July 14, 10:00 am to 12:00 am

Course Number: 2005.306

July 31 to August 4, 10:00 a.m. to 12:00 p.m.

Cost: \$40

This camp will challenge students to address real world engineering problems! Students will be creating solutions, building models, and working together to explore science, technology, engineering and math. Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations. Our session will include high interest materials such as Snap Circuits, Ozobots, and Rockets! **Each session will offer different activities and topics from previous years.**

Ages 7 and 8 STEM Camp

Course Number: 2005.308

July 31 to August 4, 1pm to 3pm

Cost: \$40

Join us for an engaging session of exploring many different STEM Challenges both engineering and technology through hands-on investigations. Students will be given building challenges, coding workshops, and math games to enhance STEM learning! Our session will include high interest materials such as Lego STEM Challenges, Ozobots and more!

Robotics Camp for Ages 7, 8, 9

Course Number: 2005.301

July 31 to August 4, 1 to 3:30 pm daily

Cost: \$40

The great minds at LEGO have provided the tools and means for us to use their fun kits to do more advanced STEM and computer science. LEGO WeDo and LEGO Mindstorms are a great way for students to explore a different side of robotics that includes engineering through interesting building challenges, programming, and innovative thinking with high interest materials. **This session will offer different challenges from our previous session and held at our 284 Washington Street location.**



CT STEM ACADEMY SUMMER COMPUTER SCIENCE 2023 PROGRAMS



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Girls Powered STEM – Session 1
Course Number : 2005.340
Ages 9 – 14

July 5,6,7 (W to F) - 9:00 am to 4:00pm
Location: In person @ CT STEM Academy
Cost: \$40 (Grant Funded Program)

This camp will be exploring all aspects of STEM. Participants will be exploring topics such as coding, robotics, NASA based engineering challenges and more! Girls will have the opportunity to connect with others sharing the same interest. This class will explore coding platforms such as CS First, VEX VR, Scratch and other introductory programs. Participants will also explore robotics through hands-on explorations with Lego Robotics. This program will be lead by all female staff. **Session 1 and 2 will have different topics.**

Girls Powered STEM – Session 2
Course Number: 341
Ages 9 – 14

July 10 to 13 (M to Th) - 9:00 am to 3:00pm
Location: In person @ CT STEM Academy
Cost: \$50 (Grant Funded Program)

This camp will be exploring all aspects of STEM. Participants will be exploring topics such as coding, robotics, NASA based engineering challenges and more! Girls will have the opportunity to connect with others sharing the same interest. This class will explore coding platforms such as CS First, VEX VR, Scratch and other introductory programs. Participants will also explore robotics through hands-on explorations with Lego Robotics. This program will be lead by all female staff. **Session 1 and 2 topics will have different topics.**

3D Printing for Ages 10 to 14
Course Number: 2005.317

Fridays: August 11 and 18 - 9:00am to 12:00pm
Cost: \$30

Interested in 3D Printing? In this program, participants will use 3D modeling tool that encourages users to learn math, computational thinking and coding concepts through visualization and designing models to be 3D printed. Each participant will receive at least one 3D printed model at the end of this program.

This session will be held at our 284 Washington Street location.

STEAM Camp for Ages 8 to 14
Course Number 2005.342

Friday, August 25
9am to 3pm Full Day or 9am to 12pm Half Day
Option

Cost: \$20 (Full Day) or (Half Day)

This is a fun program for all who are interested in Art connections to STEM. Each day we will explore a wide range of topics from Robotics, Science, Engineering, Art and Math that will result in a variety of Make and Take projects including Chemistry projects! This program will be high engagement, hands-on, and interactive!



More August 2023 Offerings will be posted online in late May/early June.

All registration will be through Wallingford Parks and Recreation Dept.

Save Time and Register Online @

<http://www.wallingfordct.myrec.com/>

To hear more about our programs, visit us at www.ctstemacademy.org or on social media @ctstem (Facebook, Twitter and Instagram). Please contact us at info@ctstemacademy.org



CT STEM ACADEMY
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.VEX IQ Robotics Camp for Ages 10 to 14

Course Number: 2005.303

July 17 to 21 - 9:00 am – 3:00 pm

Cost: \$60

*This program offers students a rich and exciting introduction to advanced levels of VEX IQ Robotics. The program encourages **teamwork, problem solving, and leadership skills along with the basics of coding, building a robot, while exploring related STEM applications. During this program students will be gaining an insight to our competition team and the components of it. This class is a prerequisite for interested members to join our VEX IQ Competition team. We also welcome all who are just interested in a highly engaging robotics camp. This camp will be held at our 284 Washington Street location.***



World
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Participants since
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Computer Coding, Game Design and More

Course Number: 2006.328

July 31 to August 4, 1:00pm to 2:15pm

Location: Online Only

Cost: \$50

Ages: 9 - 14

In this course, participants will explore the wonderful world of coding and video game design. Students will learn key concepts of coding on Google CS First and use block coding platform to create their own video games. Participants will share their video games with friends and family and continue adding to them after the program is over. Come put your problem-solving skills to the test and show your creativity. No previous experience is required! Prior to the program, a Google Meet Code will be shared with registered participants. There is no additional materials kit required for this program.

Register for all programs online @
<http://www.wallingfordct.myrec.com/>

STEAM Explorations II for Ages 8 – 14 STEM

Camp Course Number: 2005.

July 24 to 28

9am to 3pm Full Day(.332)

or

9am to 12pm Half Day (.333)

Cost: \$60 Full Day or Half Day

Ever wonder how a rocket launches into space? Or how Bridges can hold many tons of weight? Join us for an engaging session of exploring many different STEM Challenges both engineering and technology through hands-on investigations. Our session will include high interest materials such as Rocketry, Chemistry, K'NEX Challenges, and Robotics! **Activities, and groupings, will be varied to meet the needs of all participants.**

Challenges will be different from past STEM

Exploration Camps I.



STEM Fun – Ramping Up to School

August 28, 29, 30 - 1pm to 4pm

Ages 8 to 14

Cost: \$20 per day

Location: In Person, Park and Rec STEM Room

August 28: Technology Exploration

Course Number 2005.312

Do you like to explore and use technology? Join us for fun activities that include coding, robotics and electric circuits.

August 29: Building Challenges

Course Number 2005.315

Buildings, houses, bridges, and cars...have you ever wondered what goes into building those structures and vehicles? Come explore and build your own prototypes.

August 30: Environmental Investigations

Course Number 2005.313

Ever wonder how a bird flies Or how animals make their homes? Maybe how a volcano erupts into the air? Come investigate environmental phenomenon!



CT STEM ACADEMY SUMMER 2023 PROGRAMS



STARBASE CT STEM Camp
Light Lane in Windsor Locks, CT
Dates: June 26, 27, 28, 29, 30
Time: 8:00am (Depart) to 3:00pm (Arrival)
Camp Program is 9am to 2pm
Cost: \$90 per participant (Grant Funded Program)
Ages: 10 to 14
Minimum Number of Participants: 20, Maximum Number of Participants: 40
Course Number: 2005.399

STARBASE CT is a five-day STEM-based academy funded by the Department of Defense in collaboration with the CT National Guard. Participants explore various STEM fields through various collaborative investigations. The students use the scientific method to conduct experiments in chemistry and physics, make observations, and analyze data through graphing and comparison to draw conclusions about the world in which they live. They also make use of technology in the form of a high-profile CAD program and 3-D printing. Students are challenged to utilize the knowledge they gain to engineer unique solutions to real world issues.

Parent drop off and pick up, as noted above, will be at the Wallingford Parks and Recreation Department, 6 Fairfield Blvd. Participants will need to pack a lunch, snack, and water bottle. All participants must have a signed STARBASE CT permission slip prior to June 23. CT STEM Academy will contact each family by early June with this permission slip.

This program is a partnership between CT STEM Academy and STARBASE CT. Participants will be supervised by CT STEM Academy staff and travel by bus, with CT STEM Academy staff, from the Wallingford Parks and Recreation Department to STARBASE CT located at Light Lane in Windsor Locks, CT.

Join us for this fantastic STEM learning opportunity!

More Summer Offerings
Please continue to check the STEM Academy Registration Page at
<http://www.wallingfordct.myrec.com/>

We will continue to update this page with more fantastic reduced cost opportunities that are not listed in this brochure.

If you have any questions, please reach out to us at info@ctstemacademy.org or at 203.232.1384