



# CT STEM ACADEMY SATURDAY AND EVENING PROGRAMS Fall 2022 and Winter 2023 Sessions



## Wallingford VEX IQ Robotics Competition Team

Course Number 2005.401

Ages 10-13

Location: Spanish Community of Wallingford

Join us for another successful season of our VEX IQ robotics competition team. Let's go to World Championships again! Students can rejoin from the previous year, but we also welcome new faces. No experience necessary. This program is high commitment and high reward. It encourages **teamwork, problem solving, and leadership skills**. The students will be using the **VEX IQ** robotics system to learn the basics of building a robot, coding and other STEM applications. **Fee: \$350** includes all meetings, t-shirt for participants and registration fees for all scrimmages and State Competition.

### Meeting Dates and Times

All meetings are 9 a.m. to 12 p.m. on Saturdays. Meeting dates are as follows:

10/1, 10/8, 10/15, 10/22, 10/29, 11/5, 11/12, 11/19,  
12/3, 12/10, 12/17, 1/7, 1/14, 1/21, 1/28, 2/4, 2/11, 2/25,  
3/4, 3/11

TBD: Additional practices prior to competitions, scrimmages, competitions and End of Year Meeting following State Competition

Please check the Wallingford Park and Rec website [www.wallingfordrec.com](http://www.wallingfordrec.com) and

[www.ctstemacademy.org](http://www.ctstemacademy.org) for the most current information.



Science • Technology • Engineering • Math

Additional Winter and Spring and Summer STEM Camp information, can be found on

[wallingfordrec.com](http://wallingfordrec.com), [www.ctstemacademy.org](http://www.ctstemacademy.org) and on

Facebook and Twitter @ctstem

All registration is online at [wallingfordrec.com](http://wallingfordrec.com)



CT STEM ACADEMY

284 Washington Street  
203.294.2175 | [info@ctstemacademy.org](mailto:info@ctstemacademy.org) |  
[www.ctstemacademy.org](http://www.ctstemacademy.org)

## Wednesday Night Science Fun Course Number 2005.

Ages 8-12

Wednesdays – See Selected Dates Below

6:15 – 7:15 p.m.

Location:

**Outdoors @ Community Lake Pavilion**

There's nothing like some science to kick off the weekend! Wednesday programs will involve exciting projects for students to burn off some of that built up energy from the week. Activities will include exciting and engaging STEM labs for kids to collaborate on. If inclement weather, program will be moved to Wallingford Park and Rec STEM Room.

**Cost: \$15 per session**

**Wednesday, September 21 - Chemistry 2005.426**

Participants will engage in a fun hands-on chemistry experiment.

**Wednesday, September 28 - Roller Coasters 2005.427**

Participants will envision and design a paper roller coaster.

**Wednesday, October 5 - Tallest Tower Challenge 2005.428**

Participants will try to build the tallest tower out of household materials.

**Wednesday, October 12 - Make and Take STEM 2005.429**

Participants will engage in a surprise STEM engineering challenge.

**Wednesday, October 19 - Water Bottle Toss Challenge 2005.430**

Students will test a variety of bottles by filling them with water and tossing / flipping them to determine which bottle of theirs has the highest success rate.

**Wednesday, October 26 - Fidget Spinner Challenge 2005.431**

Students will develop by conducting experiments on a spinning technique that they develop with a team. Participants will be looking into human error, spin speed, and will be recording and comparing spin times.

**Wednesday, November 2 - Race Car Challenge 2005.432**

Participants will create race cars using everything from straws, peppermints and K'NEX.

**Wednesday, November 9 - Basketball Hoop Challenge 2005.433**

Participants will create a mini-basketball game out of household materials.



# CT STEM ACADEMY

## Fall 2022 and Winter 2023 Programs



### Ages 5 and 6 STEM (NEW Topics)

Course Number 2005.407

Tuesdays: 10/18, 10/25, 11/1, 11/8

Time 6:15 p.m. to 7:30 p.m.

Location: Wallingford Parks and Rec STEM Room

Cost: \$38

*Do you like to explore science, solve problems and use technology? If you do, then STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations. Our session will include high interest materials that will include science, technology, art and math! Maximum Number will be 10 participants*

### Ages 5 and 6 STEM (NEW Topics)

Course Number 2005.107

Thursdays: 1/5, 1/12, 1/19, 1/26

Time 6:15 p.m. to 7:30 p.m.

Location: Wallingford Parks and Rec STEM Room

Cost: \$38

*Do you like to explore science, solve problems and use technology? If you do, then STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations. Our session will include high interest materials that will include science, technology, art and math! Maximum Number will be 10 participants*

### Chemistry Creations \*New Topics\*

Course Number 2005.112

Ages 9 - 14

Tuesdays: 2/7 and 2/14

Time: 6:15 to 7:30 p.m.

Location: Wallingford Parks and Rec STEM Room

Cost: \$25

*Explore a different side of STEM with this new program. As junior chemists, students will study the substances that make up matter—everything that takes up space in the universe. They also study the changes that take place when substances are combined. These changes are called chemical reactions. Participants who join will have the chance to see how the properties of substances can make for exciting projects that might include chemical testing and allergy free food chemistry and different from the Winter 2021 program.*

### Ages 7 and 8 STEM (NEW Topics)

Course Number 2005.406

Thursdays: 10/13, 10/20, 10/27, 11/3

Time 6:15 p.m. to 7:30 p.m.

Location: Wallingford Parks and Rec STEM Room

Cost: \$38

*Do you like to explore science, solve problems and use technology? If you do, then STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations. Our session will include high interest materials that will include science, technology, art and math! Maximum Number will be 10 participants*

### Ages 7 and 8 STEM (NEW Topics)

Course Number 2005.106

Tuesdays: 1/10, 1/17, 1/24, 1/31

Time 6:15 p.m. to 7:30 p.m.

Location: Wallingford Parks and Rec STEM Room

Cost: \$38

*Do you like to explore science, solve problems and use technology? If you do, then STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations. Our session will include high interest materials that will include science, technology, art and math! Maximum Number will be 10 participants*

### Robotics Club (New Topics)

Course Number 2005.425

Ages 7 - 9

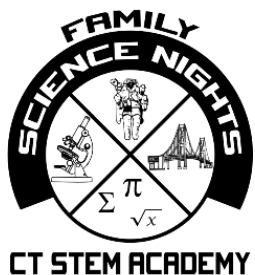
Tuesdays: 11/15, 11/22, 11/29, 12/6

Time: 6:15 to 7:30

Location: Wallingford Parks and Rec STEM Room

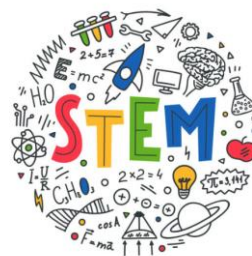
Cost: \$38

*This program is designed for participants who would like a rich introduction to robotics and are not able to make a full Saturday commitment required for our VEX IQ Robotics Team. This program encourages **critical thinking, problem solving, and communication**. Participants will be using **Lego Mindstorms EV3 and UB Tech Robotics** to learn the basics of building a robot, coding and related STEM applications. Instructors will adjust program instruction to meet the needs of all participants.*



# CT STEM ACADEMY

## Fall 2022 and Winter 2023 Programs



Meeting Location will be at the Wallingford Parks and Recreation Department, 6 Fairfield Blvd. All Registration can be completed online at [www.wallingfordrec.com](http://www.wallingfordrec.com).

### VEX Code VR & Block Coding

Course Number 2006.444

Ages 8 - 14

Wednesdays: 11/30, 12/7, 12/14

Time: 6:00 to 7:00 p.m.

Location: Online

Cost: \$28

VEXcode VR lets you code a virtual robot using a block based coding environment powered by Scratch Blocks. VEXcode VR is based on VEXcode, the same programming environment used for VEX 123, GO, IQ and V5 robots. Through robots, students will be able to make their Computer Science knowledge come to life.

### Experimental Design Session

Course Number 2005.409

Ages 8 to 14

Winter Break – Wednesday, December 28, 2022

9:30 a.m. to 12:30 p.m.

Location: Wallingford Parks and Rec STEM Room

Cost: \$40

*Are you interested in being in the next generation of creators and inventors? In our experimental design program, students will investigate with engaging hands-on challenges such as creating structures, simple machines and protective equipment.*

### STEM Explorations

Course Number: 2005.411

Ages 8 to 14

Winter Break – Thursday, December 29, 2022

Time: 9:30 a.m. to 12:30 p.m.

Location: Wallingford Parks and Rec STEM Room

Cost: \$40

Do you like to explore science, solve problems and use technology? If you do, then STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations. Participants will be grouped based upon experience and/or age.

Additional Fall, Winter and Spring program information, can be found on [wallingfordrec.com](http://wallingfordrec.com), [www.ctstemacademy.org](http://www.ctstemacademy.org) and on Facebook and Twitter @ctstem

All registration is online at [wallingfordrec.com](http://wallingfordrec.com). Additionally, families are welcome to email us at [info@ctstemacademy.org](mailto:info@ctstemacademy.org) or leave a message for us at 203.294.2175 (Office of Youth and Social Services)

### Exploring the Natural World

Course Number 2005.405

Ages 9-14

Thursdays: 9/15, 9/22, 9/29

4:15 p.m. to 5:15 p.m.

Location: Bertini Park, West Dayton Hill Road

Cost: **FREE** – Registration Required

*It's September! The sun is shining and the leaves are about to fall! In this program, participants will get outside and learn about various plants and animals that inhabit the world around them. Participants will also collect, observe and identify plants, rocks and minerals. Come on out and see what nature has to offer! New topics will be introduced*

### Python Coding

Course Number 2006.131

Ages 10 - 15

Thursdays: 1/12, 1/19, 1/26

Time: 6:00 - 7:00 p.m.

Location: Online

Cost: \$28

Python coding will provide participants with an experience of creating a project, test the project, making revisions and retesting the project. Come join us for this engaging form of coding.



### Robotics Club

Course Number 2005.125

Ages 8, 9, 10

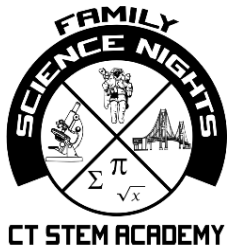
Thursdays: 2/2, 2/9, 2/16, 2/23,

Time: 6:15 to 7:30

Location: Wallingford Parks and Rec STEM Room

Cost: \$38

*This program is designed for participants who would like a rich introduction to robotics and are not able to make a full Saturday commitment required for our VEX IQ Robotics Team. This program encourages **critical thinking, problem solving, and communication**. Participants will be using **Lego Mindstorms EV3 and UB Tech Robotics** to learn the basics of building a robot, coding and related STEM applications. Instructors will adjust program instruction to meet the needs of all participants. **Topics from fall program will not be repeated.***



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### Attention Homeschool Families

#### STEAM Fun for Homeschool Families

Course Number 2005.415

Ages 8 - 14

Thursdays: 9/15, 9/22, 9/29

Time: 2:00 to 3:15 p.m.

Location: Wallingford Parks and Recreation Department, STEM Room

Cost: \$25

*This is a fun program for all who are interested in Art connections to STEM. Each week we will explore a wide range of topics such as making sidewalk chalk, shaving cream marbling, magnetic cars and mud painting. This is a perfect program for homeschool students. More programming to be scheduled based upon homeschool family schedules and interest.*



### Ages 5 and 6 STEM Course Number 2005.108

Ages 5 and 6

Monday, January 16, 2023

Martin Luther King, Jr. Day

Time 10:00 a.m. to 12:00 p.m.

Location: CT STEM Academy, 284 Washington Street

*Do you like to explore science, solve problems and use technology? If you do, then STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations.*

Cost: \$30

### Ages 7 and 8 STEM

Course Number 2005.109

Ages 7 and 8

Monday, January 16, 2023

Martin Luther King, Jr. Day

Time 1:30 p.m. to 3:30 p.m.

Location: CT STEM Academy, 284 Washington Street

*Do you like to explore science, solve problems and use technology? If you do, then STEM Academy is the perfect place for you! Join us for an engaging session of exploring many different STEM Challenges through hands-on investigations.*

Cost: \$30

### Fall Family STEM Night

Course Number 2005.434

Tuesday, October 11, 2022

at 6:15 - 7:30 p.m.

All Children Must Be Chaperone By A Parent

Location: CT STEM Academy, 284 Washington Street, Wallingford, CT

Cost: FREE - Registration Required

### Winter Family STEM Night

Course Number 2005.134

Friday, January 6, 2023

at 6:15 - 7:30 p.m.

All Children Must Be Chaperone By A Parent

Location: CT STEM Academy, 284 Washington Street, Wallingford, CT

Cost: FREE - Registration Required

We are now offering school day field trips for local classrooms and educators. For more information, please email us at [info@ctstemacademy.org](mailto:info@ctstemacademy.org) or leave a message for us at 203.294.2175 (Office of Youth and Social Services)