CT STEM ACADEMY
SATURDAY AND EVENING PROGRAMS
Fall 2023 and Winter 2024 Sessions

Wallingford VEX IQ Robotics Competition Team
Course Number 2005.401
Ages 10-13
Location: CT STEM Academy, 284 Washington Street
Cost: $450

Join us for another successful season of our VEX IQ robotics competition team. 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 includes all meetings, t-shirt for participants and registration fees for all scrimmages and State Competition. Returning participants are welcome and new participants must have attended our summer orientation session. Questions: Please email info@ctstemacademy.org*

Meeting Dates and Times
All meetings are 9 a.m. to 12 p.m. on Saturdays. Meeting dates are as follows:
9/23, 9/30, 10/7, 10/21, 10/28, 11/4, 11/11, 11/18, 12/2, 12/9, 12/16, 1/6, 1/13, 1/20, 1/27, 2/3, 2/10, 2/27, 2/24, 3/2, 3/9
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** *and* **www.ctstemacademy.org** *for the most current information.*

Exploring the Natural World
Course Number 2005.405
Ages 9-14
Saturday September 23, 2023
9:30 – 11:30 AM
Location: Sleeping Giant State Park, Hamden CT
Meet at the main entrance across from Quinnipiac University
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

Wednesday Night Science Fun
Course Number 2005.
Ages 8-12
Wednesdays – See Selected Dates Below
6:00 – 7:00 p.m.
Location: Park and Rec STEM Room, 6 Fairfield Blvd.

There's nothing like some science to kick off the weekend! Friday 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: FREE – Registration Required

***.426 Wednesday, September 20-* Chemistry**
Participants will engage in a fun hands-on chemistry experiment.

***.427 Wednesday, September 27 -* Roller Coasters**
Participants will envision and design a paper roller coaster.

.433 Wednesday, October 4 - Basketball Hoop Challenge
Participants will create a mini-basketball game out of household materials.

.432 Wednesday, October 18 – Race Car Challenge
Participants will create race cars using everything from straws, peppermints and K'NEX.

.429 Wednesday, October 25 – Make and Take STEM
Participants will engage in a surprise STEM engineering challenge.

Fall Family STEM Fun

Join us at Celebrate Wallingford on October 7th & 8th We will have *STEM Fun for All Ages and Information about Upcoming Programs* not listed in these brochure pages.

STEM
Science • Technology • Engineering • Math

CT STEM ACADEMY
Fall 2023 and Winter 2024 Programs

Ages 5 and 6 STEM (NEW Topics)
Course Number 2005.407
Tuesdays: 10/10, 10/17, 10/24
Time 6:30 p.m. to 7:30 p.m.
Location: Wallingford Parks and Rec STEM Room
Cost: $31

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: 1/11, 1/18, 1/25, 2/1
Time 6:30 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 2005.406
Thursdays: 10/12, 10/19, 10/26
Time 6:30 p.m. to 7:30 p.m.
Location: Wallingford Parks and Rec STEM Room
Cost: $31

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: 1/9, 1/16, 1/23, 1/30
Time 6:30 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

Archaeology 101
Course Number 2005.112
Ages 9 - 14
Tuesdays: 2/6 and 2/13
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 Archaeologists, students will study cultural material as they try to understand the past. Archaeologists studying the physical material left behind through the ages. This class will bring together many subjects like physical science, earth and environmental science, topography, anatomy and more!

Robotics Club (Beginner Topics)
Course Number 2005.425
Ages 7 – 9
Tuesdays: 11/14, 11/21, 11/28, 12/5
Time: 6:15 to 7:30
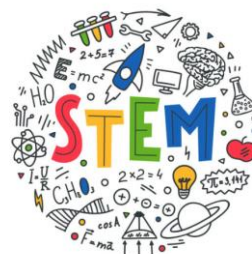**Location: Wallingford Parks and Rec STEM Room**
Cost: $38

*This program is designed for participants who would like a rich introduction to robotics and coding. This program encourages **critical thinking, problem solving, and communication.** Participants will be using **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 2023 and Winter 2024 Programs

All Registration can be completed online at
https://wallingfordct.myrec.com

STEAM Fun for Homeschool – Ages 8 - 14

Course Number 2005.415
Tuesdays: *9/12, 9/19, 9/26, 10/3*
Time: 2:00 to 3:15 p.m.
Location: Wallingford Parks and Recreation
Department, STEM Room
Cost: $38
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.

After School STEM

NEW PROGRAM
After School STEM Exploration s
for Grade 2 Students in 2024
Dates and Schools Listed Below
Times: 3:40/Dismissal – 4:45 p.m.
Cost: $20
Come join us for our STEM Explorations Program Participants will engage in hands-on STEM sessions that include coding with an ozobot, electric circuit projects and engineering challenges. Sign up early to reserve your spot!
Course Number 2005.

.100 Moses Y. Beach – 1/9, 1/16, 1/23, 1/30
.101 E.C. Stevens – 2/6, 2/13, 2/20, 2/27
.200 Cook Hill – 3/5, 3/12, 3/19, 3/26
.201 Highland – 4/2, 4/16, 4/23, 4/30

Weather related cancellations will be made up on Tuesdays in May.

VEX Code VR & Block Coding – Online Program
Course Number 2006.144
Ages 8 - 14
Mondays: 1/8, 1/22, 1/29
Time: 6:00 to 7:00 p.m.
Location: <u>Online</u>
Cost: $30
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.

Python Coding – Online Program
Course Number 2006.131
Ages 10 - 15
Thursdays: 1/11, 1/18, 1/25
Time: 6:00 - 7:00 p.m.
Location: <u>Online</u>
Cost: $30
Python coding will provide participants with an experience of creating a project, testing the project, making any revisions Come join us for this engaging form of coding.

Robotics Club (Intermediate Level)
Course Number 2005.125
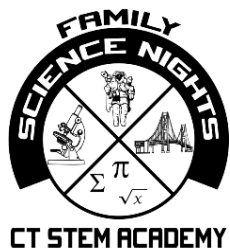**Ages 7 - 10**
Thursdays: 2/8 , 2/15, 2/22, 2/29
Time: 6:15 to 7:30 p.m.
Location: CT STEM Academy, 284 Washington Street
Cost: $38
*This program is designed for participants who would like to continue their robotic education. This program encourages **critical thinking, problem solving, and communication.** Participants will be using **Lego Mindstorms EV3** to learn how to build a speciic 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. Must have prior robotics experience in our fall session.***

CT STEM ACADEMY
Fall 2023 and Winter 2024 Programs

All Registration can be completed online at https://wallingfordct.myrec.com

School Break One Day Programs

Robotics Exploration – One Day Program
Ages 8 to 12
Course Number 2005.411
Monday, October 9, 2023
Time: 9:00 a.m. to 12:00 p.m.
Location: CT STEM Academy, 284 Washington Street
Cost: $40

Just us for a fun morning exploring a variety of robotics platforms. Possible topics include sphero, ozobots, lego robotics and UBtech robotics.

Experimental Design – One Day Program
Course Number 2005.414
Ages 8 to 14
Winter Break – Wednesday, December 27, 2023
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: 2005.416
Ages 8 to 14
Winter Break – Thursday , December 28, 2023
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.

Ages 5 and 6 STEM - One Day Program
Course Number 2005.108
Monday, Jan. 15, 2024 - 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 - One Day Program
Course Number 2005.109
Ages 7 and 8
Monday, Jan. 15, 2024 - Martin Luther King, Jr. Day
Time 1:30 p.m. to 3:30 p.m.
Location: CT STEM Academy, 284 Washington Street
Cost: $30
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.

Fun with Chemistry
Course Number 2005.110
Ages 9 to 14
Monday, February 19, 2024 - Presidents' Day
Time: 1:00 p.m. to 3:00 p.m.
Location: CT STEM Academy, 284 Washington Street
Calling all Junior Chemists! Participants who join will experience how different substances react with one another. Some experiments may include: making different foods like ice cream; high flying reactions like film canister rockets; or colorful creations like slime and lava lamps.
Cost: $30

Field Trips We are now offering school day field trips for local classrooms and educators. For more information, please email us at info@ctstemacademy.org or call/text us at 203.626.2280.