



2023 – 2024 ROBOTICS CLUB

Introduction

Begin a fun and educational journey that will teach you amazing concepts and skills in robotics. Each of the principles and skills taught are designed to help you develop a passion and strong interest in STEAM subjects. The Robotics Club will introduce students to key concepts that involve researching, programming, problem solving, engineering, and creativity, developing student interest in STEAM goals and objectives. Students who participate in this club will have the opportunity to develop important lifelong skills and critical thinking while having a great deal of fun! Students will work in teams, build models using Lego Education WeDo 2.0 and the new SPIKE kits before finally creating a show poster to present what they learned at a season-ending event.

Curriculum:

Students work together in groups with LEGO DUPLO sets. Using these DUPLO blocks, the students will explore problems faced by the larger world and design solutions to those problems. This class focuses on group participation, organization of thought, creative expression within a confined problem space. Space is limited, please submit your application as soon as possible. This year's theme is MASTERPIECE, focusing on the creation, expression and power of art. Students will innovate and imagine new ways to communicate art across the world.

Club Participants will have an opportunity to:

- Explore real-world problems and concepts.
- Create a solution using LEGO DUPLO pieces.
- Learn critical thinking, team-building, presentation and confidence
- Present their solution and models to parents and students in an end of the semester event.

Fee & Costs: \$315 one-time fee.

Competition and Additional Club Meetings

This is a non-competitive event. Students will present their model of a solution and a map of their progress to the solution to their parents and other students.

For more information, visit: <https://www.firstinspires.org/robotics/fll/challenge-and-season-info>

Kindergarten – 1st Grade



Head Coach: Mr. Kenneth Glassey

Schedule: Wednesdays 4:00 PM – 5:30 PM
January 10 – April 24

Location: Mac Lab/Makerspace

Curriculum:

Students work together with their team coach to create a robotic LEGO model with moving parts using both the new SPIKE Essentials kit and the order We-Do kits. Working with their peers, students explore science and engineering concepts through research, teamwork, construction, and imagination. Space is limited, please submit your application as soon as possible. This year's theme is MASTERPIECE, focusing on the creation, expression and power of art. Students will innovate and imagine new ways to communicate art across the world.

Club Participants will have an opportunity to:

- Design and build a challenge-related model using LEGO components
- Create a Show Me Poster and practice presentation skills
- Explore challenges facing today's scientists
- Discover real-world math and science
- Develop teamwork skills
- Engage in team activities

Fee & Costs: \$345 one-time fee.

Competition and Additional Club Meetings

This is a non-competitive event. Students will present their model of a solution and a map of their progress to the solution to their parents and students.

For more information, visit: <https://www.firstinspires.org/robotics/fll/challenge-and-season-info>

2nd – 3rd Grade



Head Coach: Mr. Kenneth Glassey

Schedule: Tuesdays 4:00 PM – 5:30 PM
September 12 – December 5

Location: Mac Lab/Makerspace



2023 – 2024 ROBOTICS CLUB

Curriculum:

The next level in the LEGO robotics program, participants in the FIRST LEGO League work together with their team to solve real-world challenges by building LEGO-based robots to complete tasks on a thematic playing surface. By working with their coach, the team will not only explore engineering concepts, science, math, and programming, but they will also have an opportunity to explore this exciting career and learn to make positive contributions to society. This year's theme is *Masterpiece*, focusing on the creation, expression and power of art. Students will innovate and imagine new ways to communicate art across the world. This club will be held at the same time as the Middle School Robotics Class, allowing the club to hone their skills against the class and inspire each other to innovate and refine further than they would have alone.

4th – 5th Grade



Head Coach: Mr. Kenneth Glassey

Club Participants will have an opportunity to:

- Design, build, test, and program robots using LEGO MINDSTORMS technology
- Apply real-world math and science concepts
- Research challenges facing today's scientists
- Learn critical thinking, team-building, and presentation skills

Schedule: Mondays 4:00 PM – 5:30 PM
September 11 – December 4

Fee & Costs:

- \$385 **one-time fee**.

Location: Mac Lab/Makerspace

Competition and Additional Club Meetings

This team will not be attending the FIRST Lego League competition but will be able to scrimmage against the Middle School FLL Team, and will participate in the end of semester festival to show off to parents and other students. Students may also be asked to participate in events and scrimmages with other schools.

For more information, visit: <https://www.firstinspires.org/robotics/fll/challenge-and-season-info>

Fee Policy:

- Fee will be billed to your invoice.
- **Non-Refundable, Non-Transferable and Non-Prorated.**
- **Includes** cost of all materials, tools, and facilities for team members.
- **Excludes** travel and competition costs if any apply.

Other:

- A **30-day notice** in writing is required for any withdrawal or changes. All notices **must be e-mailed to** [ATTENDANCE](#). Please note that if you withdraw your child, the fee is non-refundable.
- The school **DOES NOT** accept any verbal notices; requests and changes must be emailed.
- **NO Classes** during Thanksgiving Break, Winter Break, President's Week, Spring Break, Holidays, or Special events.
- **NO-Make-up** Class unless the instructor re-schedules the class.
- The Season may go longer.
- The Date and time are subject to change.

Contact:

- Robotics Advisor & Head Coach [Mr. Kenneth Glassey](#)