



Team Neutrino

FIRST Robotics Team #3928

CAMP SYLLABUS FOR *FLL BLASTOFF!* SUMMER CAMP

CAMP DESCRIPTION _____

This camp provides educational and engaging STEM and FIRST LEGO League (FLL) activities and facilities for students during the summer vacation. This program is designed for kids entering grades 4-8 as a way to approach or continue to expand their knowledge of FLL and STEM topics.

CAMP OBJECTIVES _____

FLL Blastoff! will focus on implementing the following goals and objectives:

- **FLL CURRICULUM**
 - Improving student's knowledge of FLL competitions in preparation for the school season
 - Introduce students to FIRST core values: Impact, Innovation, Inclusion, Teamwork, Discovery, and Fun
 - Engage in a week-long build season leading up to a mock FLL competition on the last day
- **CODING AND ROBOT DESIGN**
 - Develop knowledge of pseudocoding and prototyping for robot design
 - Improve code through block code on FIRST coding software
- **Teamwork & Collaboration in STEM**
 - Engage students in a stimulating and engaging environment for problem-solving and collaboration
 - Promote teamwork, communication, and critical thinking to overcome technical challenges

This institution is an equal opportunity provider. For the full non-discrimination statement or accommodation inquiries, go to www.extension.iastate.edu/diversity/ext.



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MATERIALS

- Students will be provided with an *FLL Blastoff!* T-shirt and a goodie bag containing Team Neutrino stickers, pins, and other fun widgets.
- Students will be provided allergy-safe snacks and water daily throughout the camp.
 - Team Neutrino recommends students bring their own water bottles for refills, but water will be provided as well.

CAMP CONTENT

TOPIC	ACTIVITIES / STRATEGIES
I. Coding	<ul style="list-style-type: none">• Pseudocoding challenges and presentations• Mini objectives to hone block code and coding logic
II. Robot Design	<ul style="list-style-type: none">• Engineering and design challenges to encourage innovation• Building around goals to create designs with purpose
III. FIRST LEGO League	<ul style="list-style-type: none">• Mock FLL season: game reveal, building, and competition day• Core values: presentations and activities: discovery, innovation, impact, inclusion, teamwork, and fun
IV. Teamwork & Collaboration in STEM	<ul style="list-style-type: none">• Daily, active challenges to engage students in problem-solving and fun• Take-home activities• Groups of 3 work in teams during the camp



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CAMP POLICIES & RULES

- **Respect Everyone:** Be kind and polite to all peers, instructors, and volunteers throughout the camp.
- **Follow Instructions:** Pay attention and follow the instructions given by the camp we leaders and volunteers.
- **Safety First:** Always handle tools and equipment carefully. Broken equipment should be reported to an instructor.
- **Use Technology Responsibly:** Use computers, tablets, and other technology only for camp-related activities.
- **Respect the Camp Schedule:** Arrive on time for each session and be ready to start. Take breaks only during designated times and return to activities when finished.
- **Stay on Track:** Stay focused and complete your tasks on time without getting distracted; your team members are counting on you.
- **Stay Positive:** Approach challenges with a positive attitude; we are all here to learn.
- **Be Creative and Have Fun!** Team Neutrino will foster a friendly and exciting atmosphere for all students.

***DISCLAIMER:** If a student fails to follow all rules listed above despite reminders and coaching, they will be sent home from the camp.*

ADDITIONAL INFORMATION

- Parents are invited to join students on **Friday, the concluding day of the camp** to watch the students compete in an actual FLL competition!
 - 4-5 grade session competition will be from **10:30 am to 12:00 pm**

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- 6-8 grade session competition will be from **3:30 pm to 5:00 pm**

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