



## NCA ROBOGATORS

NCA's Robogators are competitive teams of 6<sup>th</sup>-8<sup>th</sup> grade NCA students who participate and compete in the First LEGO League (FLL) Challenge. The FLL challenge consists of designing and building robotic solutions utilizing the Lego Mindstorms platform, as well as research and presentation of an innovative solution to a real world problem based on the challenge theme. For more information about First Lego League please visit their website: <http://www.firstlegoleague.org/about-fll>

1. Program an autonomous robot (using LEGO MINDSTORMS robot set) to score points on a thematic playing surface.
2. Create an innovative solution to a real world problem as part of their Project.
3. Learn the FLL Core Values like "Gracious Professionalism."
4. Yearly Challenge consists of four elements –FLL Core Values, Project, Robot Design and the Robot game. The Robot Game is used as a "passing gate" where teams must score in the top 75% to be eligible to advance.

### PRACTICES

- Each team will meet at least once per week after school, from 3:30pm to 6:30pm, with additional practices on Saturdays.
- The teams will begin meeting at least twice per week in September-days to be determined by each team coach. 1 weekday plus a Saturday practice that averages 3-5 hours.
- As the season progresses, there will be need for additional practice day(s) and/or time. There is a possibility that some practices could be added on short notice by coaches. Robogators and FLL are a "sport of the mind" and practice attendance must be a priority.
- **The coaches will likely schedule some pre-season get-togethers depending on availability.**

### TEAMS, COACHES, AND PARENTAL EXPECTATIONS

- We will have two to three teams of 6 to 8 students
- NCA Robogator teams are led by NCA Parents. Each team will work on the FLL Challenge, to present their finished project and participate in the robot competition at the FLL Qualifier event in December. Depending on a team's success at the Qualifier, additional practices will be added in preparation for the Regionals. (The season could extend into April or May).
- Food and snacks: Parents are expected to help provide snacks (weekdays) and lunch (weekends) during practices. The coaches/mentor will help coordinate.
- Health and special circumstances: If your child has a special need (diet, allergy, physical, mental, behavior, and any other needs), please identify those in advance so that a partnership between the NCA staff, coaches, parents, and students can help mitigate potential issues. However, it is the sole responsibility of the parent(s) for the well-being of their student.
- The "Team" consists of the students, coaches, mentors, & parents. The "team" must embrace the full FLL Core Values. In addition, we, the adults, need to be the example to our students and a guiding light for other teams around us. Above all, as Christians, we are representing God and shall exhibit Christ-like behaviors.

- Parents/Guardians of each team member are expected to help at a minimum of 3 Saturday practices. This is a must to help ensure the success of the team. We will have sign-up sheets at the Kick-Off Meeting in August for parents to volunteer.
- A code of ethics and expectations will be provided upon acceptance to the team, which will need to be signed by both the student and the parent(s).

**REQUIREMENTS**

- A willingness to work hard, come to every practice, and complete work assignments that will need to be worked on at home in preparation for the next meeting.
- Be willing to put the Robotics team as your 1<sup>st</sup> priority in extra-curricular activities.
- Be prepared to be involved for the entire school year if the team advances to the Washington State tournament and/or national competition, which could go as late as May 2020.
- Willingness to work with a team and contribute to the team with a positive attitude, hard work and innovative ideas.
- Students will be expected to work on projects, presentation materials, and prepare and give speeches.
- Please note that with limited space, students will be selected based on their experience, interest and commitment levels. An interview will be conducted for each new applicant.
- **There is a \$150 participation fee payable upon acceptance of one the Robogator Teams.**

**2019-2020 ROBOGATOR APPLICATION**

Complete this Form and return to the Academy Office or email the form to Kristen Kreutner ([kkreutner@northshorechristian.org](mailto:kkreutner@northshorechristian.org)). Applications are due by email or submitted to Academy Office by May 8, 2019.

**Student Name** \_\_\_\_\_

**Grade entering in fall of 2019** \_\_\_\_\_

**Student email** \_\_\_\_\_ **Student Cell Phone** \_\_\_\_\_

**Please complete the following questions. Please use the back if additional space is needed. The more information you provide, the easier it will be for us to get to know you.**

1. Please explain why you're interested in joining Robogators

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\_\_\_\_\_

\_\_\_\_\_

2. Please describe any experience you have had working with a team to solve technical problems and one important thing you learned through the experience-This can include school experiences. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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3. Do you have experience using Lego Mindstorm Equipment? When? Where?

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\_\_\_\_\_  
\_\_\_\_\_

4. Describe a time that you solved any kind of problem (not necessarily technical) and how you communicated to others what you found.

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\_\_\_\_\_

5. Are you willing to learn how to work with your team and mentors and share your knowledge to people outside of the group?

\_\_\_\_\_  
\_\_\_\_\_

6. Do you have other activities that will conflict with attending practices and especially the competition events? Are you and your parents(s) willing to commit to making Robogators a priority activity in your life? *The season begins immediately and could go to April/May if we make the National Competition. We will have additional practices close to competition days. This is a competitive team activity that needs full attendance to be successful.*

\_\_\_\_\_  
\_\_\_\_\_  
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7. What artistic or creative talents do you have that have nothing to do with robotics?

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\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_ I consent to my student participating in NCA Robogators.

-----I have attended the Mandatory meeting with my child. (Tuesday, May 7, 5pm in B108)

**Circle yes/no-**My child has special needs (please attach documentations)

\_\_\_\_ I acknowledge that the coaches, mentors, and other parents are volunteers and I, the parent(s), is/are responsible for the well-being of my student.

Parent Name (Print) \_\_\_\_\_

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

Parent Cell Phone \_\_\_\_\_ Parent Email \_\_\_\_\_

Parent Name (Print) \_\_\_\_\_

Parent Signature \_\_\_\_\_ Date \_\_\_\_\_

Parent Cell Phone \_\_\_\_\_ Parent Email \_\_\_\_\_

Student's Signature \_\_\_\_\_ Date \_\_\_\_\_