



Information Meeting for Forest Park Robotics

Home of Team 4303

Coach

- ▶ Mrs. Cinnamon - Head Coach

- ▶ Coaching Experience: FRC, VEX, VEX IQ, FIRST LEGO League, SeaPerch
 - ▶ Forest Park HS for 9 years
 - ▶ Benton MS for 9 years
 - ▶ All-County FIRST Robotics Team (SuperNOVA) for 8 years)
- ▶ Degrees in Electrical Engineering
- ▶ Awarded VEX Mentor of the Year at VEX Worlds 2015
- ▶ Awarded VEX Mentor of the Year at Virginia VEX States 2019

What is Robotics?

- Robotics is a highly competitive extracurricular activity.
- What is Robotics? <https://youtu.be/LRgmHgZCrU0>
- Student teams design, build and program a robot to compete against other teams in a game-based engineering challenge.
- Fun, hands on STEM activity.
- NO Instruction book! Students learn the principles and apply them to their own creations using the engineering design process.

VEX Spin Up

- ▶ Game Challenge is Spin Up
 - ▶ Challenge changes every year.
 - ▶ Let's take a look
<https://youtu.be/wIZgvVDZc2Y>

Practices/Schedule

- ▶ **Robotics is a HUGE Commitment!**
 - ▶ Season runs from September - March.
- ▶ **Practices will be held every Tuesdays and Thursdays from 2:15pm - 5:00pm**
- ▶ Attendance at Practice is Mandatory.
- ▶ We understand the occasional missed practice due to illness, appointments and other activities, but robotics must be a priority
- ▶ You must come to at least 75% of practices to be able to travel to competitions
- ▶ Excused absences are allowed to a degree
- ▶ Remember, you aren't the only person on the team, your actions may affect others

Competitions

Building Robots is cool, but the Competition makes it fun!
VEX Robotics ~ 32,000 teams Worldwide.

- ▶ **REGIONAL** - Saturdays or Sundays, typically from 7:30am - 5pm!
 - ▶ Dates to be announced
- ▶ **STATE CHAMPIONSHIPS** - March 3-4, 2023 in Doswell, VA
 - ▶ Must qualify to compete at States through winning an award at a Regional Competition or based on Skill scores.
 - ▶ Two Day event - Friday and Saturday
- ▶ **WORLD CHAMPIONSHIPS** - Only 12 teams from Virginia out of 240 teams will qualify for World's.
 - ▶ Must win a qualifying award at the State Championships.
- ▶ **Parents typically provide transportation to all events.**

Team Structure

- ▶ Forest Park competes with 6 teams. 4303_
- ▶ 6-7 Students on One Team.
Students stay with that team the entire season.
- ▶ There are many roles on a team:
 - ▶ Mechanical - Design and Build
 - ▶ Programmer
 - ▶ Engineering Notebook/Documentation/Photos
 - ▶ Scouting/Strategy
 - ▶ Drive Team (Driver(s) and Coach)
 - ▶ Not every student will drive at a competition.
 - ▶ They must master the skill and the game strategy in practice.

Application Process

- ▶ Applications are Due Online by Wednesday, September 28th at Midnight
- ▶ Answer all the questions well
 - ▶ We don't want 1 sentence answers.
- ▶ We will take them early but we will not take them late
- ▶ There is NO teacher recommendation needed
- ▶ Applications can be found at forestparkrobotics.com

Tryouts

- ▶ Thursday, September 29th from 2:15-4:30pm
 - ▶ Meet in Room 1157
- ▶ Teamwork, Communication and Problem Solving skills.
- ▶ Knowledge of Spin Up!
<https://www.roboticseducation.org/documents/2022/08/vrc-spin-up-game-description.pdf/>

It is highly advised to read the Game Rules and watch the game video!!!

- ▶ Prior Robotics experience is not Required.

What are we looking for?

- ▶ Problem Solvers
- ▶ Innovators
- ▶ Dedicated
- ▶ Work well with others
 - ▶ This is a teamwork challenge
- ▶ Interested in STEM.
- ▶ Love a challenge

We have high expectations of every student on this team as they represent Forest Park Robotics everywhere they go and must act appropriately at all times.

Competitive Process

Not everyone who applies will make the team. The Robotics team is extremely costly to run and we have limited equipment and parts.

- ▶ Applicants will be evaluated based on:
 - ▶ Application
 - ▶ Tryouts
 - ▶ Ability to Solve Problems
 - ▶ Robotics experience
 - ▶ Programming experience

** Previous Robotics experience is NOT required, everyone has to start somewhere!

Required Items for Team Members

- ▶ **\$100 Activity Fee**
- ▶ **Purchase a Forest Park Robotics Team T-shirt ~\$15**
 - ▶ Required for all competitions and events
- ▶ **Safety Glasses**
 - ▶ Each student is required to wear Safety Glasses at practice and competitions.
 - ▶ They don't need to be expensive. Purchase at Home Improvement stores, Amazon, Dollar store.
 - ▶ Students are responsible for their own glasses.
- ▶ **Blue and Green Spirit Wear**
 - ▶ Show team spirit at Competitions.
 - ▶ Anything Blue and Green
 - ▶ Crazy socks, Hats, Beads, Capes, Tutus....Anything Goes!

Our Goals for Forest Park

- ▶ Students will develop a passion for STEM.
- ▶ Challenge themselves.
- ▶ **Learn to Fail.** They will make mistakes, robots will break and learning to overcome these challenges is the best learning tool!
- ▶ Learn to work as a team, this means putting aside egos and working together to achieve their goals.
- ▶ Gain Confidence!

- ▶ **HAVE FUN!!!**

Reminders

- ▶ Applications are due Wednesday, September 28th
- ▶ Applications are available at forestparkrobotics.com
- ▶ Tryouts will take place
Thursday, September 29th from 2:15 - 4:30pm.
 - ▶ Know the Spin Up rules and game play.
- ▶ Practices begin October 4th
 - ▶ Practices are held every Tuesday and Thursday from 2:15pm-5:00pm

QUESTIONS??





VEX Worlds Experience

<https://youtu.be/ovpPK9sSJtg>