



# Northwestern Regional High School FIRST ROBOTICS TEAM



jcpenny

# What is a FIRST Robotics Team?

*“The Varsity Sport of the Mind”*

FRC combines the excitement of sports with the rigors of science and technology.

Under strict rules and time limits, students are challenged to develop strong teamwork skills, build and program a robot to perform a specific task and eventually face a field of competitors.

## **Students get to:**

- Learn from professional engineers
- Build and compete with a robot of their own design
- Learn and use sophisticated software and hardware
- Compete and cooperate in alliances and tournaments
- Earn a place in the World Championship
- Qualify for \$15 million in college scholarships

# What do we need to get started?

- ✓ **2-3 professional engineers:** These engineers will guide students through the engineering challenges of designing and building the robot.
- ✓ **2-3 additional adults** to handle organization and communication, registration, shipping, website, travel arrangements, etc.
- ✓ **15 Interested high school students**
- ✓ **Financial support:** [Alcoa Foundation Grant](#) and [jcpenny](#)
- ✓ **A meeting place:** Tech Ed Room
- ✓ **Tools:** Hand tools, power tools, access to machine shop tools.
- ✓ **Time:** The commitment would be to meet from September through April. There is an intense six week build period from early January through mid-February with competitions occurring in March.

# Timeline

- ✓ **October:** Registration of Northwestern's Team, visit Farmington, meet with interested adults and engineers.
- **November/December:** Team holds strategy meetings, receive training on how to build and program a robot
- **January:** [The kickoff on January 7, 2012](#) is the official beginning of the FRC season at Farmington High School. Teams will watch a live broadcast of the release of the game rules, learn the password to decode the FRC Competition Manual, and pick up our Kit of Parts. ***The six-week design and build a functioning robot that meets the challenge begins.***
- **February:** Team receives email updates and changes/improvements to the rules. On Robot Ship Day, teams must stop work on their robot.  
**March:** Competitions begin. Robots will be judged for awards in design, creativity, effectiveness and innovation. Students will be judged on team cohesiveness, knowledge, cooperation, and gracious professionalism.
- **April:** Winning teams convene for FIRST Championship in St. Louis, Missouri. One outstanding Rookie Team will be invited to compete!

# Are you interested in volunteering?

- Mr. Stephen Goyette is our Team Leader.
- Please contact Mr. Ken Chichester at [kchichester@nwr7.org](mailto:kchichester@nwr7.org) if you would like to assist our team in either a technical or non-technical way.
- **THANK YOU FOR YOUR SUPPORT OF OUR PROGRAM!**