RoboEagles FRC 4579

# 2015-2016 TEAM MANUAL

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Manual Outline (NOT FOR FINAL DRAFT)

1. ~~Introduction~~
   1. What do we do?
   2. Why?
   3. Basics
   4. Team member responsibility
   5. When do we meet
   6. More info
2. ~~Application process~~
   1. There is none (just a form)
   2. Subject to current season grade checks
      1. Grade check at beginning of build season; must maintain about the same GPA
      2. Current GPA must be 2.75+
3. Expectations
   1. Fun, Failure, Fundamentals, Food
   2. Attendance
      1. Student Commitment (attendance is not required, but is beneficial to you)
   3. Learning / Active Participation
4. Basic Calendar / Schedule
   1. Pre-Season
   2. Build Season / Competition
   3. Post Season
   4. Summer
5. Team Structure
   1. Leadership team and Captain
   2. Elections
   3. Subteams
   4. Entry into specialty
6. Learning Structure
   1. Teaching Teams
   2. Specific Mentors for Mechanics, Electrical, Programming, etc. (a thought)
   3. Seminars before build season
7. Communication
   1. Email Every Friday by one of the leadership team
   2. Subteams encouraged to have own email system as well

# Introduction

What do we do?

Our robotics team competes in the annual FIRST robotics competition. Every year, FIRST has a completely new game for us and it is up to the teams to design the complex systems to achieve the objectives in the game. It is extremely exciting, but as any FIRST competitor will tell you, it can be extremely tiring as well.

Why do we do it?

It’s a ton of fun and robot building has a lot to offer. Every member has the opportunity to learn about any applicable field. From being in charge of updating the parts list to being in charge of networking the robot, there is a job for everyone; everyone has an opportunity to learn, and typically a lot more than they anticipate.

Responsibilities

In our team, we expect our members to be responsible. This is for the sake of all involved. Every person is responsible for themselves and any tasks assigned to them.

When to meet

In the weekly email, there will be schedule updates; there is also a calendar available online. Typically we meet every day except Fridays and the weekends (except during build season). During the build season, we will likely meet nearly every day except Sunday. Every meeting is held in Mr. Stevens’s portable or in the shop.

More information

For more information about our robotics program, please call 253-945-5487 or email bstevens@fwps.org.

# Application Process

In our robotics program, there truly is no application process. As long as you meet the grade requirements (explained in the next paragraph) and have the appropriate paperwork filed, you are guaranteed the ability to work on the robot. The closest thing we have to an application process is a single information form that is also required for participation.

Grade Requirements

Though we allow anyone to join, to participate in robotics, one must have a current GPA greater than 2.75, and during the build season, your current GPA cannot fall below 0.5 from its starting point or 2.75, whichever is higher. These requirements are in place to ensure academic success in our team members.

# Expectations

The Four ‘F’s

There are four absolutes in expectations in our robotics program.

**FUN** – We do a lot of work, but that doesn’t mean that we don’t have a lot of fun also.

**FAILURE –** There will be times that we will have an issue with a system or we build or have an idea that simply doesn’t work.

**FUNDAMENTALS –** As long as you work for it, you will gain a ton of insight into robotics. Whether you’re interested in construction, electronic systems, or programming, this is a place to learn.

**FOOD –**

Learning and Active Participation

# Basic Calendar and Schedule

Pre-Season

Build Season and Competition

Post Season

Summer Commitments

# Team Structure

Leadership Team

Elections

Subteams

Specialties

# Learning Structure

Teaching Teams and Seminars

Mentorship

# Communication

Team

Subteam