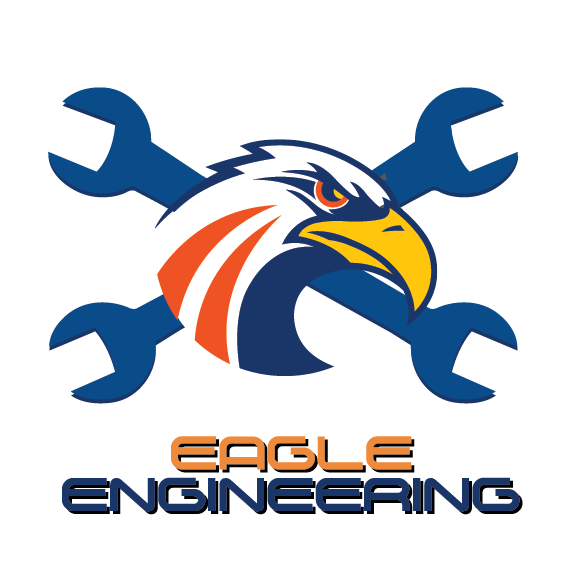
What To Expect for 2018-19



**What is Eagle Engineering?**

Eagle Engineering Robotics at Chaminade is about a lot more than just technology. We are a highly rewarding activity that provides students with life skills and professional-style work experience as well as a lot of fun, excitement and a lifelong bond among great friends. We are more than a club. We truly are a *team* and a *family*. We develop leadership, communication, collaboration, project management, professionalism, service, strategic and critical thinking and problem solving.

**What Are the Demands?**

Like all great accomplishments, our team expects commitment and hard work. For many team members, the time commitment is similar to that of Band, drama or sports, and it lasts the full school year. For students who cannot make the full time commitment, we do offer a junior varsity option, which allows them to observe and participate on a limited basis.

Students are expected to take initiative and work with leaders to craft their own experience. Those with focus and determination will gain more responsibility and status on the team. New members are highly encouraged to ask questions, listen and observe, and then jump into a project when the opportunity arises. In short, you are ultimately responsible for your level of involvement, so it is important to speak up when there is something that interests you.

If you feel like you are not finding the experience you want, please speak with the Head Coach, Mr. Smeltzer.

**What Are the Rewards?**

Many students find that our team is about much more than robots. We bond as a team and learn to take part in something bigger than ourselves. Students develop professional skills and gain meaningful work experience. Highly committed students who work hard will develop invaluable leadership skills. Robotics looks good on college applications and resumes as practical experience. We also offer a path to gain entry into the International Robotics Honor Society. Finally, we have a long history of forming lasting friendships, forged in a shared challenge and tempered with teamwork and inclusivity.

**Team Activities**

Eagle Engineering does much more than just build robots. We run like a business, and develop students to function in a professional work environment. Not all jobs require the same time commitment. (For example, an engineer or a designer will typically put in more time than our PR/Marketing Team). The following list covers all of the typical activities you might encounter over the year, but your experience may vary.

**First, It *Sounds* Like a LOT… But** **Don’t Be Overwhelmed**

Eagle Engineering does have a lot going on, but it’s a large team and all this work is spread among many students. Schoolwork comes first and you should be careful not to commit to more than you can handle. However if you get over your head, you should talk to Coach Smeltzer right away to have your work reassigned.

**Regular Meetings**

The team meets throughout the year in The Bob Hope Center. In first semester, regular team meetings occur every Thursday from 3:15 to 5:30. They are the days that we focus on general team activities, announcements and training but doing just these meetings will leave you out of a lot. All members are expected to attend regular meetings.

**After-Meeting Shop Hours**

Lots of people on the team want time to work on projects, so after our regular Thursday meetings conclude at 5:30, you may then work on projects until 7:00.

**Tuesday Open-Shop Days**

On Tuesdays from 3:15 -7:30, the team room will be open for projects. You are encouraged to use this time to meet with mentors and student leaders, work on projects, or lead your own work group sessions or practices. You are also welcome to just show up and see what there is to do. *This is a smaller group situation where you can learn and do the most –do not underestimate its importance and value.*

**Weekend Builds**

In first semester we may call for weekend builds from time-to-time. These are optional days, but we strongly encourage you to attend whenever you can because this is where most of the real work is accomplished.

**Fall Tournaments**

This is the fun part. While attendance is optional, why wouldn’t you attend? It’s the payoff to all that work! Competitions take most of a Saturday and if you are representing your team at an event you are expected to stay for the whole thing. Only varsity team members may represent the team to judges and participate directly in matches or in the pit.

In the Fall, we attend between 3 and 5 weekend tournaments. Most are in our area or within a few hours drive. The Current schedule is looking to be as follows:

* 9/8 Bakersfield Vex Tournament (teams TBD)
* 10/13 Viewpoint School Clash in the Canyon –Calabassas, CA
* 10/27 Chaminade Vex Tournament on our campus.
* 11/10 Reseda’s Victory in the Valley Vex Tournament --Reseda, CA
* 11/17 Granada Hills Vex Tournament –Granada Hills, CA
* Expect one or two other events to be added if available.

All students do not necessarily need to attend all events.

**Build Season – Second Semester**

From the first Saturday in January until the third week in February, you will be put through a challenging period know as build season. During this time we work extra hours four days a week. We work together, eat together, and sometimes we even do homework together. On Saturday, January 5th, we will watch the FRC “game reveal” live streamed from FIRST headquarters. There we learn the challenge for which we are building our robot. Just six weeks later we must stop work on our competition robot.

Build Season Schedule (unless otherwise notified)

Thursdays 3:15 – 8:00PM

Fridays 3:15 – 8:00PM

Saturdays 10AM – 8:00PM

Sundays 1PM - 6PM

And there is more… but just a reminder: *don’t be overwhelmed*.

**H2AC**

In addition to Vex and FIRST, we now compete in a RC car race called the *Hydrogen Horizon Automotive Challenge* or H2AC. This is a parallel program that works a portion of the scheduled hours in preparation for a four-hour endurance race in February and potentially a state championship in march.

**Post-Build Season**

During March and April we continue work on the duplicate FRC robot that allows us to practice after the first robot has been sealed away. This is usually a smaller group so everyone works on an as-needed basis.

**FRC Tournament Season**

Also during March and April the team attends two FRC tournaments. One is always local (typically Pomona or Ventura) but we usually stay at a hotel because of the long days. The other is a travel event (Previously we’ve done Las Vegas, Denver and Arizona). These three-or-four day events include missing some school. Typically not everyone attends every event. Students who fall behind in their schoolwork may be restricted from attending multiple events.

Parents are welcome and encouraged to join us for any or all of each tournament.

**Championship Season**

Assuming we qualify (and we always expect to qualify) we will attend as many as four championship events. The Vex State Championship and H2AC race are both in February or March. If we win a qualifying slot at Vex States, we go to the World Championship in Louisville, KY. Or if we win an FRC regional event then we go to the championship in Detroit, MI or Houston, TX. The H2AC State Championship is in Sacramento, CA.

**Service Activities**

Throughout the year the team takes part in various community service projects. Everyone is expected to pitch in with a fair share of the work.

**Season Wrap Up**

After the championships, there is a little bit of wrap-up work to do, but we usually take it very easy for the rest of the year. Our focus is on leadership applications, service activities, planning for summer, the year-end party, sleeping and catching up on life outside of robotics. *Wait... There’s life outside of robotics?*

**Participation Standards**

Each team activity will be assigned a point value, and students are expected to schedule their team activities so that a minimum point total per month is maintained. If you do work outside of meetings you may submit a request for bonus points that can make up for missed meetings.

Points may be added or deducted based on the quality and discipline of your participation. Earning roughly 25% of all possible points is enough to remain a JV member in good standing. Approximately 60% is the minimum for varsity and 70% is expected for team leaders.

All students of all levels are expected to monitor and respond to team communications. We use a web and smartphone based app called *Ryver* to facilitate team projects and communications. Even if you have to miss meetings, you are expected to keep up with team activities via Ryver.

Academic standards, as set by parents, must also be maintained. Dipping below a pre-established parental standard will activate a team academic protocol which will place limits on what activities you can do with the team. We work with parents to present robotics as an incentive for good academic work.

**Training**

During the first part of the year, most team members will go through a training program during regular and specially scheduled meetings. This is expected to go fairly quickly, but is necessary to be able to contribute substantively to our operation. Students will have a list of training certifications to achieve and the team will guide you through them. If you miss the group training activities then you will have to schedule a make-up before moving onto a team assignment. Don’t worry though; it will be fun and highly rewarding.

*Save the date* – Vex Intensive

Our big rookie orientation event runs **September 20th though 23rd** with hours just like build season. This is a fun team- and robot-building weekend and includes team dinners and a movie night. You should try to make as much of this event as possible.

Solid Professor

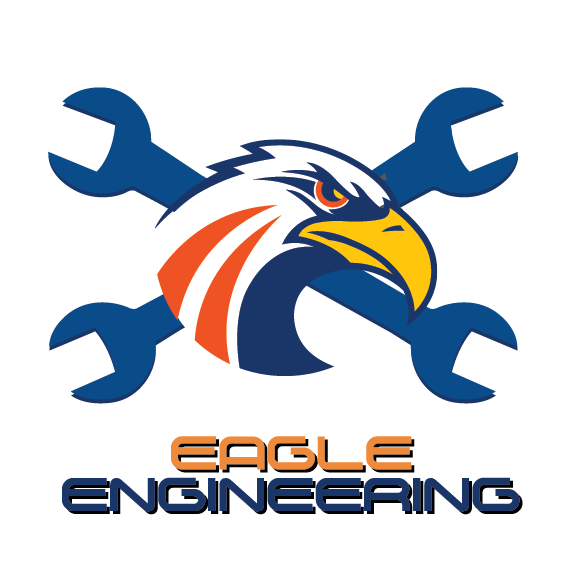
Solid Professor is an optional online training program for Solidworks, a professional CAD (Computer Aided Design) 3D modeling software package. Students who wish to learn CAD at a higher level may be awarded a license to take this online class, but they must commit to roughly 25 hours of self-directed study to be completed before build season begins. Students who fail to complete the course on time must repay the $75 fee the team paid for the course.

**Bottom Line: *It’s Quality Over Quantity***

Did you get overwhelmed? Please don’t. Here’s the important thing to take away from all this: *We value quality over quantity*. As long as you are around enough that we know who you are, we care much more about your level of engagement and your team spirit than the number of hours you put in. Certainly we have students who do it all because they really love it and this is their *main thing*. But we’ve had plenty of “bigs” on our team who split time between multiple activities.

So if you think you might pursue a future in engineering or technology then give it a try. What may start out as a passing interest could grow into a lifelong passion that will serve you with wonderful experiences and memories.

Projected Expenses



There are a number of expenses that come with being a member of the Eagle Engineering family. However we do not want anyone to be denied the experience because of financial concerns, so if these costs would cause a financial hardship, please contact program director Tommy Smeltzer at [tsmeltzer@chaminade.org](mailto:tsmeltzer@chaminade.org). Or Bo Anderson in the Chaminade financial aid office at [banderson@chaminade.org](mailto:banderson@chaminade.org).

Participation Fee $225 (mandatory for all team members)

A team participation fee of $225 is needed to offset things like team chaperone travel, refreshments and snacks for specific occasions, and other general team expenses like ground transportation. This will include one (1) competition jersey to be awarded to team members who attend a minimum number of meetings.

Uniform Fees ~$25 to $50+ (some mandatory)

An optional custom Chaminade polo with an embroidered Eagle Engineering logo can be worn as a school-approved uniform shirt to class. Estimated cost is $30 and can be used as a school uniform shirt any day. The competition uniform consists of a competition jersey (included) and black tactical pants (~$35 online). Students may also opt for team jackets and hoodies as well as extra jerseys for multi-day tournaments. It is not unusual to spend about $100 or more on team clothing but can be as low as $25.

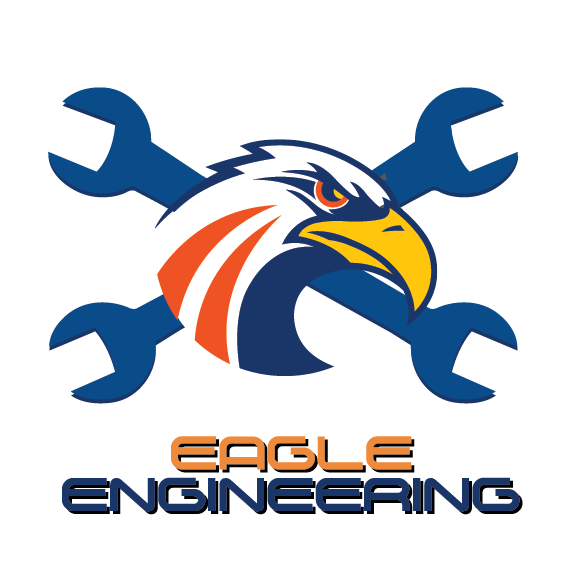
Build Season Meal ~$100 - $200 (mandatory)

During build season (the first seven weeks of the new year) the team works crazy hours, but we also bond as a family over team meals each build day. Every family agrees to provide at least one meal for the entire team during that time. Depending on the size of the team, we can often combine efforts so that families can work in pairs to provide these large meals. The cost ranges based on the kind of meal you choose to provide. (home-cooked spaghetti or catering from Olive Garden for example) This is one of our greatest team traditions.

Travel Costs $150 to $1,500+ (optional)

A number of our tournaments are local to our area and we can usually arrange for carpools to get everyone to competitions. Students are usually expected to pay for their lunch and snacks at such events. However we also have a number of events that require a multi-night hotel stay, and in some cases, air travel. Overnight events are all optional, but for highly involved members, travel expenses could become significant.

HOW TO JOIN THE TEAM



COMPLETE THE ROSTER APPLICATION

bit.ly/Team1138Apply2019

Register on InTime

Once your application is reviewed, you will receive an email invitation to join our online member management program, **InTime**.

Click the link, sign in, change your password and start scheduling yourself for meetings and activities.

Join Ryver

After you log in to InTime the first time, you will be added to our team’s Ryver Account. Then you should go to “Rookie Questions” and post a question, such as

*Hey, my name is Joe. Why do we have the number 1138 on everything?*

Complete the Online Consent Form

Have a parent go to: <http://bit.ly/team1138Consent2019> and complete your medical insurance information and sign the consent to participate form.

Pay the Participation Fee

Have a parent go to: <http://bit.ly/team1138Fees2019>

to pay the fee. If you aren’t sure about joining and want to just try it out for a while, you can put this off until September 30th.

Make sure you can sign in to meetings

We need to add you to SISO (our sign-in / sign-out station) so if you can’t log in, we need to know about it. You do this at your first meeting.

Complete the VEX Waiver Online

Have a parent complete this online form before going to a competition: <https://waiver.smartwaiver.com/w/5ab2c50d92047/web/>