



COURSE SYLLABUS
Advanced Robotics
John F. Kennedy High School
Fall 2016

- Instructor:** **Robert Greene**
E-mail: Robert-Greene@scusd.edu
- Location:** Room E-1
- Course Hours:** Mon-Fri 3:15 – 5:15 pm Room E-1
- Prerequisite:** None
- Course Description:** The Kennedy Robotics team competes in US FIRST Robotics and represents our school as a varsity team. FIRST is known as the sport of the mind.
- Required text:** All required text and info will be in an e format.
- Required Materials:** Safety Glasses/Goggles (**Z87 Rated**) (one set will be provided)
Enclosed Shoes (Oil Resistant Preferred) (**NO OPEN TOES**)
Paper & Pencils – Pen, three ring binder and flash drive.

Course Overview:

Kennedy Robotics is an award winning team with a rich history of innovation and dedication. Our team holds the members to a high standard and expects every member to specialize in a technical skill set. This course is a meeting time and location for the team and not a class offered just for elective credits. The course is limited to those who wish to become a team member. Team members who successfully participate on the team and compete at a FIRST regional event will be granted elective credits for the course. Those who do not have the dedication and drive to earn a spot on the team will be dismissed from the course. Much like any varsity team, not everyone makes the team. Standards and expectations are raised for second, third and fourth year team members. Returning members must take a leadership role in building the new team. Our team is student driven and requires much time and effort. FIRST robotics students have access to scholarship opportunities and are highly desirable to any college of engineering. Many former team members are currently studying engineering at major universities all across America.

Shop and Classroom Procedures:

Shop safety will be strictly enforced and team members will receive a high level of safety training.

Attendance:

Student attendance will be critical to the success of the team. Students who have attendance issues will be cut from the team. Students can miss no more than four team meetings.

Student Participation:

Student participation is needed to build a team. Every student will identify a skill set needed within the team and specialize with a high level of mastery. Desirable candidates will have a high level of interest in science and engineering. Prior or concurrent enrollment in an engineering class is highly recommended.

Parent Participation:

Parents are an important key to the success of the team. Parents provide dinners and other support during the winter competition season. Parents must attend the mandatory meeting in November, prior to team selection. It is important for parents to meet the team mentors and coach to learn about the program. Parents must be a part of deciding if their student is ready to join the Kennedy Robotics Team.

Behavioral Expectations:

The manufacturing lab is an industrial environment and requires a higher level of maturity. If used improperly; tools and equipment can cause bodily harm. No hazardous actions will be tolerated. Students will not be permitted to disrupt the class or the learning of others. The rules in the shop are firm, to protect students from harm and enhance the learning opportunities and better good of the class. Team members represent Kennedy high school and our school district with distinction. Behavior issues in school or outside of school will result in removal from the team. Team members represent our team at all times.

Clothing and Eye Protection:

Proper safe clothing and eye protection will be strictly enforced. No unsecured jewelry or hair will be allowed as a safety precaution.

Safety Test:

Students are required to pass the shop safety test. Students who do not complete the online safety test will be cut from the team.

Electronics Policy:

No personal electronics will be allowed or used in the classroom. Stolen, lost or damaged personal electronics will not be investigated....keep your personal electronics at home. These devices create a distraction in the learning process and a safety hazard. See the electronics policy in the student handbook. Shop computers will not have any student software or applications downloaded. School computer and electronics policy will be strictly enforced.

Grading:

First semester is a training and selection process. Students who complete the semester but do not receive a spot on the team will receive a grade based upon work completed. The second semester grade will be given to those who attend a FIRST Regional event. Those who drop off the team prior to an event will not receive a passing grade.

Academic Standing:

Students who have any of the following will be cut from the team and marginal students will be placed on probation.

- GPA less than 2.0
- Failing coursework
- Deficit of credits
- Behavior infractions
- Second letter attendance violation