Warrior Bots

SWPA BotsIQ is an educational robotics competition. It provides these students with a unique, hands-on experience that allows them to discover the possibilities of a career in manufacturing, and other science, technology, engineering, or math (STEM) fields. The course will be offers to junior and senior students as a science elective. Lessons in the program include an independent study of; A history of robotic, fundraising, safety regulations, competition rules and regulations, documentation, design, researching, measurement, material properties, shear and tensile strength, deformation, CAD metal working, 3D printing, wiring and electronics, programing and battle techniques

Class Website - https://sites.google.com/site/daysphysicsclass/
Email - mday@efsd.net
Phone - 412-896-2349 ext. 7902
Twitter - @MDayEF

BE SAFE	Listen to staff and Maintain personal space
RESPECT OTHERS	Be on time, Be polite, and Use appropriate language and tone
ACCOUNTABLE	Be prepared, Be honest, Do your own work, and Use electronic devices only when permitted
VICTORIOUS	Do your best work and Celebrate academic success
ENTHUSIASTIC	Have a positive attitude and Take ownership of learning

ACADEMIC INTEGRITY - SCIENCE

- Try! Listen! Think!
- Use your iPad and phone for educational purposes
- Be prepared for your class
- Follow directions
- Be safe in the lab
- Do not cheat
- Do not get off task or give up
- Do not damage school property

Grading Procedures

1. Grades are based on worksheets, quizzes, fundraising, participation in project design and construction and attendance of events.
   - Assignments will be given and collected weekly.
   - Weekly progress reports will be due at the end of class every Friday.
   - Quizzes will be given at various times
     - Make-up quiz will be different than the quiz given on the scheduled quiz date.
   - Bonus points will be offered at various times during the year.
2. **As per school policy:** No assignments will be taken late. Any assignment that is not turned in on the due date will be given an automatic zero.
3. **As per school policy:** Students will be given one day to make up assignments for every day they are absent. Any assignments not turned in by this make-up date will be given a zero.
4. **As per school policy:** No credit will be given for assignments that are partially or completely copied from someone else's work.

Classroom Rules and Procedures

1. Be in your seat and ready to work when the bell rings.
2. Students will only be allowed to leave class with permission.
3. Answer bell ringer questions as soon as you enter class and prepare for class to begin. Bell ringers are timed (4 minutes after bell rings) and reviewed every day.
4. Your iPad is all you will be required to bring to class daily.
   a. Your iPad is a school issued resource; I expect it to only be used as such during my class.
   b. If you choose to use your phone it may only be used for educational proposes as well.
   c. All electronics must be placed flat on the table at all times.
5. All students will be paired with another student.
   - Your partner is the person sharing your table.
   - You will be expected to help each other understand class material.
   - Groups will be split and students will work individually if both students are not actively working.
   - Students will only be permitted to talk to their partner.
6. Students are responsible for all of their own make-up work.
   - The daily list of topics covered and assignments given will be listed on the calendar on the classroom website, on Canvas, and in the weekly email.
7. Closers will be given with 3 minutes remaining in each class.

Actions for breaking classroom rules

1. Warning
2. Student conference / Parent email
3. Teacher detention / Parent phone call
4. Office referral – An office referral will be issued for all following offences

Warrior Bots Participation Agreement

Warrior Bots is a hands-on, project-based course that is driven by the requirements of the SWPA BotsIQ program (http://www.botsiqpa.org/). The entire class will be working together to complete the project. The timeline for this project will be spread throughout the entire school year.

No prior robotics or manufacturing knowledge will be needed for the course. Students will be learning all skills that they will need for the completion of the project by research and trial and error. The instructor will provide safety information and oversee the progress of the project, but this is a student driven project.

The project includes several different elements that include Fundraising and Public Relations, Budget and Ordering, Portfolio and Documentation, Competition strategy, Design and Construction, and Internals and Electrical. All students will be responsible for playing an active role in all elements of the project. This means that **each student will be required to raise money through fundraising activities that will total their portion of the cost of their project and will be graded on their ability and willingness to do so**. Several checkpoints through the year will be used to test each students' knowledge of each element of the project completion.

In order for the school to participate in the BotsIQ program, every student is required to attend several field trips. These include a tour of our industry professional's machine shop, a trip to the preliminary bouts. The 3 days of competition will start at 8am and conclude when the final bout has ended (this is usually late in the day, about 7pm)

All grades will be based on active participation in the project. By signing this, I understand that this is not a traditional course and cannot be graded by traditional means. Grades will be based mainly on students' efforts and willingness to try and learn new things.

❖ **I have reviewed and understand all of the information presented on this page.**

Student: Name _____

Signature _____

Email Address: _____

Parent / Guardian: Name _____

Signature _____

Email Address: _____