

MR. BURKHARD'S STEM- DRONES COURSE OUTLINE

Class: STEM- Drones

Teacher: Mr. Paul Burkhard

Location: Technology Lab, Room 104

Phone: (970) 834-2816

Email: pburkhard@weldre9.org



Contacting me: It will be easiest for parents to contact me via email, as I will be checking it frequently during the school day. Parents may also contact me through the phone number above. Please note that I have a website which outlines all of the coursework and deliverables for this course. It can be found at:

<http://www.highlandtechnology.org>. You can also reach me and all of my course webpage information on the district website at <https://www.weldre9.org>.

Course Content: All of the assignments for this course, as well as all of the class lectures and classroom outlines, are available at one of the two websites listed above. You will be able to exactly track the learning expectations of your student by monitoring course assignment sheets on the website and on the Infinite Campus Parent's Portal.

Hours of Availability: I will be available to meet with students for extra help during Sixth and Seventh Period each day. I will usually be in the Technology Lab each day until at least 4:00-4:30 p.m. after school. Please visit me during those times, if needed. You will need to check in at the office first!

Course Description: STEM- Drones is an advanced course for the highly motivated student. In this course, students will master drone flight control, videography and photography, as well as video and audio editing techniques.

A Word about STEM- Drones: *Students will be responsible for safe and lawful use of very dangerous and expensive drone equipment while in this class. As Mr. Burkhard is the FAA Certified Drone Pilot overseeing the class, it is a violation of his certification if his students are breaking regulations and his license can be pulled as a result. This being the case, it is the expectation that ALL STUDENTS will act in a SAFE and RESPONSIBLE manner at all times when flying drones for this course and that they follow all rules and regulations put into place for the course.. Students that cannot follow these rules and cannot act in a responsible manner in this class will be restricted in their flights and options will be considered to place the student in another class.*

Materials: For STEM- Drones students to be able to access and control our drones, EACH STUDENT WILL NEED TO BE ABLE TO USE AN iOS OR ANDROID COMPATIBLE CELLULAR PHONE. This is NOT optional, these are required to use all of our drone equipment. IF THE STUDENT DOES NOT HAVE A CELL PHONE, CONTACT MR. BURKHARD IMMEDIATELY, OTHER ARRANGEMENTS MAY NEED TO BE MADE. In addition, it will be required that the student download a number of APPS onto their cell phone for flying our drones. If the student already has their own drone, they are encouraged to use it, as long as you are able to properly complete classroom assignments, as with the drones in the Tech Lab.

Tardiness/Attendance: Students are expected to arrive on time for class. We will frequently have opening bell work that students will need to complete. Tardy students will automatically receive ZEROS on this work.

Grading: We will be completing a number of classroom assignments and projects throughout the year. Because we are a computer based classroom and because I am interested in saving trees, most of our assignments will be submitted electronically, by sharing Google files through the school network or by saving

work to our DRONE DRIVES. I will be grading on a standard 90/80/70/60 grading scale. Grades will be posted into the “Infinite Campus” system, which is accessible to parents online.

Late Work: This year, Highland is instituting a new policy regarding late work. Work that is not submitted by the due date listed on the class website or on an assignment sheet will still be eligible for submission for 75 percent credit PRIOR TO THE END OF THE CURRENT UNIT in the course. I will make sure that the class is aware of these unit dates as the year progresses.

CELLULAR DEVICES: After a rash of problematic issues with cell phones over the last academic year, Highland administrative policy now requires that students NOT have access to their cell phones in the classroom. However, the use of cell phones in Drones class is a core tool for completing course material. We use cell phones for drone flight, photography, recording, etc. This being the case, ALL students will be asked to keep their cell phones in their backpacks during class and only use them when required and approved by the instructor. Students accessing their phone for an unapproved reason will be warned regarding their behavior. The second instance of this in a class period will result in a behavior referral to the office.

Classroom Expectations: We will cover in more detail the classroom expectations at the beginning of the semester. However, if at any time, students in my classroom are disrespectful of the classroom or the learning process, I will take the following steps immediately to restore a suitable learning environment in the classroom:

1. The student will be asked to move to a different computer station in the room, likely one with little opportunity to disrupt the classroom.
2. The student may be removed to the hallway or to the school office, as per school policy.
3. A student sent to the hallway will be expected to complete a written assignment that covers the classroom material for that day. Parents and guardians will be notified of the students actions.
4. All disciplinary issues will be thoroughly documented in the Infinite Campus system. Should classroom issues continue to occur, a counseling session will be scheduled with the school principal and the family to discuss options for the student.

Projects and Assignments: In STEM- Drones, we will be having regular assignments with our drones. These will vary from smaller weekly photography assignments, to larger videography projects and capstone video projects at the end of the semester. Due to the nature of drones and their operation, I am willing to be a little flexible on these, however, students will need to communicate with me regularly about the progress of these assignments.

Out of the Classroom Activities: As flying drones requires space and fresh air, we will be going outside on a regular basis to fly our machines. It is expected that students are PROFESSIONAL and that they follow all FAA RULES FOR DRONE FLIGHT when they are outside!

✂ -----***Please Detach the Section Below and Return it to Class.***-----

Please complete the form below and have it returned by Friday, August 19, 2022, so that I have appropriate contact information for all students in my classes. Completion of this assignment is our first assignment for the semester and will be worth 15 points.

I have reviewed and have a copy of Mr. Burkhard's STEM-DRONES Course Outline:

PRINT Student's NAME: _____ Date: _____

Parent/Guardian's NAME: _____ Date: _____

Primary Contact Person: _____ Relationship: _____

Contact Phone Number: _____

****Parents, can I contact you by email, as necessary, regarding the progress of your student?** _____

If so, please give me your contact email address: _____

Parent/Guardian's Signature: _____ Date: _____