Syllabus/Aviation Class Rules

***Unmanned Aircraft Systems Pathway***

**Syllabus, Rules, and Expectations**

|  |  |  |  |
| --- | --- | --- | --- |
| **Instructor****Room #** | Mr. Merrion100 | **E-mail****Phone #** | merride@boe.richmond.k12.ga.us706-760-8140 |

Planning Period: Mon- Friday 6th period from 12:30-1:15 PM

Course Description:

**Fundamentals of Aerospace** This course is designed as the foundational course for both the Aviation Maintenance and the Flight Operations pathways. Students will gain a fundamental knowledge base in aviation history and regulations, the basic principles of flight, aerospace careers, and factors influencing work systems, aerospace technologies, and basic aviation meteorology. These concepts can later be applied to various aerospace occupations. Classroom and lab activities will assure students a thorough understanding of the aerospace environment.

**Flight Operations 1** Navigation and Communication are essential to the safe operation of aircraft within the airspace system. This course provides a foundation that enables the student to apply the basics of aircraft navigation and utilize efficient communication methods for safe aircraft operations. The prerequisite for this course is Fundamentals of Aerospace.

**Unmanned Aircraft Systems** This course provides a foundation to prepare a student to earn a commercial license to pilot an unmanned aircraft system. Topics discussed include weather and effects of weather on an unmanned aircraft; types and uses of unmanned aircraft; pre-flight planning and checks; FAA requirements; technology and remote instrumentation; radio communications, plus much more. Students will have an opportunity to earn their remote pilot license by taking and successfully passing the FAA Part 107 Exam.

**Students** **are highly encouraged** **to participate in SkillsUSA and the Aviation Club**. SkillsUSA competitive events are directly aligned with course standards. Additionally, SkillsUSA provides community service and leadership activities through opportunity to apply essential standards and workplace readiness skills through authentic experiences.

**Grading**

**Richmond County School System Grading:**

A = 90% - 100%       B = 80% - 89%C = 75% - 79%D = 70% - 74%F = 0% - 69%

**Course** **weights are as follows:**

**Major (End of chapter test, flying evaluation, simulator flying evaluation) 60%**

**Minor (Assignments/Quizzes/ teamwork projects) 40%**

**Tutoring** offered on a case by case.

**Grade Recovery**Will be held 1 to 2 weeks before the end of the semester (will be posted on canvas calendar). During that week ONLY, students will have a week to make up their classroom work that they failed or messed.

**Final Exams** final exams will count for **20%** (unless otherwise established by the State or System) of the overall grade for each high school course. The 3rd year students (only) final exam, will be a Federal Aviation Admission (FAA) commercial drone pilot certification test (part 107). This test will be taken during school hours, but off school grounds at an approved FAA location, date will be determine later.

**MATERIALS NEEDED FOR CLASS**      pen or pencil notebook for note taking

**Classroom Non- negotiables**

**Do not have both earbuds in ear, No Cursing/ Vogue language,**

 **No sitting on table, No sleeping, No electronics used in class,**

**No flying drones at other students or into other drones, no steeling of drone equipment**

* ON TIME
* IN YOUR SEAT WHEN THE TARDY BELL RING
* BRING ALL MATERIALS NEEDED FOR CLASS.
* STAY ON TASK
* FOLLOW DIRECTIONS
* COMPLETE ASSIGNED WORK
* PARTICIPATE IN CLASS DISCUSSIONS/ACTIVITIES.
* RESPECT YOURSELF, YOUR CLASSMATES, YOUR TEACHER, AND YOUR CLASSROOM
* KEEP HANDS, FEET, AND OBJECTS TO YOURSELF TO INCLUDE PROFANITY, BULLYING AND FIGHTING.
* Clean up your area, and put chairs back once class is over

**Consequences of Misbehavior**

* Verbal Warning
* Parent Contact
* Office Referral
* (\*\*NOTE: ***Depending on frequency and/or severity of issue, these may not be in sequential order and the teacher reserves the right to immediately refer a student to the office***. **Personnel or helping another student s*teeling any aviation equipment will result in legal actions and possible removal from class.***)

**Course Location**

Each courses day to day lesson and assignment will be posted in CANVAS, with their due date. It will be updated no later than the 1st of each month. Any changes during that month students will be notified by email, and verbal in class.

**Class Learning Objectives**

There are 3 courses with different and more advances learning as students advance from Fundamentals of Aerospace to Unmanned Aircraft systems pathway. The following learning objectives are learned across all classes.

1. Various Principles regarding aerodynamics of flight
2. Federal Aviation Administration Rules and Relegations for flying
3. Safety Pilot Flying Knowledge
4. Aviation Weather Terminology
5. Airport operations
6. Aviation Job employment
7. National Airspace System
8. Loading and Performance
9. Aviation map reading

**The teacher reserves the right to alter this syllabus at any time during the course**

**Drone Flying RULES**

1. READ the flying task for that day
2. Take out only what is need to fly drone to complete task
3. Check drone for any damages
4. Report all broken items to teacher (before and after flight training)
5. Check power of drone and laptop
6. Set up area for task and flying
7. Check to ensure area is clear of any other drone or students
8. Don’t let students not assigned to your class fly drone
9. Don’t leave flying area for any reason unless teacher, gives approval (if caught student, will sent to office)
10. Return all items and place used batteries on charger.

Date\_\_\_\_\_\_\_\_\_\_\_\_ current phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Print Sign\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent Print & Sign\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\*Please send back by August 26, 2022\*\*\*