

**Air Force Junior Reserve Officer Training Corps (AFJROTC) II  
2020/2021 COURSE SYLLABUS**

**Course Name:** AFJROTC II (Aerospace Science 200)

**Credit Hours:** 1 Physical Education Credit

**Instructor Names & Point of Contact Info:**

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**Required Texts:** Aerospace Science 200: *The Science of Flight: A Gateway to New Horizons*; and Leadership Education 200: *Communication, Awareness, and Leadership 2<sup>nd</sup> Edition*

**Course Description:** AFJROTC II is the second year course for cadets. The course consist of three components: Aerospace Science (AS) (40%), Leadership Education (LE) (40%), and Wellness/Physical Fitness (PT) (20%).

**AS 200 - *The Science of Flight: A Gateway to New Horizons*:** is an introductory course and customized textbook that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science-related courses and is aligned with the National Science Education Standards, the Math Standards and Expectations, and ISTE National Educational Technology Standards for Students.

Chapter 1: How Airplanes Fly (1<sup>st</sup> Semester)  
Chapter 2: Working through Flight Conditions (1<sup>st</sup> & 2<sup>nd</sup> Semester)  
Chapter 3: Flight and the Human Body (2<sup>nd</sup> Semester)  
Chapter 4: Flying from Here to There (for informational purposes only)

**LE 200 - *Communication, Awareness, and Leadership 2<sup>nd</sup> Edition*:** is a customized course designed to improve communication, enhance awareness of self and others, and provide fundamentals of leadership and followership. The course focuses on the Air Force Junior Reserve Officer Training Corps (AFJROTC) mission to “develop citizens of character dedicated to serving their nation and community.” Woven throughout is the underlying theme of developing personal integrity. The course also emphasizes leadership and values such as service and excellence.

Chapter 1: Learning and Communication (1<sup>st</sup> Semester)  
Chapter 2: Communicating Effectively (1<sup>st</sup> Semester)  
Chapter 3: Understanding Your Attitude (1<sup>st</sup> and 2<sup>nd</sup> Semester)  
Chapter 4: Understanding Your Actions (2<sup>nd</sup> Semester)  
Chapter 5: Developing Vision and Teams (2<sup>nd</sup> Semester)  
Chapter 6: Solving Conflicts and Problems (2<sup>nd</sup> Semester)  
Chapter 7: A Leadership Model (for informational purposes only)  
Chapter 8: Adaptive Leadership (for informational purposes only)

**Uniform Days (applies to both semesters):** Once uniforms are issued, students **WILL** wear the AFJROTC uniform weekly. The Dress Uniform (blues) will be worn on Wednesdays. If earned, the Airman Battle Uniform (ABU) may be worn on the first and third Wednesday of the month. Cadets may wear their TX-20081 polo shirt (type will be posted on daily announcements) or their ABUs (if earned) every Tuesday. Once issued, the Physical Training Uniform (PTU) will be worn on (Friday). If there is a different change than what is noted above, the SASI and/or ASI will send out a Remind message and e-mail. The Dress Uniform must be worn all day, as described in the Cadet Guide. If a cadet changes out of his/her Dress Uniform, a grade of “0” will be given. If a cadet is absent on a scheduled Dress Uniform day or PTU day, the uniform will be worn on the scheduled make-up day (reference the Cadet Guide).

**Drill and Ceremonies (applies to both semesters):** Military drill (marching) and ceremonies will be incorporated throughout the year and is held the same day as Wednesday Uniform Day. Drill and Ceremonies is a portion of LE.

**The Wellness Program (applies to both semesters):** Wellness is an official and integral part of the Air Force Junior ROTC program. The Cadet Health and Wellness Program (CHWP) is an exercise program focused upon learning the foundations of wellness and making individual base line improvements with the goal of achieving a Presidential Physical Fitness standard calculated with age and gender at the end of the year. The goal of the CHWP is to motivate JROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives. Cadets will be given the opportunity to put into practice the wellness concepts that are taught in Leadership Education I.

### **Course Objectives:**

#### **Aerospace Science (AS)**

1. Analyze the elements of flight. (1<sup>st</sup> Semester)
2. Evaluate how atmospheric conditions affect flight. (1<sup>st</sup> & 2<sup>nd</sup> Semester)
3. Evaluate how flight affects the human body. (2<sup>nd</sup> Semester)
4. Analyze flight navigation and the purpose of aerial navigation aids. (for informational purposes only)

#### **Leadership Education (LE)**

1. Analyze the key factors in communication and critical thinking. (1<sup>st</sup> Semester)
2. Apply the elements of effective writing and public speaking. (1<sup>st</sup> Semester)
3. Analyze the importance of attitude in daily life. (1<sup>st</sup> Semester & 2<sup>nd</sup> Semester)
4. Evaluate the ways in which personality and behavior affect relationships with others. (2<sup>nd</sup> Semester)
5. Analyze the foundation for an effective team. (2<sup>nd</sup> Semester)
6. Apply effective problem-solving and consensus-building methods. (2<sup>nd</sup> Semester)
7. Analyze the Air Force leadership model. (for informational purposes only)
8. Evaluate effective leadership and followership. (for informational purposes only)

#### **Drill and Ceremonies (Drill) (applies to both semesters)**

1. Know the importance of drill and ceremonies.
2. Know basic commands and characteristics of the command voice.
3. Apply and execute the concepts and principles of basic drill positions and movements.
4. Know when and how to salute.
5. Apply the principles and procedures of drill movements used with smaller units to the movement of a squadron.
6. Know the function of the group.
7. Know how groups.
8. Know the purpose and definition of ceremonies and parades.

#### **Wellness and Physical Training (PT) (applies to both semesters)**

1. Motivate AFJROTC cadets to adopt active, healthy lifestyles beyond program requirements and into their adult lives.
2. Create an individualized training program based on national standards by age and gender.
3. Identify areas of improvements for each cadet and provide guidance for improvement.
4. Incorporate a physical training program to reach fitness goals.

## Grading Procedures:

Semester grades will be the total of all weekly grades, projects and tests.

Normal weekly point breakout:

Aerospace Science	40
Leadership Education (includes Drill)	40
Wellness/Physical Fitness	<u>20</u>
Average weekly points possible	100

- a. Scheduled Major Exams: 1 end of year exam
- b. Major Grades: Once uniforms are issued, there will be a weekly Uniform/Drill Grade (no less than 6 per nine weeks), make-up work per Forney ISD policy.
- c. Daily Grades/Assignments: Will be included as part of the weekly AS, LE and PT grade
- d. Absences: Reference the Cadet Guide and Forney ISD Student Handbook
- e. Grades are tracked and can be seen any time thru Skyward; grades will be updated within 3-days of going final.

## Grading Scale:

- A = 90% and above
- B = 89% to 80%
- C = 79% to 70%
- F = 69% and below

**Mandatory Events:** Military Combat Dining-In (no combat will take place; it is held outside where there is room for eating, an obstacle course and building esprit de corps) and Military Awards Ceremony. Students are required to attend both events to gain an understanding of formal military events.

## Office Hours and Leadership Development Requirement (LDR) Times:

- Our standard duty hours are from 0800 – 1615. We are located in rooms 601 (classroom), 700 (the Hanger) and 705 (classroom). Please enter thru the Hanger first.
- TX-20081 LDR activities are conducted Monday thru Thursday from 1645 – 1745. Fridays and Saturdays are on a case-by-case basis.

**Activity Fee:** The annual activity fee is \$55.00 and must be paid by September 18, 2020.

## Chromebook Procedures:

1. Chromebooks will be utilized – Canvas will be the Learning Management Platform
2. Must be fully charged
3. Do not drink or eat when operating your Chromebook
4. When not in use, will be closed and grounded on the top of your desk to the right

## List of Supplies for Classroom use:

1. Limited to paper and pen or pencil
2. Majority of all work will be completed utilizing Chromebooks

**Remind:** Remind is a broadcast one and two-way message via cellular phone or e-mail to both students and parents. Parents and students are encouraged to enroll in Remind.

**For AFJROTC II Cadets (2<sup>nd</sup> year cadets) and parents: please follow the directions listed below:**



## Sign up for important updates from Chief Garcia.

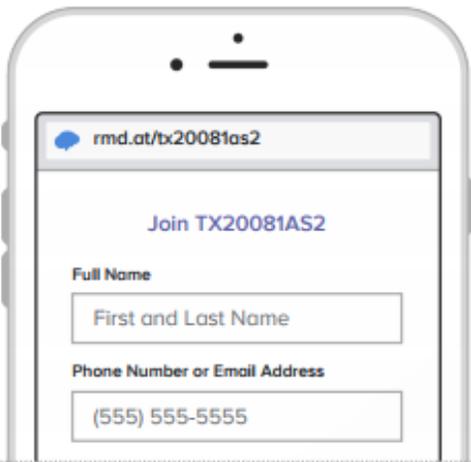
Pick a way to receive messages for TX20081AS2:

**A** If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

[rmd.at/tx20081as2](https://rmd.at/tx20081as2)

Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.

A smartphone mockup displaying a web browser page. The address bar shows "rmd.at/tx20081as2". The page content includes the heading "Join TX20081AS2", a "Full Name" label with an input field containing "First and Last Name", and a "Phone Number or Email Address" label with an input field containing "(555) 555-5555".

**B** If you don't have a smartphone, get text notifications.

Text the message @tx20081as2 to the number 81010.

If you're having trouble with 81010, try texting @tx20081as2 to (254) 382-0523.

\* Standard text message rates apply.

A smartphone mockup showing a text message interface. The "To" field contains "81010" and the "Message" field contains "@tx20081as2".

Don't have a mobile phone? Go to [rmd.at/tx20081as2](https://rmd.at/tx20081as2) on a desktop computer to sign up for email notifications.