**TX-20011 AIR FORCE JUNIOR ROTC AEROSPACE SCIENCE**

**COURSE OUTLINE/SYLLABUS / SCHOOL YEAR 2017-18**

**FLOWER MOUND HIGH SCHOOL**

INSTRUCTORS: Lt Col (ret) David Hansen, Senior Aerospace Science Instructor

MSgt (ret) David Copland, Aerospace Science Instructor

SUBJECT AREAS: Aerospace Science 100 – A Journey into Aviation History

Leadership Education 100 – Traditions, Wellness & Foundations of Citizenship

Cadet Health and Wellness Program

CREDIT: PE credit / elective credit is awarded for completion of this course

# I. Course Description/Objectives:

## A. Aerospace Science 100 (AS-100) – A Journey into Aviation History

AS-100 is an aviation history course focusing on the development of flight throughout the centuries. It starts with ancient civilizations and progresses through time to modern day. The emphasis is on civilian and military contributions to aviation; the development, modernization, and transformation of the Air Force; and a brief astronomical and space exploration history. It includes overviews of the principles of flight to include basic aeronautics, aircraft motion and control, flight power, and rockets. Unit 1, Imagining Flight and Unit 2, Exploring Flight will be covered in the Fall.

**Objectives of A Journey into Aviation History:**

1. Know the historical facts and impacts of the early attempts to fly.

2. Know the major historical contributions to the development of flight.

3. Know the contributions of the U.S. Air Force to modern aviation history.

4. Know the key events of space exploration history.

## B. Leadership Education 100 (LE-100): Traditions, Wellness and Foundations of Citizenship; Drill

LE-100 will introduce cadets to history, organization, mission, traditions, goals, and objectives of AFJROTC. It introduces key military customs and courtesies, how to project a positive attitude, and examines the principles of ethical and moral behavior. It provides strategies for effective note taking and study skills for academic success and how to be emotionally, mentally, and physically healthy. Preventing violence and how to recognize types of bullying and how to advocate for prevention of bullying will be covered. LE-100 also teaches healthy living, physical fitness, and how to make safe, drug-free, and responsible decisions. In addition, cadets will be introduced to civics and our national government, including a historical understanding of the American flag and other important national symbols, as well as how the US Constitution protects our rights and freedoms as American citizens. Chapter 1, Introduction to JROTC Programs and Chapter 2, Personal Behavior will be covered in the Fall semester

**Objectives of Traditions, Wellness and Foundations of Citizenship:**

1. Analyze the heritage, organization, and tradition of service programs.

2. Analyze the benefits of positive personal behavior.

3. Evaluate healthy living through physical activity and good nutrition.

4. Apply safe, drug-free decisions.

5. Analyze the importance of citizenship in the United States.

Drill and Ceremony is also a component of LE-100, including individual and group precision movements, saluting, ceremony, reviews, parades and the development of the command voice.

**Objectives of Drill:**

1. Know the importance of drill and ceremonies.

2. Know basic commands and characteristics of command voice.

3. Apply and execute the concepts and principles of basic drill positions and movements, including when and how to salute.

C. Cadet Health and Wellness Program

Wellness is an official part of Air Force JROTC and is an exercise program focused on individual baseline improvements with the goal of striving to achieve a national standard and also includes team sports. Cadets will wear issued workout clothes and athletic shoes on Wellness days, typically Fridays.

**Objective:**

Motivate AFJROTC cadets to lead active, healthy lifestyles beyond program requirements and into their adult lives.

**II. Grading / Evaluation**

1. Assessments

All assessment grades are based on a 0-100 point scale and include uniform inspections, essays, reports, class presentations, and projects.

Wear of the AFJROTC Cadet Uniform is **MANDATORY** once a week *(typically Wednesday)*. Improper wear of the uniform or not wearing the uniform to all classes (without prior-instructor approval) on uniform wear day may result in an inspection score of zero. **Habitual non-wear of the uniform and failure to maintain standards will result in a failing grade and removal from the program.** Guidelines for uniform wear can be found in Air Force Instruction 36-2903, excerpted in the TX-20011 Cadet Guide.(tx-20011.wixsite.com/jrotc-website/cadet-resources)

1. Class Work

Class work grades are based on a 0-100 point scale and include lessons from the Aerospace Science and Leadership Education textbooks, worksheets, quizzes, chapter tests, stationary drill and marching.

**NOTE: Homework/Make-up Policy**

1. It is the cadet’s responsibility to find out what assignments were missed due to absence.
2. Cadets are expected to turn-in assignments the first day back after an absence.
3. Students are to be in uniform the first day back to class if they missed a required uniform wear day.

C. Cadet Health and Wellness Program

Wellness Training will normally be conducted on ***Friday*s**. Each cadet’s grade will be based on wearing physical training clothing and active participation in the wellness training exercises. Cadets with a documented medical excuse will be exempt from participation.

D. Semester Examinations

Examinations will be administered at the end of the first and second semesters and will count 15% of the student's total grade. Semester exams will include all topics covered during that term.

**GRADING SCALE USED IN LEWISVILLE INDEPENDENT SCHOOL DISTRICT**

**Grade Percentage Required**

A 90% and above

B 80% - 89%

C 70% - 79%

F 69% and below

**GRADING POLICY BREAKDOWN BY CATEGORY IN SKYWARD**

MAJOR GRADE 45% (Academic tests and uniform inspections)

QUIZZES 35%

PARTICIPATION 20% (Wellness/PT uniform and in-class work)