



West Mecklenburg High School

Air Force Junior Reserve Officer Training Corps



Course Syllabus, SY21-22

INSTRUCTORS

- Lt Col James Bernard Cowan, jamesb.cowan@cms.k12.nc.us
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REQUIRED TEXTS/MATERIALS/REFERENCES

- AS 100: Milestones in Aviation History, 2nd Ed., Chapter 1
- AS 300: Exploring Space: The High Frontier 2nd Ed., Chapter 1-3, and 8
- LE 100: Traditions, Wellness, and Foundations of Citizenship, Chapter 1, 2, and 5
- LE 300: Life Skills and Career Opportunities, Chapter 1-4
- AFJROTC 36-2010, Air Force Junior Reserve Officer Training Corps
- AF Manual 36-2203, Personnel Drill and Ceremonies, V-2627
- Operational Supplement Chapter 7: Uniform and Awards
- AFJROTC Curriculum Guide, 2020
- AFJROTC Honors Project Rubric
- AFJROTC NC-053 Cadet Guide
- AFJROTC Recommended Instructional Areas
- AFJROTC NC-053 7-Year Curriculum Plan
- Selected videos

POLICY

The Department of Defense funds JROTC programs to instill students of U.S. secondary educational institutions with:

- The value of citizenship
- The value of service to the United States
- The value of personal responsibility
- A sense of accomplishment

COURSE DESCRIPTION & OBJECTIVES

AFJROTC 1A-1B/1B-4B are identical (same curriculum) courses for all cadets and delivered through blended classes that may contain 9th, 10th, 11th, or 12th graders learning together. The course consists of three components: Aerospace Science (40%), Leadership Education (40%), and Wellness/Physical Fitness (20%).

COURSE SCHEDULE

AFJROTC Unit NC-053 7-Year Curriculum Plan	YEAR 2 OF 4	
	2021-2022 School Year	
	Fall Semester	Spring Semester
CADET YEAR	JROTC 1A, 2A, 3A, 4A/1B, 2B, 3B, 4B	JROTC 1A, 2A, 3A, 4A/1B, 2B, 3B, 4B
First through Fourth Year Cadets	AS-100, Chpt 1	
	LE-100, Chpt 1, 2, 5	
	AS-300 Chap 1, 2	AS-300 Chap 3, 8
	LE-300 Chpt 1, 2	LE-300 Chpt 3, 4
	Wellness	Wellness
	Drill & Ceremony	Drill & Ceremony
	JROTC 1A, 2A, 3A, 4A/1B, 2B, 3B	JROTC 1A, 2A, 3A, 4A/1B, 2B, 3B
Honors (Optional for Third and Fourth Year Cadets)	AS-100, Chpt 1	
	LE-100, Chpt 1, 2, 5	
	AS-300 Chap 1, 2	AS-300 Chap 3, 8
	LE-300 Chpt 1, 2	LE-300 Chpt 3, 4
	Wellness	Wellness
	Drill & Ceremony	Drill & Ceremony
	Honors Project	Honors Project
	Advanced Leadership Position	Advanced Leadership Position

STANDARD CLASS WEEK

AS 100: Milestones in Aviation History 2nd Ed. (Chapter 1), Exploring Flight (Chapter 1)

This is the recommended first Aerospace Science (AS) course. Chapter 1, “Exploring Flight,” reviews the development of flight over the centuries from early civilization through the Wright Brothers and other early aviation pioneers.

The Learning Outcomes for Chapter 1:

1. Examine the contributions of early civilization on heavier-than-air flight
2. Analyze the significant contributions in early developments of flight
3. Summarize the contributions to the development of flight by the Wright Brothers
4. Examine key contributions of other pioneers of aviation following the Wright Brothers

AS 300: Exploring Space: The High Frontier, 2nd Ed., Chapter 1-3, and 8

This course provides cadets with the latest information on exploring space and an introduction to cybersecurity and technology.

Chapter 1, “The History of Astronomy,” describes prehistoric and classical astronomy, models of astronomy from the renaissance period, enlightenment era and modern astronomy.

The Learning Outcomes for Chapter 1

1. Describe the key prehistoric and classical astronomy models
2. Explain the models of astronomy discovered during the renaissance period.
3. Describe the models of astronomy from the enlightenment period and modern ages.

Chapter 2, “The Solar System,” focuses on the Earth and the Moon and the relationship between each other; analyzes the Sun’s energy and investigates the formation of our solar system; examines the planets and other objects found within the solar system; and discusses deep space exploration.

The Learning Outcomes for Chapter 2

1. Describe the components of the Earth and the Moon
2. Analyze the Sun and the structure of the solar system
3. Examine the planets and objects of the solar system
4. Explore the Milky Way galaxy and deep space

Chapter 3, “Space Exploration,” analyzes the benefits of space exploration, by both NASA and private industry; discusses the components necessary for a successful space mission; and explores the hazards for spacecraft.

The Learning Outcomes for Chapter 3

1. Analyze the current strategic goals for space exploration
2. Evaluate the key components of planning a space mission
3. Investigate hazards faced by spacecraft while in space

Chapter 8, “Cyber Security,” defines cybersecurity and examines cyber threats to US space assets; explores strategies for protecting US assets, examines cybersecurity principles for individuals; explores basic methods for protecting yourself from cybersecurity attacks; and examines cybersecurity policies of the US military and government.

The Learning Outcomes for Chapter 8

1. Examine the basic fundamentals of cybersecurity
2. Examine the principles of cybersecurity and the basic methods for protecting your computer
3. Examine cyber security policies of the US military and government

LE 100: Traditions, Wellness and Foundations of Citizenship (Chapters 1, 2 & 5)

Through this Leadership Education (LE) course, cadets are introduced to history, organization, mission, traditions, goals, and objectives of JROTC for all services. It introduces key military customs and courtesies, how to project a positive attitude, and examine the principles of ethical and moral behavior. It provides strategies for effective note taking and study skills for academic success.

The Learning Outcomes for Chapter 1

1. Identify the purpose and structure of the JROTC Programs
2. Determine proper wear of the military uniform
3. Apply customs and courtesies in the Junior ROTC environment
4. Demonstrate the roles of respect and integrity in Junior ROTC
5. Demonstrate ethical concepts
6. Demonstrate proper etiquette in social settings

The Learning Outcomes for Chapter 2

1. Analyze effective methods of taking notes and studying for exams
2. Determine the main causes and effects of stress
3. Outline steps required to achieve personal goals
4. Examine when and how to seek professional mental health care
5. Evaluate methods on how to protect yourself and others from violence

The Learning Outcomes for Chapter 5

1. Explain the history and courtesies rendered to the flag of the United States and other symbols
2. Analyze the duties and responsibilities of citizenship
3. Describe the content of the United States Constitution
4. Interpret the content of the Bill of Rights and other amendments
5. Summarize the duties and responsibilities of the three branches of government

LE 300: Life Skills and Career Opportunities (Chapters 1-4)

Life Skills and Career Opportunities, Second Edition, provides an essential component of leadership education for today's high school students. This course is designed to prepare students for life after high school in the high-tech, globally oriented, and diverse workplace of the 21st century.

The Learning Outcomes for Chapter 1

1. Create a personal budget and financial plan
2. Analyze services when choosing a bank
3. Evaluate the buying and selling issues that occur in real life

The Learning Outcomes for Chapter 2

1. Construct a plan for building your credit history
2. Evaluate the advantages of having property protected

The Learning Outcomes for Chapter 3

1. Create a career path strategy to assist in making career decisions
2. Evaluate the types of career paths as related to interests/aptitude/attitude
3. Analyze the requirements needed to pursue the career that best fits personal skills and interests

The Learning Objectives for Chapter 4

1. Create a personal plan for financing college
2. Evaluate the criteria for selecting a college based on your personal goals
3. Create test-taking strategies to promote success on college placement exams
4. Create a college application essay

Honors Course Credit

For third- and fourth-year cadets who aspire to earn academic honors credit from West Mecklenburg High School, they may enroll in our AFJROTC NC-053 Honors program. To receive honors AFJROTC course credit, a cadet must:

1. Pass their AFJROTC class
2. Effectively serve in a senior leadership position within the NC-053 Cadet Corps during the entire school year. Senior leadership positions are assigned to the Group Staff and serve the entire NC-053 Cadet Corps. Positions include Group Commander, Deputy Group Commander, Operations Commander, Mission Support Commander, Logistics Commander, etc.
3. Complete an honors project during the school year to include maintaining an on-going portfolio that describes project objectives, milestones, and activities and preparing and delivering to their class a short 5-8 minute PowerPoint presentation about their project. The honors project will be graded in accordance with the AFJROTC Honors Project Rubric.

Drill & Ceremonies (Chapters 1 – 4)

This course provides an in-depth introduction to drill and ceremonies. The course concentrates on the elements of military drill, and describes individual and group precision movements, procedures for saluting, drill, ceremonies, reviews, parades, and development of the command voice. Students are provided detailed instruction on ceremonial performances and protocol for civilian and military events and have the opportunity to personally learn drill.

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 and the wing
7. Know how groups and wings are formed
8. Know the purpose and definition of ceremonies and parades.

WELLNESS PROGRAM

Wellness is an official and integral part of the Air Force Junior ROTC program. Regular physical activity, good nutrition, and adequate sleep at night promotes the health and fitness of our cadets. We aim to motivate cadets to adopt and sustain an active and healthy lifestyle beyond AFJROTC program requirements. Compared to those who are inactive, physically active youth have higher levels of cardiorespiratory fitness and stronger muscles. Their bones are stronger, and they may have reduced symptoms of anxiety and depression. Youth who are regularly active also have a better chance of a healthy adulthood.

Cadets are expected to dress out in their Physical Training Uniform (provided at no cost by AFJROTC to each cadet) and participate in physical training class every two weeks (typically, every other Friday). Physical training will include stretching, running, and a team-oriented sport. Cadets will participate in physical activity that aligns with their signed Parental Consent Form. We encourage cadets to work up to participating, on their own time, in age-appropriate moderate to vigorous regular physical activity, as described in “Physical Activity Guidelines for Americans,” 2nd Edition, US. Department of Health and Human Services.

Aiming to measurably improve cadet fitness over the course of the school year, cadets will complete an initial Physical Fitness Test within the first 45 calendar days of school to determine each cadet’s baseline fitness level. We will also conduct a final Physical Fitness Test among cadets no later than 30 calendar days before the end of the school year to determine cadet’s overall fitness improvement.

UNIFORM WEAR (Major Grade)

- AFJROTC uniform: Weekly, on alternating Wednesdays and Thursdays, cadets are **required** to wear the uniform throughout the day, from the start of the school day until released
- Failing to wear the uniform all day will result in a “50” (posted as a Failing Grade) for that uniform day inspection
- **Habitual (more than 4 per semester) non-wear of the uniform and failure to maintain AFJROTC dress and appearance standards will result in a failing grade for the course**
- At the discretion of AFJROTC instructors, uniform make-up days may be provided for cadets who report to class on uniform inspection days, and are not wearing their uniform
- There will be uniform make-up days for excused absences from class. The cadet shall wear the uniform the very next day they’re in school and report to the AFJROTC classroom for inspection.
- We also allow for wearing of the uniform the day before a known appointment on Wednesday or Thursday.
- There will be **no** uniform make-up days for **unexcused** absences from class
- Cadets are required to wear their issued **Physical Training** Uniform and **athletic shoes** and bring a **water bottle** while participating in Physical Training when in class on Fridays
- At the end of the school year, cadets are required to turn in their uniforms (service coat, lightweight blue jacket, shirt, pants/skirt, and belt). If these items are not returned, the cadet will receive a failing grade for the course until items are returned to us or we are paid for their loss.
- Cadets or their parent/guardian is responsible for paying for damaged beforementioned uniform items. Cadet will receive a failing grade for the course until damaged items are replaced or paid for.
- We encourage cadets to return serviceable shoes, hats, ties, tabs, and rank insignia. While the return of these items isn’t required, it does save us money when these items, in good condition, are returned.
- **At the beginning of the school year, parents/guardians must pay a \$30.00 fee which covers dry cleaning of the uniform at the end of the school year**

GRADES

• Academics (exams, quizzes, classroom assignments)	40%
• Uniform inspections/wear	40%
• Health/wellness participation	20%

GRADING SCALE

A	90 and above
B	80 - 89
C	70 - 79
D	60 - 69
F	59 and below

EXAM/PROJECT (Major Grade):

There will be a comprehensive mid-term exam covering first semester topics and a final exam covering second semester topics.

QUIZZES

Quizzes will be administered throughout the course. Quizzes will cover all material taught since the last quiz or exam.

CLASS ATTENDANCE, PREPARATION AND PARTICIPATION

Today's workforce does not earn a paycheck unless they show up ready for work. Cadets earn grades commensurate with their class participation and effort. Cadets who are absent or unprepared cannot participate fully in class. This is especially key to drill and physical fitness. Class preparation includes adopting and maintaining a growth mindset; bringing items to take notes; adherence to all school rules; and coming to class on time.

CELL PHONE USE IS PROHIBITED

Consistent with West Mecklenburg High School policy, cell phones are **not** to be used during class. The ringer must be turned off and the cell phone put away by storing in the cadet's backpack or placing in the class cell phone charging station for the duration of class.

ASSIGNMENTS

Assignments are typically assigned and completed during class and are often graded assignments. Cadets who are absent from class will complete the assignment on their own time, as homework, and turn it in on the due date set by an AFJORTC instructor.

COMMUNITY SERVICE

Cadets will have multiple opportunities to perform Air Force JROTC sponsored community service during each semester (both in and away from school). Community service is an outstanding learning experience, strengthening cadet leadership and teamwork skills. Community service is necessary for promotion to higher rank and earning ribbons, an appreciation and recognition for serving others.

LEADERSHIP DEVELOPMENT REQUIREMENTS (CO-CURRICULAR ACTIVITIES)

Leadership Development Requirements (LDRs) are activities which are a critical component of a successful AFJROTC unit and are incorporated into our program. Each year, based on cadet interest, we offer a variety of LDRs to maximize cadet participation. We encourage our cadets to join and actively participate in an LDR. LDR activities are AFJROTC-sponsored and school-approved teams and/or committees that normally plan or participate in events conducted outside classroom hours (e.g. before school/after school/homeroom-advisory). These events are planned, organized and executed by the cadet corps while being supervised by the AFJROTC Instructor. Examples of LDR teams include those participating in competitions such as CyberPatriot, drill, orienteering, Raiders, and JROTC/Joint Leadership & Academic Bowl. Other teams serve the community such as an Awareness Presentation Team or Color Guard team.

CURRICULUM IN ACTION TRIPS (CIA)/FIELD TRIPS

During the school year, cadets will have the opportunity to participate in an AFJROTC-sponsored Curriculum In Action (CIA) Field Trip. This trip is an educational activity and an extension of our AFJROTC curriculum. The Field Trip is a privilege, **not** a right. Cadets must be in good academic (i.e. no "Ds" in any classes) and disciplinary (i.e. no in or out of school suspensions, no reports from teachers or school administrators of poor behavior) standing to participate.

FUNDRAISING

Each school year, we conduct at least one fundraising activity. We use the funds to help pay the costs for the CIA Field Trip. All cadets are expected to participate in the fundraising activity. Cadets who don't help with fundraising will pay for their CIA Field Trip if they choose to go on the trip.

CADET ATTITUDE AND BEHAVIOR

The nature of AFJROTC and its mission, our association with the United States Air Force (USAF), a very highly respected organization in our society, and our high visibility within the school and community, requires our members (AFJROTC cadets) to adhere to higher standards than might be found among the general student population.

Integrity, service to others, and excellence, core values of the USAF and AFJROTC, demand that cadets demonstrate **appropriate attitude and behavior**, in or out of uniform. This proper behavior includes, but is not limited to caring for others, respecting others, serving others, pride in oneself, adopting and maintaining a growth mindset, expressing a positive “can do” attitude, exhibiting self-control and maturity, always doing what is right even when it takes courage to do so and even it’s unpopular, a commitment to doing things to the very best of our abilities, and adopting a healthy lifestyle free of consuming alcohol, drug abuse, and tobacco use (to include vaping).

EXPECTATIONS FOR CADETS

- AFJROTC senior Cadet Officers demonstrate respect for our Cadet Corps by adopting a “heart for service,” realizing they are privileged to lead, represent, and serve our Corps of Cadets
- Demonstrate respect by striving to use the titles sir/ma’am when addressing AFJROTC staff and senior Cadet Officers
- Follow the chain of command if you need assistance
- Enable AFJROTC instructors to teach and cadets to learn, by:
 - Performing the 10-Step Protocol at the beginning of class
 - Being on-time to class, scheduled events, practices, etc
 - Always bringing your required items to class (issued chromebook or laptop, notebook, pen/pencil)
 - Placing personal belongings/cell phone in designated areas before class begins
 - Adopting and maintaining a growth mindset to include accepting constructive criticism positively
 - Raising your hand, waiting to be acknowledged
 - Listening respectfully and attentively to the speaker/presenter or fellow cadets when they are speaking
 - **Doing those things you know would make the AFJROTC instructors happy!**
 - Perform the Closing Protocol at the end of class
- Wear the correct uniform on the weekly day of uniform inspection

CLASSROOM PROCEDURES

- Beginning of class
 - Enter the classroom and proceed directly to your desk
 - Place books, back packs, and cell phone in designated areas
 - Chromebook/laptop, notepad or paper, and pen or pencil on desk
 - When warning bell sounds, calm down and prepare to fall-in at the back of the classroom by Element
- The Flight Commander/Flight Sergeant will prepare class for lesson
 - 10-Step protocol (to include taking attendance) begins with Flight Commander saying **“Flight Fall-In”** and ends with the Flight Commander saying **“Flight Fall-Out”**
 - Assure cadets return to their seats
 - Assure items stowed properly including cell phone
 - Assure notepad or paper and pen or pencil on desk

- Class dismissal
 - Approximately three minutes before the class dismissal bell rings, the Flight Commander will prepare the class for dismissal
 - Cadets will stop class work and Flight Sergeant will collect work assignments and give to AFJROTC instructor
 - Cadets will put books and classroom materials away then clean up their desks, pick up any trash in the immediate vicinity of their desks, align their desks with others in their element, and then stand quietly behind their desks at the position of Parade Rest and wait for the bell to ring
 - The Flight Commander/Flight Sergeant will check that books/classroom materials have been put away, all trash is picked up and the desks are aligned.
 - AFJROTC instructors will share comments, if any, and then direct the Flight Commander to proceed in dismissing the flight when the bell rings
 - When the bell rings, the Flight Commander will call the room to attention by saying **“Flight Attention”** followed by **“Flight Dismissed.”** Cadets will promptly retrieve their personal belongings and depart the classroom.
- At any time, when an adult (not an AFJROTC instructor) enters the classroom, the first cadet to see the person will call the room to attention by stating, **“Flight Attention.”** When the person or an AFJROTC instructor says **“Carry On,”** the cadets sit back down quietly.

QUESTIONS/CONCERNS

Cadets are welcome to connect with AFJROTC instructors whenever they have any questions, concerns, or need extra help. We want cadets to be successful at West Mecklenburg High School and successful upon graduation. Instructors encourage parent/guardian involvement and feedback. Cadets and parents/guardians may reach Lieutenant Colonel Cowan at (704) 794-3894 (voice or text message) or jamesb.cowan@cms.k12.nc.us. MSgt Saunders may be reached at (980) 343-6080 or kevin.saunders@cms.k12.nc.us

Please sign and return the following page as an acknowledgement of the course syllabus and requirements.



Dr. James Bernard Cowan
Lieutenant Colonel, U.S. Air Force (Retired)
Senior Aerospace Science Instructor



Kevin W. Saunders
Master Sergeant, U.S. Air Force (Retired)
Aerospace Science Instructor



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Air Force Junior Reserve Officer Training Corps



Course Syllabus, SY21-22

I have read the Air Force JROTC Course Syllabus and understand and agree to the expectations to include: mandatory wear of the uniform, uniform return, dry cleaning fee, fundraising, and class participation.

Date

Cadet Printed Name

Cadet Signature

Parent/Guardian Printed Name

Parent/Guardian Signature

Parent/Guardian Contact Phone Number

Parent/Guardian Contact e-mail