

# MAA Bylaws

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## Model Aeronautics Association 2025-2026 Academic Year

### Article I: Name and Purpose

#### Section A: Name

The name of this club shall be “Model Aeronautics Association”, hereafter referred to as “MAA”.

#### Section B: Purpose

The purpose of the Model Aeronautics Association (MAA) will be to offer students of Forsyth Central High School a well-structured and academically related setting in which to study the principles and practices of model aeronautics, aviation, and aerospace engineering. The organization will be an official student chapter of both the Academy of Model Aeronautics (AMA) and the National Free Flight Society (NFFS), and will conduct its affairs in accordance with the rules and standards of said organizations and attend affiliated competitions. The MAA will be an extracurricular academic and technical club aimed at the learning of STEM-related concepts and skills through the iteration of design and operation of model aircraft. Besides aerospace related extracurriculars, the club will encourage teamwork and leadership, all intersecting within the responsible use of aerospace technologies. Thus, the club serves as a bridge for members to interact with the opportunity to engage in sanctioned competitions, outreach activities, and collaborative projects reflecting real-world uses of engineering and aviation science.

#### Section C: Mission Statement

The mission of the Model Aeronautics Association (MAA) pertains to the inspiration and support of students in exploring the fields of aviation, model aircraft, and aerospace engineering through hands-on experiences. The club is dedicated to making aerospace engaging through the employment of STEM education based technical learning and skills engaging by connecting aeronautical concepts with real-world applications in model aeronautics. Through collaborative technical skill-building and participation in competitions, MAA dedicated itself to promoting innovation and personal growth for those interested. The organization values inclusion, leadership based learning, and a supportive learning environment where students of all backgrounds and experience levels can work together, pursue their interests, and prepare for future opportunities in engineering, aviation, and related fields. This club will serve as a much needed opportunity for aerospace engagement and participation.

### Article II: Objectives

## **Section A: Principles of Aircraft Design**

MAA will teach members the principles of physics, aerodynamics, and engineering required for building and flying aircraft, as well as the principles at play behind aircraft endurance.

## **Section B: Design and Simulation of Model Aircraft**

MAA will teach members how to use SolidWorks to design model aircraft parts and integrate them into an assembly. Additionally, members will be taught how to use simulation software such as SolidWorks Flow Simulation to model in-flight performance.

## **Section C: Construction of Model Aircraft**

MAA will teach members how to construct their own model aircraft to be flown in accordance with a variety of guidelines, including but not limited to:

- Academy of Model Aeronautics - Class F1D, RC Sportsman
- Technology Student Association - Flight Endurance
- Science Olympiad - Helicopter

# **Article III: Membership**

## **Section A: Eligibility**

Any Forsyth Central High School students with an interest in Engineering can join. Students must join one of the sub-teams indicated in Article III Section A: Enrollment.

## **Section B: Dues**

Students are required to pay a membership due (listed on SchoolPay) to officially be considered members. The exact amount of the due will be posted by the President of MAA through all of the club's communication platforms.

## **Section C: Enrollment**

Enrollment into MAA is complete once a student signs up under an official sub-team, submits a completed membership form, and pays the membership due. Members are required to participate actively in both club meetings and their respective sub-team projects—unless they are unable to for a reason approved by the president and advisor—and possible community service opportunities as to be decided.

# **Article IV: Leadership Structure**

## **Section A: General Duties of Officers**

When assigned or elected, all officers officially agree to represent Forsyth Central High School and MAA in a professional and respectful manner, and agree to follow the Forsyth Central Code of Conduct. Failure to do so will result in the removal of leadership, followed by any other disciplinary measures deemed necessary by the advisor. Additionally, all officers are responsible for thoroughly documenting the work done by their respective sub-teams. Failure to do so may result in the removal of leadership if deemed necessary by the president.

## Section B: Leadership and Leadership Responsibilities

### President

- Oversees all club operations and long-term planning
- Represents the club to faculty, sponsors, and external organizations
- Sets agendas and leads general and officer meetings
- Coordinates with all team leads to ensure project cohesion

### Vice President (*if applicable*)

- Supports the President
- Assists with coordination between sub-teams
- Helps manage administrative responsibilities and large-scale events

### Mechanical Lead(s)

- Oversees the design, construction, and testing of aircraft components
- Responsible for teaching CAD, circuitry, and manufacturing to all members under this sub-team
- Provides guidance to members during build sessions
- Coordinates access to tools, materials, and safety procedures

### Programming Lead

- Manages all software-related components of flight systems
- Responsible for teaching coding, sensor integration, and data analytics to all members under this sub-team
- Oversees sensor integration, control algorithms, and data logging
- Supports other teams with coding or digital troubleshooting

### Physics Lead

- Applies principles of aerodynamics, propulsion, and structural analysis
- Teach the physics principles at play during flight to all members under this sub-team
- Assists other teams with technical modeling and theory-based planning
- Ensures designs are optimized for flight performance

### Business/Possible Marketing Lead(s)

- Oversees sponsorship outreach, fundraising campaigns, and branding
- Creates promotional materials and manages public relations
- Supports the Treasurer with budget justification and communication

## **Article V: Club Model**

### **Section A: Sub-Teams**

To facilitate project-based collaboration and specialization, MAA will be divided into sub-teams. Each member will join one based on their interest or assigned role. The sub-teams are the following listed below:

- Design & Flight (Mechanical Team)
- Human Operation (Pilot Team)
- Programming (Programming Team)
- Physics & Testing (Physics Team)
- Business and Logistics Team

### **Section B: Competitions(Held by Competition Leads)**

**MAA will participate in many of the competitions** organized by the Academy of Model Aeronautics (AMA), the National Free Flight Society (NFFS), and other regional programs if applicable. Competitions will be selected from the club's official list of approved events. Participation in competitions is mandatory for all members and will be organized by competition leads, who will

- Organize and oversee event preparation and logistics.
- Communicate deadlines and competition requirements to members.
- Coordinate with the President and faculty advisors for approvals.

**Transportation and lodging (if applicable)** will be discussed on a case-by-case basis. All plans for transportation and lodging must be approved by the faculty advisors before confirmation.

## **Article VI: Meetings**

### **Section A: General Meetings**

- General meetings will occur on the first and third Thursday of each month during the school year (to be adjusted if reasons are specified by officers), and during the wellness periods of school during the second and fourth Wednesday of each month during the school year.

- All members are required to attend at least two meetings during every month of the school year, unless the following circumstances arise, in which case all members are required to attend only one meeting per month:
  - The month is cut short by a school break (e.g. winter break)
  - The member provides a reason for absence at least 24 hours in advance, which is approved by both the president and advisor
  - The advisor deems it necessary to cancel a meeting
- Meetings will be scheduled after school hours in a designated classroom or lab space (unless certain scenarios arise)
- Agendas will typically include:
  - Officer and team updates
  - Project planning and coordination
  - Technical workshops or presentations
  - Competition and fundraising updates
- Attendance at general meetings is expected of all members unless excused in advance by an officer or the advisor(s).
- Meeting reminders will be sent in advance by at least 48-72 hours through official club communication channels (e.g. GroupMe).

### **Section B: Sub-Team Meetings**

Sub-teams will meet weekly, most likely on the same day with time and location determined by each team lead based on availability, most likely in open spaces for testing such as the dome gym, or teacher classrooms. Such weekly meetings will focus on:

- Design, testing, and construction
- Project milestones and documentation
- Preparation for upcoming competitions

### **Section C: Officer Meetings**

Officers will meet at least once per month, typically during Dawg Time or an advisory period, as scheduled by the President and agreed upon by officers. The subsequent meetings to follow yearly club launch will include:

- Review of club operations and goals
- Budget and finance updates from the Treasurer
- Planning of upcoming events and competitions
- Discussion of any member concerns or issues

### **Section D: Additional Meetings**

Additional meetings may be called as needed for the following:

- Competition preparation
- Guest speaker events or mentor sessions

- Emergency updates or time-sensitive decisions (Most likely done through group me)

Members will be given at least 48 hours' notice unless impossible to do so.

## **Article VII: Leadership Selection System**

### **Section A: Selection Process**

Leadership positions within the Model Aeronautics Association (MAA) will be filled through an application and interview process held at the end of each academic year. All members in good standing are eligible to apply for officer roles. A selection committee consisting of the current leadership team will be conducted alongside the supervision of a club advisor. Such selection processes are to be unbiased and objective apart from actions committed within the club.

### **Section B: Leadership Removal**

Officers may be removed for the following reasons:

- Resignation
- Violation of the FCS Code of Conduct
- Violation of any aforementioned duties required of officers and members

## **Article VIII: Code of Conduct**

### **Section A: General Rules**

All members must act respectfully, responsibly, and safely during all club activities. This includes following school rules, club safety guidelines, and advisor instructions. Disruptive or unsafe behavior may lead to removal from meetings or the club. Members are expected to work well with others, help create an inclusive environment, and show commitment to learning and teamwork.

## **Article IX: Amendments and Advisor Authority**

### **Section A: Amendments and Advisor Control**

Changes to these bylaws can be suggested by any member but must be reviewed by the club officers and advisor(s). An amendment will only pass with a two-thirds vote from officers and approval by the advisor(s). The advisor(s) have final authority to make or change rules if needed to follow school policies or support the club's function.