2024 ROBOTICS STATE TOURNAMENT

Sponsored by FIRST in Upper Midwest and Presenting Partner-MSHSL

Season Begins

The season shall correspond with all dates and guidelines outlined by the FIRST Robotics Competition.

Contest

All FIRST robotics teams in Minnesota are eligible to participate in the 36-team MSHSL State Tournament held on May 4th, 2024 at Williams Arena on the University of Minnesota Twin Cities campus. Teams will qualify for the event based on their performance at *FIRST* regional events, regardless of the location of those events.

Teams will be charged \$1000 entrance fee and are responsible for their own transportation, food, and housing expenses. Please note that unlike other MSHSL activities robotics teams do not pay an annual registration fee when they register with MSHSL. This entrance fee will be the only MSHSL fee for robotics.

Team load-in, pit setup, robot inspection, and field connection testing will occur on Friday, May 3th in the evening.

Robot Requirements

Teams will follow all the rules and guidelines of the FIRST Robotics Competition. Each robot must pass inspection to compete.

Team Membership

All students eligible for membership on a FIRST Robotics team will be eligible for the State Tournament. Students must be in Good Standing as defined by MSHSL rules to participate. Exception: No students in grade 6 or under will be eligible.

Regions

All Minnesota robotics teams belong to one of eight geographic regions. The Minnesota Robotics Coaches Association with approval from MSHSL assigns teams to regions with the goal of creating meaningful geographic groups with a similar number of teams.

Region assignments are available at https://www.mshsca.org/regions.

MSHSL Eligibility Information Brochure

Prior to participation in the state co-sponsored event, the student and one parent or guardian must sign and return one copy of the 2024 Robotics Eligibility Form to the student's school or the lead team mentor. The student and parent or guardian signature will certify that they have read, understand, and agree to abide by the information provided. The form may be found at the bottom of this page: https://www.mshsl.org/sports-and-activities/robotics

State Tournament Qualification

Teams qualify based on their performance at their initial *FIRST* Robotics Competition regional event. Teams earn state tournament points as per the table below. State tournament points are based on the district point system outlined in section 11.1 of the 2024 FRC Game Manual, with some modifications because teams only earn points for the first event they attend.

Once all regional events have concluded and *FIRST* in Upper Midwest has calculated state tournament points the 36 slots available at the MSHSL State Tournament are assigned as follows:

- The two highest ranked in each region will receive an invitation
- The remaining teams receive an invitation in ranking order regardless of region

Many of the point calculations are manual operations. Consequently, there may be errors in point totals. *FIRST* in Upper Midwest and MSHSL will make every effort to correct any errors. Questions about rankings should be sent to StateRankings@mnfirst.org.

Category	Points
Qualification Round Performance	
ALLIANCE CAPTAINS	Equal to 17 minus the ALLIANCE CAPTAIN number (e.g. 14 points for ALLIANCE #3 Captain)
Draft Order Acceptance	Equal to 17 minus the Draft Order Acceptance Number (e.g. 12 points for the team that is fifth to accept an invitation)
Playoff Advancement	Points awarded based on team participation in individual playoff rounds, and whether or not the ALLIANCE advances. See FRC Manual Section 11.1.3 Playoff Performance for details.
Judged Team Awards	10 points for the Impact Award 8 points each for the Engineering Inspiration and Rookie All Star Awards 5 points each for all other judged team awards
Hall of Fame	Teams that entered the FRC Hall of Fame within the last 5 years and are thus ineligible to apply for the Impact Award will receive 5 points.

Team Age 5 points for any team that was a rookie in 2023 or 2024

Detailed Point Descriptions

The 2024 FRC Game Manual includes detailed descriptions of each point category:

- Section 11.1.1 describes Qualification Round Performance
- Section 11.1.2 describes ALLIANCE Selection Results
- Section 11.1.3 describes Playoff Performance
- Section 11.1.4 describes Awards
- Section 11.1.5 describes Team Age

FUM and MSHSL would like to reiterate from section 11.1.4 that the points earned for team awards cannot capture the value that the teams winning those awards bring to our program, nor do the points represent the value of the awards to FUM, MSHSL, or *FIRST*.

Tiebreaker

Sort

If any teams have the same number of points, the following hierarchy of tiebreakers will be used to break the tie:

Criteria

Order	
1 st	Total Playoff Round Performance Points
2 nd	Best Playoff Round Finish at a single event
3 rd	Total ALLIANCE Selection Results Points
4 th	Total Qualification Round Performance Points
5 th	Highest Individual MATCH Score, regardless of whether that score occurred in a Qualification or Playoff MATCH
6 th	Second highest Individual MATCH Score, regardless of whether that score occurred in a Qualification or Playoff MATCH
7 th	Third highest Individual MATCH Score, regardless of whether that score occurred in a Qualification or Playoff MATCH
8 th	Random Selection

Alternate Teams

If, prior to the competition, any team is unable to participate or a qualifying team declines their invitation, an alternate will replace that team. Teams must accept their invitation to the MSHSL Tournament within one week of final notification.

Alternate teams are selected as follows:

• If the original team's region no longer has two qualifying teams, the alternate is the next highest ranking team from that region

• Otherwise the alternate team is the next highest ranked team regardless of region

Alternate teams will have 48 hours to respond to an invitation.

Tournament Details

General

Competing teams will exhibit the qualities of Gracious Professionalism® and compete in the spirit of Coopertition®. Unless otherwise noted in this document, the tournament will follow all rules and processes described in the 2024 *FIRST* Robotics Competition Game Manual.

Disputes

Any disputes arising during the competition shall be reported to the Head Referee and Tournament Director for resolution.

Awards

Trophies: Awarded to the three teams in first, second, and third place ALLIANCES.

Medals: Awarded to the members of the three teams in first, second, and third place

ALLIANCES (25 per team). Additional medals can be purchased after the event.

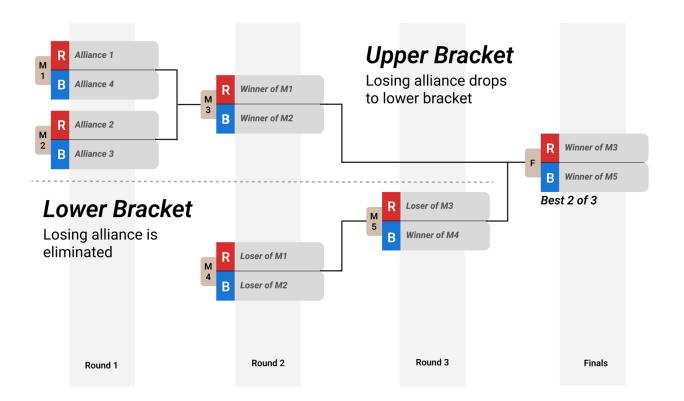
Certificate of Participation: Each team qualifying for the state tournament will be given 25 certificates of participation. Additional certificates can be purchased after the event.

Playoff Tournament Format

The Minnesota State High School League tournament will use a double elimination playoff format as described in section 11.7 of the FRC Game Manual with two exceptions:

- The playoff tournament will contain only four alliances
- The playoff match bracket will be modified as below to support four alliances

There will be a 15-minute breaks between each Round and between each Finals match.



Event Schedule

We will release a more detailed schedule closer to the event.

Friday Night

- Load-in
- Pit setup
- Registration
- Robot inspection
- Field connection test
- Field calibration

Saturday

- Driver's meeting
- Opening ceremonies
- Qualification matches

- Alliance selection
- Playoff matches
- Awards ceremony