

# About Us

STARBASE Wisconsin is an interactive academic outreach program that helps youth increase their knowledge in science, technology, engineering and math (STEM). Fifth grade students in Milwaukee public, choice, and charter schools are taken on a five-week, 25-hour odyssey into the exciting world of the sciences through hands-on activities and experiments, technology projects, and interaction with military and civilian professionals with careers in STEM fields.

The program is sponsored by:



STARBASE Wisconsin Inc. is a non-profit affiliate of the Wisconsin Air National Guard's STARBASE Wisconsin Academy.

## Program Highlights

### Student Information

- STARBASE Wisconsin on average serves 950 Milwaukee Public School Students annually
- 20 Urban Schools served with 31 classes totaling 795 students\*

### Financial and In-Kind Program Support

- Program valued at \$390.00 per student. Funding from the Department of Defense enables the program to be offered at no cost to families.
- 60 volunteers provide 1428 hours which are valued at \$35,871.36\*

\*Data is based on the 2019-2020 school year.

## Contact Us

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<http://starbasewi.org>

A Department of Defense Youth Program



A hands-on, minds-on, interactive STEM education program.





## School Day Program

The school day program focuses on 25 hours of hands-on STEM Instruction. Students attend with their fifth-grade class and teacher. The STARBASE curriculum and activities are correlated to National Science Education Standards (NSES) and National Council of Teachers of Mathematics (NCTM) Expectations. It is offered in the summer as well. The curriculum covers:

- **Physics and Chemistry:** Newton's Three Laws of Motion, Rocketry, Fluid Mechanics, Aerodynamics, and Building Blocks of Matter (4.35 hours)
- **Technology:** Electricity and Robotics (3.40 hours)
- **Energy:** States of Matter and Physical/Chemical Change 3.75 hours
- **Engineering:** Engineering Design Process and 3-D Computer-Aided Design with 3-D printers (4.25 hours)
- **Mathematics Operations and Applications:** Measurement, Graphing, and Data Analysis (3.5 hours)
- **STEM Careers:** Career Exploration and Personal Investigations (2.5 hours)



## 2.0 Aviators Club

Students are immersed in the world of aviation through 30 hours of instruction by volunteer pilots serving as mentors and STARBASE educators. The afterschool program includes an abbreviated Private Pilot Ground School and Flight Performance Training with desktop Flight Simulators.

Students will:

- Complete an abbreviated FAA Private Pilot Program ground syllabus
- Complete Flight Performance tasks using FSX desktop Simulators
- Aviation mentoring program will take advantage of Community Service



## Program at a Glance

- We offer 2 programs to area youth including a school day and afterschool program.
- Over 8,000 Wisconsin youth in 5th grade served since 2012.
- 16.27% growth in students' knowledge of the sciences and engineering content after attending the school day program.
- Local and statewide organizations value and recognized the organization for contributions and leadership in STEM Education including:
  - the Milwaukee Metropolitan Alliance for Black School Educators
  - STEM Forward
  - Wisconsin Technology & Engineering Education Association

