

AICE Winger Flight Path

New Opportunities in Computing, Data, and AI at Red Wing High School



Why These Courses Matter for Every Student

Today, nearly every career uses data and digital tools in some way — from health care and skilled trades to business, arts, and public service. Our courses help students build confidence and readiness for whatever path they pursue.

Students in this pathway learn how to:

- Understand where information comes from.
- Evaluate claims and sources.
- Communicate clearly and support ideas with evidence.
- Work with others to solve real problems.

Courses Beginning in 2026-27

- **Grade 8: Exploring Data, Computing & AI** (Quarter Elective): Students learn how apps, AI tools, and data systems work through hands-on projects. This course builds confidence for high school computing and data coursework.
- **Grade 9-12: Exploring Data, Computing & AI** (Semester Elective): Students learn how apps, AI tools, and data systems work through hands-on projects. This course builds confidence for high school computing and data coursework.
- **Grades 10-12: AP Computer Science Principles** (AP CSP): Students explore how technology shapes the world, create digital projects, analyze data, and learn how the internet works.

Existing Courses in This Pathway

- Grades 11-12: **Intro to Stats**: This is a computational course that emphasizes the concepts and methods of statistics.
- Grades 11-12: **Basic and Applied Statistics**: This is an analytical course that uses real-life data and principles that are founded in research.

What Comes Next (phased in over time)

- 2027-28: **Data Science Foundations** – Students use real data to explore questions that matter in school, careers, and the community.
- 2028-29: **AP Computer Science A** – For students who want deeper programming and problem-solving experience.
- 2029-30: **Applied AI & Capstone Projects** – Students work with partners to solve real challenges and share their learning.

Who Should Consider These Courses?

Students who:

- Want to understand how information is used across industries and/or to benefit society.
- Enjoy creating, designing, building, or solving problems.
- Want to be prepared for college, trades, careers, or the military.
- Are interested in making a difference in the way technological solutions are deployed for the benefit of society.