AI Integrated Computing Education (AICE)

Opportunities in Computing, Data, and AI for Red Wing Students

Advising

Computing, data, digital tools, and AI are increasingly part of nearly every field. Flight Path 2030 integrates these competencies into coursework and advising so students can make informed choices about their future. Students can find advising materials online to supplement the conversations with their counselor and/or the structured opportunities offered at the high school.

- **Grade 8 - 8th Grade Success:** This required Grade 8 course introduces students to career clusters while helping them connect their interests, skills, and values to future pathways and explore how computing, data, and AI are impacting the world around them.
- **Grade 11 - Flight Paths Capstone:** This required Grade 11 capstone helps students refine post-graduation plans by exploring careers, education and training, wages, personal finance, and how computing, data, and AI are shaping their chosen fields.
- **Grade 12 - 1x1 Advising:** The RWPS Flight Path Coordinator sits down with every Senior to ensure they have the support they need to map out their post-secondary transition plans in alignment with current post-secondary education, training, and/or workforce expectations.

AICE Coursework via Flight Path 2030

The AI Integrated Computing Education (AICE) Pathway will expand over the next several years, giving students opportunities to build deeper skills in computing, data, and AI. It is especially well suited for students who enjoy creating, designing, building, solving problems, and exploring how technology can be used across industries and to benefit society.

Students can build a strong foundation for advanced AICE coursework through existing courses, including **Algebra II, Intro to Statistics, Basic & Applied Statistics, Honors Pre-Calculus or College Algebra, AP Calculus, and/or Internships**. Students should consult the High School Course Catalog and their counselor to confirm prerequisites and select courses that best support their goals.

Courses Beginning in 2026-27

- **Grade 7: Digital Literacy, Information Fluency and Responsible AI** (Trimester Required)**:** Students learn to find and evaluate information, work with basic data, collaborate digitally, manage files, and use AI responsibly with attention to verification, attribution, privacy, and human judgment.
- **Grade 8-12: Exploring Computing with Data and 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.

Courses Beginning in 2027-28

- **Data Science CS** – Students expand on the statistics learned in “Basic & Applied Statistics” with this advanced course using r-studio to learn carrier relevant implementations of statistical approaches in the industry standard platform.
- **AP Computer Science A** – For students who want deeper programming and problem-solving experience.

Planned for Future

- **Applied AI & Capstone Projects** – Students work with partners to solve real challenges and share their learning.