Tech Flight

Meets M-Th 8-9:30am

Course Description

Tech Flight is an integrated course that blends Computer Operations & Programming with Drone Operations & Maintenance to give students a complete, hands-on experience in both digital and physical technology systems. Students learn how coding, data, hardware and unmanned aerial systems (UAS) work together to solve real-world problems.

Computer Operations & Programming (M/W)
Students learn fundamental programming concepts through creative, puzzle-based challenges using Python. Students learn:

- Communication with computers using commands, functions, variables, loops, conditionals, data types and control structures.
- Top-down design, proper naming rules and code commenting.
- Explore coordinate systems, create drawings, add text, use user input and parameters, and understand the difference between defining and calling functions.

The course also covers the history of programming languages, why Python is so popular, and builds problem-solving skills through debugging and interactive coding experiences.

Drone Operations & Maintenance (T/Th)
Students extend what they learn in programming by exploring how software controls unmanned aerial systems (UAS). They gain hands-on experience in drone assembly, maintenance, repair and flight operations across agriculture, food and natural resources industries.

Students use the programs, data skills and digital tools from the computer operations portion of the course to complete drone missions, troubleshoot issues and analyze real-world field data.

Together, these two components create one cohesive class where students develop both the coding skills and applied technical knowledge needed to operate, support and innovate within modern drone systems and technology-driven industries.

Enroll today!

Ask your guidance counselor for details

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