Corvian Community School Technology Plan 2020-2021-2022 – forever evolving

Corvian Technology Mission

Position available technology to "all" Corvian Students in Grades K – 12 and make available a robust internal wireless network and controlled Internet Access for all students within the Corvian Campus.

Corvian Technology Vision

Curriculum along with Technology will prepare students for success in college and career choices in the business world of the future.

Completed Projects

Elementary School

- Grades K thru 5 have Chromebooks available to all Students.
- Introduction to technology begins in the earlier levels of Corvian learning.
- Google Workplace tools are utilized for class instruction to help boost productivity and elevate student work.

Middle School

- Grades 6 - 8 own their Chromebooks. These are utilized at school and at home.
- Schoology is introduced to all Middle School Students "empowering data-driven teaching and learning"
- Schoology tools include but are not limited to "increased collaboration and Teacher-led personalized instruction"

High School

- Grades 9 - 12 are BYOD. This is a mixture of device hardware. Supported devices are Windows-based, MAC-based, and Chromebooks but a few do participate with Linux-based platforms. The Linux platforms are allowed but because of the different flavors of Linux, support is minimal and the owners of Linux-based platforms are responsible for their own troubleshooting.
- Schoology tools include but are not limited to "increased collaboration and Teacher-led personalized instruction"
- Chromebook carts are available for testing when KIOSK environments are required.

Computer Science Elective classes include the following.

- Learning the basics of technologies past and present
- Coding with CS First. ("A computer science curriculum that makes coding fun to learn")
- 3D Model Printing utilizing "Makerbot" Sketch Series Printers.

Campus Network Hardware

- Latest generation of Meraki Hardware and 10 GIG uplinks between data closets in all 3 schools.
- 95 Wireless Access Points available on campus are 2.4 GHz, 5.0 GHz supplementing a wired network.
- Corvian Campus is supported by MCNC on the perimeter. This includes a Cisco-based Firewall, an edge Router and a zScaler Security appliance helping protect the Corvian Campus from internet threats.
- Corvian Campus currently utilizes a 300GB by 300GB monitored path to the internet.
- Identakid implemented at all 3 Campus Schools helping to maintain a safe environment.
- More than 100 cameras throughout the Corvian campus inside and outside helping to maintain a secure, safe environment for all Students and Staff.

Future Projects

- LockDown Browser is being tested for BYOD devices and integrated into Schoology Quizzes/Exams. (On Going)
- All access points will be replaced with the latest generation AP's for increased bandwidth at 2.4 GHz, 5.0 GHz and Wi-Fi 6e capability. (2023 School Year)
- Additional programming teaching tools as we move forward into next-generation applications. (2023 School Year)
- Consolidation of new elementary school on main campus grounds to include next-generation network equipment and access points. Also to include HIK vision cameras and secure entry points.

Future Technologies are forever evolving. Both Hardware and Software are chasing one another creating an everchanging and growing environment. Corvian will continue to grow in both its implementation of latest technologies and its teaching of future technologies. Technology will continue to change the world and potentially change our lives moving forward even more than it has the first 20 years of the 22nd century.

Because of the positives in advanced technological medical care, aerospace ventures, robotics, electric vehicles and battery technology, virtual reality, driverless vehicles, 3d printing, recycling, Artificial Intelligence, nanobots, and the list goes on. Corvian recognizes exposing young minds to the beginnings of today's technologies will not be the same technologies of tomorrow. Corvian will continue to adapt and grow with these changes and include them in its Computer Science future curriculum keeping an open mind and sharing the known and unknown future technologies of tomorrow.