

General Course Information

Course Name: Computers and Networks	
Department: Technology & Engineering	Grade Level(s): 9-12
Duration/Credits: 1 semester/ .5 practical art credit	Prerequisites: none
BOE Approval Date:	Course Code H4200
Course Description:	
In Computers and Networks, students learn basic computer architecture and operation, software packages and usage, consumer maintenance practices, network topologies, and network hardware. The student will gain knowledge and experience through a series of daily hands-on collaborative experiments.	
Course Rationale:	
The integration of computers and computer networks into business and everyday life continues to grow and advance. The need for computer literate students and employees goes beyond software and application usage, and future career opportunities for students with hardware expertise will be numerous.	
Course Objectives:	
<ul style="list-style-type: none">• The student will read about and analyze factors relating to online citizenship and safe practices and apply safety protocols when working with equipment (A+ Reading).• The student will successfully use construction techniques to assemble and disassemble a personal computer and maintain a journal of field notes on the process (A+ Writing).• The student will load and update current operating systems, operate standard applications, and install and update hardware and associated drivers.• The student will research and perform preventative maintenance and troubleshooting procedures for various system components (A+ Research).• The student will complete a virtual build and will give and receive constructive feedback on the design (A+ Speaking and Listening).	

- The student will maintain a safe and clean working environment.
- The student will use industry-standard processes, hardware, and software to meet the goals of the course.

Standards Alignment:

<https://dese.mo.gov/sites/default/files/curr-mls-standards-computer-science-k-12-sboe-2019.pdf>