



## **TECHNOLOGY**

We are a BYOD (Bring Your Own Device) School. This means that we are open to kids having any device that has wi-fi capabilities, Microsoft Office or Google Apps Capabilities.

All students need to purchase **their own** version of MalwareBytes (Anti-Spyware/Anti-Virus software - [www.malwarebytes.org](http://www.malwarebytes.org)) and have it installed on their Macs, PCs, Tablets, and iPads.

### **Minimum Computer Requirements**

(Any questions on ordering, please direct them to Jean-Claude Moritz at [jcmoritz@vchsweb.org](mailto:jcmoritz@vchsweb.org))

### **Apple MacBook, MacBook Air, or MacBook Pro.**

The MacBook fits all specs. The MacBook Air is lighter and has two USB ports. The MacBook Pro is fully loaded with multiple ports and power. All are great. Need a USB Adapter for Flash Drives required in classes.

### **PC Laptops, Surface, Tablets and Lights.**

All Dell, Lenovo, Acer, Microsoft, ASUS, Alienware, etc... are welcome. Minimum Specs: 64 GB Flash Memory, 8 GB Ram, Wifi, Intel Dual Core (6th generation or better) 14" Screen or better suggested. Need a USB port for Flash Drives required in classes.

### **ChromeBook**

15.6" Touchscreen Chromebook - Intel Pentium - 8 GB Memory - 64 GB Flash Memory. Need a USB port for Flash Drives required in classes. We are a Google Apps for Education Partner at Vail Christian so Chromebooks work very well in our environment but may not work with certain science classes (Chemistry, Engineering, Multimedia, Biology, Etc...)

### **Microsoft Office**

Students are responsible for purchasing Microsoft Office on their own. I will try to get a student discount link to those that need it.

## **ALL CLASSES**

### **AP COMPUTER SCIENCE PRINCIPLES**

Computer must be PC or Macbook (Chromebooks/Tablets will not work)

- Battery must be in good working order
- 8GB RAM

\*\*Computers must be in good condition

\*\*Chrome Browser will be used

Flash Drive - Minimum 16GB

Notebook or Graphing Paper

Pens and pencils

### **FOUNDATIONS OF ALGEBRA**

Graphing Calculator: TI 84 (TI 83 is acceptable)

3 ring binder with notebook paper, graph paper, and dividers

Pencils, highlighter, dry erase markers (for personal use)

Colored pencils are helpful (as required for Biology)

### **ALGEBRA 1.5 and GEOMETRY**

Graphing Calculator: TI 84 (TI 83 is acceptable)

3 ring binder with notebook paper, graph paper, and dividers

Pencils, highlighter, dry erase markers (for personal use)

Colored pencils are helpful (as required for Biology)

### **AP CALCULUS AB/BC**

One 1" or 1 1/2" 3-ring binder with college-ruled notepaper

Graphing paper is helpful, but optional

Calculator: Graphing TI-83, TI-84

### **DIGITAL MEDIA CLASS**

Apple MacBook or equivalent PC

2.3GHz dual-core 7th generation Intel Core i5 processor, Turbo Boost up to 3.6GHZ

Intel Iris Plus Graphics 640

8GB 2133MHz LPDDR3 memory

256GB SSD storage

Two Thunderbolt 3 ports

64+ GB flash drive (used for content transfer or backup)

Optional-SD card reader either in the computer or as an external accessory (used for reading SD cards transferring content from cameras)

College ruled notebook, at least 60 pages

Pens and/or pencils

**DE PRECALCULUS/ALGEBRA II**

One 1" or 1 ½" 3-ring binder with college-ruled notebook paper

Graphing paper is helpful, but optional

Calculator: Graphing TI-83 or TI-84

**AP STATISTICS**

TI-84 or higher graphing calculator

3 ring binder

Loose leaf paper

Pencils

**ALL THEOLOGY Classes**

**NIV Teen Study Bible from Christianbook Distributor**

<https://www.christianbook.com/niv-teen-study-bible/9780310745686/pd/745686?event=Bibles|1002764>

Black Pen

Blue Pen

Composition College Ruled Notebook (100 pages)

**PRE-AP ENGLISH CLASSES (Freshman and Sophomore levels)**

One spiral notebook

Red pen

Personal pencil sharpener and pencils or two mechanical pencils with extra lead

Two different colored highlighters

A computer with a strong battery and a working charge cord

**AP ENGLISH LANGUAGE AND AP ENGLISH LITERATURE (Junior and Senior levels)**

One ONE SUBJECT spiral notebook with pockets or one ONE SUBJECT spiral notebook and one pocket folder

One packet college-ruled notebook paper for timed essays

One journal with lined pages

Two packages of 3x5 index cards

Black & red pen

Personal pencil sharpener and pencils or two mechanical pencils with extra lead

Two different colored highlighters

**DE AMERICAN LITERATURE (Junior and Senior levels)**

One spiral notebook

Pencil or pen

A computer with internet access, a camera, and a microphone

**SPANISH (ALL Classes: Novice, Intermediate, Advanced, AP, Spanish Lit)**

One 1 ½ - 2" - 3 ring binder

8 dividers tabs

1 Composition Notebook

Pens/pencils (student's choice)

**AP US HISTORY:**

100 3" x 5" Lined Notecards.

Large 3-ring or D-ring Binder

Dividers

College Ruled Notebook Paper

Standard Blue or Black Ink Pens

**AP WORLD HISTORY:**

100 3" x 5" Lined notecards.

Large 3 Ring or D Ring Binder

Dividers

College Ruled Notebook Paper

Standard Blue or Black Ink Pens

**DE AMERICAN GOVERNMENT**

100 3" x 5" Lined notecards.

Large 3-ring binder

Dividers

College Ruled Notebook Paper

Standard Blue or Black Ink Pens

**PRE- AP WORLD HISTORY AND GEOGRAPHY**

One single subject spiral notebook

One 1.5-inch binder with four tabbed dividers

One package of college ruled notebook paper

One package of lined index cards

Personal pencil sharpener and pencils or two mechanical pencils with extra lead

One ruler

One set of Colored pencils-sharpened

**ENTREPRENEURSHIP (101 & 201)**

\*something to organize your papers (ex. a binder with dividers for this and other classes, or a binder just for this class; pocketed folders not recommended (too many papers))

\*blue or black pen

\*erasable pencil (with eraser)

\*optional: journal/spiral

**THEATER**

1" 3 ring binder - Black

6 #2 pencils

3 yellow highlighters

**VOCAL MUSIC ENSEMBLE**

MUST have 1" 3 ring binder - Black

#2 pencils

**SPEECH / COMMUNICATION**

1' 3 ring binder

5 Divider Tabs

Highlighters

Pens/Pencils

**BIOLOGY**

\*colored pencils (you will need these multiple times)

\*something to organize your papers (ex. a binder with dividers for this and other classes, or a binder just for this class; pocketed folders not recommended (too many papers))

\*notebook paper (College- or regular-ruled, uncolored)

\*metric ruler (can be same as for other classes)

\*2 white Poster Boards (needed for projects)

\*1 roll paper towels

\*blue or black pen

\*erasable pencil (with eraser)

**AP BIOLOGY**

\*something to organize your papers (ex. a binder with dividers for this and other classes, or a binder just for this class; pocketed folders not recommended (too many papers))

\*notebook paper (College- or regular-ruled, uncolored)

\*graphing or scientific calculator (same one from maths, chem, etc.)

\*metric ruler (can be same as for other classes)

\*roll of paper towels

\*blue or black pen

\*erasable pencil (with eraser)

**CHEMISTRY**

Graphing or scientific calculator (the one you use for math is fine)

Metric Ruler

½" or 1" 3-Ring Binder (past papers will be held in classroom)

Roll of paper towels

USB Adaptor if your computer does not have USB

**AP CHEMISTRY**

Graphing Calculator

3 Ring Binder (1 very, very large OR 1 very small for current unit and 1 larger for storage at home)

Dividers - 10 for 3 Ring Binder

10 Clear Paper Protectors for 3 Ring Binder

USB Adaptor if your computer does not have USB

Roll (or 2) of Paper Towels

**AP ENVIRONMENTAL**

3-Ring Binder (1")

Metric Ruler

**AP PHYSICS**

Graphing Calculator

3-Ring Binder (1")

Loose Leaf Paper or Single Subject Notebook (college ruled)

Metric Ruler

**CONCEPTUAL PHYSICS**

3-Ring Binder (1")

Calculator

USB Adaptor if your computer does not have USB

**HUMAN BODY SYSTEMS**

Colored pencils, highlighter

**White** 2" binder with front and back pockets

8 dividers for binder

Scientific calculator (your calculator for math is fine)

**VISUAL ARTS:**

100-page Sketchbook, 9x12" (1)

Ruler (metric or standard)

Ball point pens, any color (2 each)

**PHYSICAL EDUCATION:**

Lock for a gym locker

Non-marking fully laced tennis shoes

**WORSHIP ARTS:**

3-ring binder

In-ear headphones. "Shure SE215", (available to order online at [www.guitarcenter.com](http://www.guitarcenter.com)) are recommended, but iPhone in-ear headphones will work as well.

## **INTRODUCTION TO ENGINEERING DESIGN**

Calculator

Mechanical Pencils

Blue or Black Pens

3 Ring Binder (1")

1 Thumb Drive

USB adaptor if your computer does not have a USB port

## **PRINCIPLES OF ENGINEERING**

Calculator

Blue or Black Pens

Mechanical Pencils

3 Ring Binder (1")