COURSE DESCRIPTIONS 2017-2018

CTE/VOCATIONAL

Ag Shop/Ag I:

This course will introduce you to mechanical and agriculture skills that can help you for the rest of your life. Some of the areas that we will cover are measuring, drafting, sheet metal work, gas weld cutting, working with the forge and plasma cutting.

Ag Shop/Ag II:

This course will introduce you to mechanical and agriculture skills including measuring, drafting, plumbing, working the forge, welding, word working, and landscaping. We will explore the apple industry including the different types and diseases that affect them. This course includes working with small engines, as well as car engines, and how they operate. Safety in the shop and tool identification and function will also be included.

Advanced Ag/Ag Mechanics:

After having covered the equipment and safety rules for the shop, this class is mainly student driven. You will receive a certificate of mastery in all phases of the shop from

doing knots, soldering, plumbing, welding, small engines, drafting, working with the forge, with a small culminating project in each area. You will need safety glasses.

Advanced Metals (Basic Welding – 3 college credits):

This course places a high emphasis on basic metal, welding from gas, plasma, stick, arc, mig and tig. There will be exercises in each of these areas. There will be time for individual projects and well as school and community projects with the possibility of earning some extra money.
Prerequisite: Have taken one other Ag related class.

Technical Math:

Math skills are essential in all careers. Learn how to do math the way it's used in the "real world" with problems and learning activities taken from the fields of Agriculture, Business, Health, Consumer Science, and Industrial Technology. Hands on labs that help students "see the math" are part of the course work. This class is especially helpful for students interested in construction or manufacturing, and will help them earn the Skilled Trades Fundamentals certificate of proficiency.

Culinary Arts

A program that focuses on the general study of cooking and related culinary arts, Includes instruction in food preparation; cooking techniques; equipment operation and maintenance; sanitation and safety; communication skills; applicable regulations; and principles of food service management.

Accounting:

In this course you will learn how to plan, record, analyze, and interpret financial information using a variety of tools including: your book, workbook, a computer, and the internet. Your grade will be based on your ability to carry out assigned tasks, and the attitudes you display while doing so. Your grade will also reflect the following professional skills: ability to work independently, complete assigned tasks on time, good attendance, and punctuality.

Office User Specialists (5 college credits) :

A course that prepares individuals to master and use computer software courses and applications for inputting, verifying, organizing, storing, retrieving, transforming (changing, updating, and deleting), and extracting information. Includes instruction in using various types of data entry such as word processing, spreadsheets, database courses, design courses, presentation courses, and others. This course will provide students the opportunity to show validation of expertise through a globally-recognized standard through Microsoft Office Specialists or equivalent industry certification.

Digital Design/Year Book

This class qualifies for Occupational Education Credit
This is a College Credit and Careers Network course (formerly Tech Prep). Digital Design is a graphic arts class. Students make art, learn about design, visual communication, and the power of art to influence public perception. Students create both personal and promotional materials using Adobe Photoshop, Illustrator, and InDesign to explore branding, layout, color theory, digital photography, and typography. This class aims to give students opportunities to express themselves visually and to explore creativity-oriented fields like advertising, communication, and design where most artists earn their living doing something that they enjoy. Students work directly with clients in the community to extend their visual and communication skills, and build their design portfolio.

Microsoft Office IT Academy/Computer Application:

This class qualifies for Occupational Education credit.
This is a College Credit and Careers Network course (formerly Tech Prep). The Microsoft IT Academy/Computer Applications class is designed to help students earn certification as a Microsoft Office Specialist (MOS) in globally recognized Microsoft certifications. Students also improve proficiency with technical skills and digital learning. Not only will this certification help students in all academic classes, it will build their resume and give them a competitive edge in today's job market. The class consists of student directed activities, e-lessons, teacher instruction and demonstration, application assignments for practice, assessment projects, and MOS testing.

Visual Communication

This class qualifies for Occupational Education Credit
This course includes graphic design and video editing. Visual Communications incorporates graphic design techniques and video production capabilities. A variety of publication problems will be offered to challenge the student's understanding of digital design and production. Students create both personal and promotional materials using Adobe Photoshop, Illustrator, and InDesign to explore branding, layout, color theory, digital photography, and typography. This class aims to give students opportunities to express themselves visually and to explore creativity-oriented fields like advertising, communication, and design where most artists earn their living doing something that they enjoy.

Introduction to Computer Science

A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user

Video Game Design/Digital Computer Animation

A course that focuses on the software, hardware, and mathematical tools used to represent, display, and manipulate topological, two and three-dimensional objects on a video screen and prepares individuals to function as computer graphics/video game development specialists. Includes instruction in graphics software and systems; computer programming; digital multimedia; graphic design, video game design and development; graphics devices, processors, and standards; attributes and transformations; projections; surface identification and rendering; color theory; algebra; geometry; trigonometry and introduction to various mathematical concepts related to interactive computer and computer graphic-based applications.

Computer Support Specialist

A course that prepares individuals to analyze problems and research solutions; identify, test, and implement solutions; manage working relationships with customers; install, configure, and test new operating and application software and software upgrades; operate computer system and run system applications; and monitor and analyze system performance. Includes instruction in troubleshooting; facilitation and customer service; hardware and software installation, configuration, and upgrades; and system operations, monitoring, and maintenance.

Web/Multimedia Management and Webmaster

A program that prepares individuals to develop and maintain web servers and the hosted web pages at one or a group of web sites, and to function as designated webmasters. Includes instruction in computer systems and editing; information resources management; web policy and procedures; Internet applications of information systems security; user interfacing and usability research; and relevant management and communications skills.

Webpage/Digital/Multimedia and Information Design

A course that prepares individuals to apply HTML, XML, JavaScript, graphic applications, and other authoring tools to the design, editing, and publishing, (launching) of documents, images, graphics, sound, and multimedia products on the World Wide Web. Includes instruction in internet theory; web page standards and policies; elements of web page design; user interfaces; vector tools; special effects; interactive and multimedia components; search engines; navigation; morphing; ecommerce tools; and emerging web technologies.

Leadership:

(The completion of this class is required for all seniors to graduate. When the assignments are completed for this class, half of your portfolio is also completed. This class is on a two week rotation with Career Choices Class.)

During daily class time students will be assigned to groups to work on class assignments and given the opportunity to help in the school setting. Participating in school sponsored activities and a semester project are needed to pass the class. Outside of the school day students are required to attend public meetings and volunteer with community service projects.

Career Choices:

Career Choices is a required senior course parallel to Leadership. Career Choices focuses on the completion of the senior portfolio and culminates in senior presentations in the spring. The class includes college applications, scholarships, career explorations, job interviews and job shadows within our community. Students also learn about financial applications such as FAFSA, state tax forms, practical consumer math and budgeting and financing.

Nursing Assistant

A program that prepares individuals to perform routine nursing related services to patients in hospitals or long-term care facilities, under the training and supervision of a registered nurse or licensed practical Nurse

FOREIGN LANGUAGE

Spanish I:

Spanish I is the first course in a three course sequence. It is a year long course offered to sophomores, juniors and seniors. An entry-level student should have a "C" grade or better in English I. A working knowledge of Basic English grammar is a prerequisite. It is recommended that Spanish I be followed by Spanish II in order to fulfill any college entrance or graduation requirements.

Spanish II:

Spanish II is the second in a three course sequence designed for juniors and seniors. This course will review and build on the knowledge acquired in Spanish I. It is recommended that an entry level student have at least a "C" average in English II and Spanish I. Completion of Spanish I and II will fulfill the foreign language requirements for most colleges.

AP Spanish (College credit subject to AP exam results):

AP Spanish language is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students who enroll should already have a basic knowledge of the language and cultures of Spanish-

speaking people and should have attained a reasonable proficiency in using the language. Although these qualifications may be attained in a variety of ways, it is assumed that most students will be in the final stages of their secondary school training and will have had appropriate course work in the language. To ensure that the AP Spanish Language Exam is maintained at its intended level, special studies are carried out periodically to establish the comparability of performance of college students completing a third year Spanish language course and AP students.

LANGUAGE ARTS

LA 9th grade:

An introductory course for high school English. Students learn the basics of the writing process including constructing thesis statements and writing essays. They also study grammar rules and vocabulary. In terms of literature, students typically look closely at each author's style, theme, and plot. Finally students learn about and practice research and public speaking skills.

LA 10th grade:

This course continues to build on the major principles taught in English Students focus on expanding their formal and informal forms of written expression. They work through each step of the writing process from pre-writing to final drafts. Students continue to learn about grammar and expand their vocabulary. In terms of literature, students continue to focus on increasing their comprehension while recognizing theme and plot. They also examine each author's use of literary devices. Students are expected to present information orally and learn more about correct research techniques.

Biology/Language Arts II

LAII/Biology is an integrated curriculum that enhances the biology laboratory experience and fuses the content with Language Arts. First trimester has the overlying theme of the Human Role in Our Eco-System. Students will experience learning through a variety of methods and ways of delivery. The core units in biology include ecosystems, population, biological evolution and photosynthesis. Language Arts will follow the biology curriculum and align reading, writing and communication standards in this unit and prepare students for the ELA Competency Exam in 2014. Math and Shop will be utilized as additional support as we create our culminating project. The culminating project for this unit will be a large-scale environmental experiment and a Town Hall presentation to parents and community members where students will present their scientific findings. In addition to the Town Hall, students will write a variety of essays, read supporting literature, participate in practical labs and complete the math associated with this project. In addition to their Biology text book, the main supporting

literature is the novel Ishmael: An Adventure in Mind and Spirit by Daniel Quinn. Quinn's novel does an excellent job asking the question, what is the human's role in our eco-system, and is therefore a solid pairing with our unit's theme. Second trimester, finds students exploring cells as they investigate how they acquire/produce energy, transport materials inside/out, and reproduce through the investigation of mitosis and meiosis. The supporting novel for this unit is The Immortal Life of Henrietta Lacks, a creative-non-fiction text that explores issues of ethics, race and scientific discovery. The culminating final for this unit will be a 10-source synthesis/analysis research paper.

LA 11/12 grade:

In the 2010-2011 school year, students focus specifically on American literature. Students continue to work on their formal and informal forms of written expression. Students are expected to successfully complete literary analyses of various forms of literature. Students are expected to successfully complete a research paper this year along with numerous oral presentations.

LA 11/12 grade:

In the 2011-2012 school year the focus is on World Literature this year. Students are expected by the end of this year to be able to comprehend and analyze various forms of literature including essays, nonfiction, fiction, and poetry. A strong focus will be on formal written expression through essays and literary analyses. Further, students are expected to complete a research paper this year along with numerous oral presentations.

COOKING WITH LITERATURE

We're giving a make-over to this fun course that used to be taught at MHS. Cooking with Literature is a thematic, project-based class that uses lots of cooperative learning and group projects to explore the culture and cuisine of our world. We begin our cultural journey by creating our own Tribes. We will explore what it takes to make a successful tribe and in this project decide whether to trade, beg, borrow, steal, war or find peace with our neighboring tribes. Then our journey takes us to ancient Greece where we read about and learn Greek Mythology. We will study recipes and cook Greek cuisine that is unparalleled. Then we travel to Italy where we research the roots of this ancient empire and cook up other tasty dishes from this spectacular country.

Young Adult Literature & Global Perspectives

Are you interested in your own life and the lives of other teenagers living in other parts of the world, with lives vastly different and yet surprisingly similar to your own? In this course you will examine the issues and concerns of adolescence from a global perspective. You will have the opportunity to learn about your own heritage and the heritage of others. Through multicultural literature, you will read about and discuss the

issues of class, prejudice, race, and ethnic pride. The main theme of this course is tolerance and diversity and the readings and activities will challenge you to think about the misconceptions and stereotypes related to various cultures. In this course, you will engage in studies of various cultures, religions, and ethnicities.

HORROR WRITERS

Are you a loyal fan of Edgar Allan Poe? Is it the mystery, the horror and the thrill of being scared that appeal to you when you read Poe? Have you wondered if Poe's raven is really a supernatural being with a message or merely a lost pet bird trained to say a single word that rhymes? Have you read several of his stories and wanted to read more? This is definitely the course for you! For a writer who has been dead for well over one hundred years, Poe inspires strong feelings in both his admirers and critics. Although he is most famous for his horror stories, Edgar Allan Poe has influenced many writers such as Sir Arthur Conan Doyle, Ray Bradbury and Stephen King. Inventor of the murder mystery, innovator of the science fiction genre and master of gothic tales of horror, Poe commands a significant place in American literature. In this course, you will read extensively, analyze, research, discuss and write about specific works by Poe and his literary techniques. In addition, you will read selected works by Doyle, Bradbury and King and compare their work to Poe. You will write your own gothic, science fiction and detective stories. You will participate in discussions and travel online to Poe's burial site to learn more about Poe and the mysteries that surround him. You will research a variety of author-related web sites and gather information from articles and essays.

MYTH/LEGEND & FOLKLORE

Do you love mythology? Do you wish there was more of it than was introduced in your literature class? Well, this is the class for you! This course is designed to enhance your understanding of myth, legend and folklore and their continuing influence on our modern world. You will study mythology from various cultures, including Greco-Roman, Norse, and American Indian. We will examine how some themes and character types occur over and over in myths of different cultures. We will read English and European legends including The Legend of King Arthur and The Legend of Dracula, among others. We will also read and explore fairytales and folk tales so rich they are still the cautionary tales and the moral fabric for which we determine right from wrong in the 21st century.

FANTASY & SCI-FI SHORT STORIES

The course will begin with a discussion of the fantasy and science fiction genres. We will try to figure out what elements determine the genre, that is, what key, essential ingredients are necessary for prose to be classified fantasy and/or science fiction". We will go on to investigate the question, "What makes a story great?" Throughout the course we will read short stories and discuss them in detail. We will examine the icons of these genres including CS Lewis, JRR Tolkien, and Phillip K. Dick. Finally, you will write three short stories, including a very short one (a single page), a longer one (5-8 double-

spaced pages) and a very long one (10-12 double spaced pages). These stories will be peer-reviewed and I will cast my own opinions into the ring. Ultimately stories are meant to please an audience and some of the best feedback you will get will come from your readers. The writing you do will grow and change as we continue to read more and different styles of Sci-Fi. By the end of the course, you should have gained a solid understanding of the conventions of the genre and its historical developments.

BAD BOYS OF LITERATURE

What is it that makes Bad Boys so fascinating? Why are horror movies so popular? Why is there evil in the world? In this course you will read two novels (A Separate Peace & Lord of the Flies) and two short stories ("The Secret Sharer" & "Heart of Darkness") which portray both the positive and negative characteristics of human beings in different situations. You will analyze the ways the authors develop those characteristics. Then you will examine current entertainment media as they exhibit the characteristics of these literary works. You will examine the extent to which a connection can be made between the literary or entertainment portrayal of the nature of man and trends toward or away from violence that can be seen in society. As we look at these works, we will also be looking at ourselves and those around us to see how the Dark Side shows itself outside of literature. Are we really all "savages underneath"?

TECHNICAL & ELECTRONIC WRITING

Other English classes require you to read short stories and write about them, but this course will allow you to be the author. The goal of Creative Writing is to introduce you to the art and craft of writing short fiction. Many students see this course as an opportunity to explore an aspect of their creativity that sometimes gets overlooked in other subject areas. It's my hope that you will relish the chance to tell your stories. After all, if you don't tell them, they will never be told.

1. The 10 Commandments of Storytelling

The first goal will be to introduce you to the fundamentals of fiction writing. We'll discuss some 'tried and true' strategies for storytelling and practice them in writing exercises. Each of these exercises is aimed at helping you develop specific storytelling skills. To supplement our study of the commandments, we'll read and discuss published stories, observing how the pros handle these same techniques in their storytelling. Specifically, we'll examine the writing choices they make and investigate how they achieve desired effects.

2. Workshop 1

After you are introduced to the Ten Commandments, you'll submit your first piece of fiction. Shakespearean brilliance is not expected of you; however, I do expect your story to demonstrate commitment, passion, and creativity. Your story must use the fictional elements of scene, dialogue, characterization, plot, and so on. This first story will be what is often called a "short-short." It must be 600 words or less (it must fit on two double-spaced pages). All class members will read your story and prepare a written critique, then we'll discuss it as a group and offer feedback about what we like and dislike. Also, you'll hear our suggestions for how to develop it into a longer story.

3. Workshop 2

You'll compose a second story and submit it for another round of workshops, but this time the story will be slightly longer—a 'medium' story of four pages. We'll workshop this story as well, and offer written feedback. Again, we will workshop two stories per day.

4. Studying Story Structure in Films

After our second round of workshops, we'll take a break from writing stories to study storytelling in another genre: movies. You might be surprised to learn that almost every movie produced in

Hollywood follows the same fundamental structure. We'll examine this three-act structure and discuss similarities between screenwriting and fiction writing.
5. Workshop 3
For our third and final workshop, we will move to a 'long' story. This story will be eight pages or more and utilize the three-act structure we saw in films.

A HISTORY of HEROES

May the force be with you! The preceding wish is more than just a catchy phrase from the 1970's. Luke Skywalker in The Star Wars Trilogy is one example of a memorable hero. Did you know Star Wars is deeply rooted in traditional literature? In this course students will explore the formula embedded in the hero's adventure: separation, initiation, and return. We will read a variety of literature from fairy tales to Anglo-Saxon epics to mythology, and we will view a few films. Students will compare and contrast the literature from various time periods and cultures and share their ideas with their classmates. Students will be encouraged to apply their insights to their own lives and communities, to search for modern-day heroes, and to report back to the group. Finally, students will write hero stories and share their adventures.

11/12 AP English Literature and Composition (College credit subject to AP exam results):

According to the College Board, this course is "designed to engage students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students can deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students should consider a work's structure, style, and themes, as well as such smaller-scale elements as the use of figurative language.

University of Washington in the High School (Engl 131) Compostion: Exposition

This writing course provides students with the opportunity to work closely with their peers and instructor to develop a portfolio of writing that reflects an abililty to write papers with complex academic claims that matter. The readings in this class focus on academic discourse from a variety of disciples. (5 college credits/ .50 credit HS, offered- 1st semester 2011-2012)

University of Washington in the High School (Engl 131) Compostion: Literature

This writing course focuses on the production of complex academic arguments that matter based on both literary texts and scholarship about literature. English 111 will be devoted to the genre of short fiction. (5 college credits/ .50 credit HS, offered- 2nd semester 2011-2012)

American Studies: 1865 - Present.

(Prerequisites: Junior or senior status, or sophomore with instructor approval.) This interdisplinary course will chronologically examine thematic units: Civil War, Reconstruction, Industrialism, Incorporation of the West, Progressivism, World War One, The Twenties, Great Depression, World War Two, Cold War, Civil Rights, and postmodernity. In conjunction with examining history, literary styles, genres, and individual authors and the motivating impulses for their writings will be studied within this historical context.

ENG 105: The Literary Imagination: An introduction to Literature.

(Prerequisite ENG 131 or 111 with a grade of 2.0 or higher.) Human experience as it is imagined, interpreted, and made significant in the poetry, prose, fiction, and drama of the major writers of the world. 1 semester course

ENG 320 Film as Literature.

This course will focus on improving an individual's understanding of the formal structure of films, underlying themes, various point of views, and cultural relevance. We do this by: exploring film structure, investigating various genres of film, view films, and responding to film in writing, speaking, and/or projects.

MATH

7th Grade Math (Level I):

This course reviews basic math skills, mastery of fractions, proportions, percents and introduces pre-algebra and geometric skills. The goal is to have students take Course 3/Pre-algebra as 8th graders and Algebra as 9th graders.

7th Grade Math (Level II):

This course reviews the basic math skills and moves students at a fast pace leading into pre-algebra so students will be able to take high school credit Algebra as 8th graders.

8th Grade Math (Level1)

Eighth grade math (Level 1) reviews basic arithmetic and pre-algebra skills. The pace is modified with the goal being that students will be able to take Course 3/Pre-Algebra as 9th graders and Algebra as 10th graders.

8th Grade Math (Level2)

This course reviews basic math skills and introduces algebraic concepts including integers, graphing and solving basic equations.

Algebra 1.5:

This is an intermediate course between Algebra I and Algebra II with an emphasis on linear and quadratic functions, their graphs and applications.
Prerequisite: Algebra I.

Algebra (Phase I):

This course is the first of the two-year curriculum that together constitute the requirements of Algebra I. It includes basic properties, operations with monomials including real numbers, solving, basic equations and problems and basic operations with polynomials in preparation for Algebra in the ninth grade. Problem solving strategies, WASL preparation, geometry connections and probability are an integral part of the course.

Geometry:

Study of logical patterns for triangles, other polygons, and circles.
Prerequisite: success in Algebra I.

Algebra II:

A more advanced study of algebraic concepts, and a solid introduction to Trigonometry and logarithms.
Prerequisite: Success in Geometry.

Business Math

Learn the ins and outs of planning, starting, and running your own successful business. We will learn how to apply for business permits, create a business plan, search for and apply for business loans, and how to do simple accounting. This class will be project based and will have a final culminating project that will constitute the majority of the grade. This will be an Algebra II equivalent class.

Pre-Calculus I (5 college credits):

An advanced study of functions including linear, quadratic, polynomial, rational, exponential and logarithmic. This class can be taken for college credit.
Prerequisite: Has met standards in Algebra II.

Pre-Calculus II (5 college credits):

An advanced study of trigonometric functions including their graphs, identities and applications. This class can be taken for college credit.
Prerequisite: Pre-Calculus I.

Calculus I (5 college credits):

An introductory study of finding derivative functions and their applications. This class can be taken for college credit.
Prerequisite: Pre-Calculus I and II.

Calculus II (5 college credits):

An introductory study of finding anti-derivative functions and their applications. This class can be taken for college credit.
Prerequisite: Calculus I.

Math 101 (5 college credits):

A project based study of mathematics in real world situations. This class can be taken for college credit.
Prerequisite: Algebra II and HSPE.

Math 102 (5 college credits):

A project based study of probability and statistics in real world situations. This class can be taken for college credit.
Prerequisite: Algebra II and HSPE.

Math in Art

In this class you will see how math is alive in nature and in the art forms of cultures around the world. You will see that math is not just a class you have to take but a way of thinking and seeing the world. We will use math in creative ways make fun and interesting works of art. Each week will be a new focus and new project from line designs to optical illusions; from ancient civilizations to modern America.

Sports Math

"When am I ever going to use this stuff?" In this math class, the math is centered around sports. Calculate and analyze statistics from World Cup Soccer and Major League Baseball. Take measurements of a ball in flight and determine how fast you can throw. Write equations for fitness levels, bouncing balls and surfing competitions. You will be asked to work in groups to demonstrate your problem solving, communication and reasoning skills.

Engineering Math

In this class, students will be exposed to problems from Mechanical, Civil and Electrical Engineering. Three hands-on projects will focus on projectile motion, equilibrium and circuits. Students will design and test catapults, bridges and electrical circuits followed by the formal mathematics involved. Pre-Calculus is a prerequisite for this course.

PHYSICAL EDUCATION

The Essential Academic Learning Requirements for Health and fitness emphasize fitness, nutrition and safety. Students will read, write, communicate their knowledge, and participate in fitness activities, sports and games, and health. We will continue to increase the academic nature of the classes.

9th Health :

This course a variety of health concepts, skills, and behaviors to plan for personal and lifelong health goals. Students develop skills that will make them health-literate adults. These include awareness and consequences of risky behaviors, disease prevention, overall wellness, and identification of community health resources. Students are taught how to access accurate information that they can use to promote health for themselves and others. Their behaviors reflect a conceptual understanding of the issues associated with maintaining good personal health. Students demonstrate comprehensive health and wellness knowledge and skills. They use problem-solving, research, goal-setting and communication skills to protect their health and that of the community.

Units of study include: Human Body Systems, Nutrition: Fitness related nutrition, Mental Health, HIV/AIDS, Dating (Healthy Relationships), Tobacco/Alcohol/and Drugs, CPR/First Aid, and Personal Wellness Project.

HS Fitness

The course is designed to increase the student's overall fitness level. Through a variety of activities students will increase their cardio-respiratory fitness, muscular strength, muscular endurance and their flexibility. The course is open to all high school students from any grade levels. It will be tailored to the student's experience level. Upper classmen who have had previous weights or cross fit classes will have the opportunity to develop their own fitness routines. Freshmen will be required to follow the instructor's prescribed routine. Fitness activities will include: Bigger-Faster-Stronger, Crossfit,

Pylometrics, and speed work. Students will perform daily workouts and electronically file weekly fitness journal workouts.

The only requirements for this course are that students need to be in grades 9-12 and are physically able to exercise daily. Students who are under a doctor's care must present an okay from their physician before registering for the class.

Fitness Lab: ***(1.0 credit)***

Class Description: Fitness Lab is a course that is open to all students (9-12). Upper classmen with Fitness or Crossfit experience will be required to write their own workout plan for the trimester. The workout or fitness plan must contain the both a weight lifting and a cardiovascular component. It must also be approved by the instructor and requires the student to monitor and report their progress on a bi-weekly basis. Students who haven't had a Fitness or Crossfit course will follow the instructor's workout for the first half of the trimester and then will have the opportunity to develop their own plan.

SCIENCES

Physical Science:

This is an introductory course to science where students study the basic components and forces that make up the world around us. This class is recommended for anyone who wishes to take upper division science courses.

Environmental Studies

A program that focuses on environment-related issues using scientific, social scientific or humanistic approaches or a combination. Includes instruction in the basic principles of ecology and environmental science and related subjects such as policy, politics, law, economics, social aspects, planning, pollution control, natural resources, and the interactions of human beings and nature.

Biology:

This course is designed to introduce students in grades ten through twelve to the diversity of living organisms, the scientific inquiry process and important concepts surrounding living things. The course is organized into two parts; principles and explorations. The principles addressed are those of cell functions, genetics, evolution, and ecology. The exploration component includes the kingdoms of life, plants, invertebrates, vertebrates, and human biology.

Biology/Language Arts II

LAII/Biology is an integrated curriculum that enhances the biology laboratory experience and fuses the content with Language Arts. First trimester has the overlying theme of the Human Role in Our Eco-System. Students will experience learning through a variety of methods and ways of delivery. The core units in biology include ecosystems, population, biological evolution and photosynthesis. Language Arts will follow the biology curriculum and align reading, writing and communication standards in this unit and prepare students for the ELA Competency Exam in 2014. Math and Shop will be utilized as additional support as we create our culminating project. The culminating project for this unit will be a large-scale environmental experiment and a Town Hall presentation to parents and community members where students will present their scientific findings. In addition to the Town Hall, students will write a variety of essays, read supporting literature, participate in practical labs and complete the math associated with this project. In addition to their Biology text book, the main supporting literature is the novel Ishmael: An Adventure in Mind and Spirit by Daniel Quinn. Quinn's novel does an excellent job asking the question, what is the human's role in our eco-system, and is therefore a solid pairing with our unit's theme. Second trimester, finds students exploring cells as they investigate how they acquire/produce energy, transport materials inside/out, and reproduce through the investigation of mitosis and meiosis. The supporting novel for this unit is The Immortal Life of Henrietta Lacks, a creative-non-fiction text that explores issues of ethics, race and scientific discovery. The culminating final for this unit will be a 10-source synthesis/analysis research paper.

Human Biology:

This class takes an in-depth, hands-on examination into the different systems that run our bodies. A few that will be investigated include the skeletal, muscular, nervous, and cardio-respiratory systems. The class will include many bioengineering activities where we attempt to recreate different body parts, including our head/neck, heart, and arm joints. Finally, we will conclude with a dissection of a mammalian organism, such as a cat.

DNA/Health

This course is a continuation of the Biology from the Biology/LAII series with the LA component. We will investigate the central dogma of biology, studying how our DNA determines what proteins are expressed, and how these characteristics are inherited from one generation to the next. In addition, we will weave the health curriculum by investigating how our DNA influences so many of our social characteristics.

CWU Biology

This will be an intense investigation of the principles of biology at a college-level. Upon completion of this course you will be able to receive 5 quarter credits from CWU.

Honors Biology

This course has all of the components of the Biology/LA 2 + DNA/Health courses, however the depth of the content will be increased and more intense laboratory investigations as the students will become proficient at developing their own questions, hypotheses, scientific design and performing statistical analysis of their data. This course is highly recommended for students interested in taking Chemistry, Physics and especially CWU Biology later in their high school career.

Forensics/Genetics/Biotechnology:

One of the fastest growing fields of science is the forensics/biotechnology arena. In this class we will investigate the blueprint of our lives, which is our DNA. We will study its structure, how it creates proteins, how it is passed down from generation to generation and finally how we can use DNA to solve a variety of crimes. This class will be project-based and will utilize many forms of technology usually reserved for an undergraduate experience. The students will use DNA Gel Electrophoresis to cup up DNA into fragments, separate the DNA and be able to match up fragments with those found at a crime scene.

The prerequisites would be completion of biology or, for certain individuals, being in biology.

Chemistry:

Chemistry instruction will focus on the understanding of concepts, relationships, processes, mechanisms, models, and applications. Less important is the memorization of specialized terminology and technical details. In attaining scientific literacy, students will be able to demonstrate these understandings, generate explanations, exhibit creative problem solving and reasoning, and make informed decisions. Future assessments will test students' ability to explain, analyze, and interpret chemical processes and phenomena, and use models and scientific inquiry. Topics covered during the year include atomic theory, the periodic table of elements, physical behavior of matter, chemical bonding, stiochiometry, kinetics, equilibrium, acids and bases, rodox reations, nuclear chemistry, and organic chemistry.

Prerequisites: Algebra 2 (or currently enrolled)

Physics:

In physics it is essential that instruction focus on student understandings, mathematical relationships, processes, mechanisms, and the application of concepts. Students, in attaining scientific literacy, will be able to provide explanations in their own words, exhibiting creative problem solving, reasoning, and informed decision making. Future assessments will access students' ability to explain, analyze, and interpret physics processes and phenomena and generate science inquiry. The general nature of the statements in this guide will encourage the teaching of science understanding instead of emphasizing the memorization of facts. The major understandings in this guide permit

teachers a large degree of flexibility, making rich and creative instruction possible, and allowing for multifaceted assessment. Topics covered during the year include mechanics, energy, electricity and magnetism, wave phenomena, and modern physics. Prerequisites: Algebra 2 (or currently enrolled)

Nutrition

Do you want to learn how to eat for energy, focus, well-being and taste? Then Nutrition is the course for you! Students will learn skills and information that encourages behaviors that will promote good health and reduce risk to illness. The course will cover nutrition requirements, safety, sanitation practices, food selection and preparation techniques.

Food Chemistry

Many people turn their noses up when they hear the word chemistry. Maybe it would be a different story if chemistry reminded people of the smell of warm apple pie or fresh roasted potatoes. This is a change that isn't that hard to make. Cooking is just applied chemistry and chemistry is a lot like cooking. We will learn about the science of food and cooking: where our foods come from, what they are and what they're made of, and how cooking transforms them. Time to remove the barriers and bring the science of food into the teaching of chemistry!

Environmental Chemistry

Have you ever wondered about the fate of chemicals in the air, water, and soil, and their impact on human health and the natural environment? Environmental Chemistry will cover topics in water pollution and water treatment, greenhouse gases and ozone layer destruction, sources and management of hazardous wastes. Become aware of the world around you, how the quality affects your well-being, and how you can create a positive impact.

Field Trips in Ecology

Ever wonder the names of the animals and plants you see in and around the Lake Chelan Valley? How about what it takes to keep them alive and thriving? Field Trips in Ecology is a course in the understanding and study of: nature and the extent to which scientists see order and pattern in nature; animal and plant populations; tools used to measure and observe living and non-living factors; and populations and the factors that influence them. This course will utilize a combination of class work, project based learning, field trips, drawing, pictures, and tools used to study these local populations.

Marine Biology: Online/Seminar 2 trimester Course (1.0 credit)

Class Description: Marine Science of the Pacific Northwest is a science course designed to introduce the student to the features, basic processes, and unique biology of the Pacific Northwest's marine environments in order to understand the ocean's potential as a resource, and enhance awareness of the value and fragility of the ocean, its inhabitants and its ecosystems.

SOCIAL STUDIES

U.S. History:

Investigation of United States History from 1865 to the present. Several units of study include: Reconstruction, Progressive Movement, WWI, Great Depression, WWII, Cold War, Vietnam, Civil Rights Movement, etc.

Current World Problems:

Investigation of world and United States contemporary issues/problems. Topics include: Terrorism, Arab/Israel conflict, American Politics, Economy, Violence in America, Etc. Student will do numerous presentations, take tests, and participate in debates.

World History:

In this class we will be studying applying the theories and themes of Culture and Geography to specific cultures and regions of the world. We have two related objectives in this class: 1) We will increase our understanding of other cultures as well as our own, 2) Utilize the concepts of geography to understand how people interact with each other and our world. We will investigate some cultures together and explore other cultures in greater depth on our own.

Psychology (College Credit Subject to AP Exam Results):

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. The course is intended to prepare the student for the Psychology Exam in May in which college credit may be earned based on exam performance. The course will require a significant amount of time outside of class for students to be successful. This course promises to be rewarding and enjoyable for students.

AP Psychology: Online/Seminar Course (1.0 credit)

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. The course is

intended to prepare the student for the AP Psychology Exam in May in which college credit may be earned based on exam performance. The course will require a significant amount of time outside of class for students to be successful. However, my hope is that the course will be rewarding and enjoyable for students.

General Psychology Online/Seminar 2 trimester Course (1.0 credit)

Course Description:
The General Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings. The course is less rigorous then AP Psychology course and focuses on more project based learning and assessment.
Students who are interested in the study of psychology are encouraged to sign up with another student who they can team with on many of the unit projects.

AP World History (College Credit Subject to AP Exam Results):

AP World History is designed to challenge exceptional high school students and provide an opportunity for these students to receive college credit. The course does not emphasize the memorization of factual material (names, places, dates), but instead focuses on patterns of change and continuity in human societies over the past 10,000 years. Additionally, the course emphasizes a global perspective rather than a Western Civilization perspective. Students will be continually and repeatedly asked to apply historical data, interpret primary resources, recognize historical patterns, and compare societies and cultures over time and space. In other words, students will be applying essential themes of the discipline to the historical record of the world.

AP US History

This course is designed to provide a college level academic experience in the study of U.S. History. The course will apply historical themes and concepts to thematic periods of our nation's history. We will examine both changes and continuity to these historical themes from pre-Columbian period to our contemporary world. The course will cover an incredible amount of content material much of which you will be responsible for retaining. With that being said, the more important part of this course will be the application, analysis, and evaluation of historical content, data, and documents. One of the major goals of this course is to prepare each of you to successfully pass the AP United States History exam in May.

hiSTORY

This course will allow you to explore the STORY in history. The focus of this course will be to examine the personal human impact of major historical events. The class will utilize historical based films, biographies, and research to make emotional connections to the participants of our history. Students will have the freedom to explore an

unlimited number of different historical interests. Students will be required to read at least one historical book and present to the class. Student will also be required to develop a presentation on a historical film.

Military History Course Description

Military History will explore military developments through history from the invention of the spear to stealth drone technology. The course will examine significant technological developments and their impact on military strategy as well as significant battles that shaped and impacted history. The course will examine thematic periods: Bonze Age, Early Iron Age, Nomads, defense systems, Gun Powder, Industrialization and weaponization, WWI, The internal combustion engine's impact, WWII advances, Post WWII weapons. Course work will consist of unit exams, quizzes, research and presentations.

Anthropology

This course provides a broad overview of the field of Anthropology, focusing on human biological and cultural change and variability. We will look at past and present human change and variability through each of anthropology's major sub-disciplines: biological anthropology, archaeology, cultural anthropology, and linguistic anthropology. It is hoped that this course will be approved for college credit through Central Washington University.

European History Online/Seminar

European History is a challenging course designed to increase student understanding and appreciation of European history. It is a course that focuses on the cultural, economic, intellectual, political and social developments that fundamentally shaped the world in which we live. These areas are studied from a variety of perspectives with the intent of providing a balanced view of history.
Students are encouraged to seek a partner(s) to enroll in the course together. Students may experience greater success by working with a partner or team to process the course material. The ability to work constructively in a team is an essential skill that is necessary for success in the work world

CWU U.S. History Colonial Period to 1865

A thematic study of U.S. History from colonial exploration through the Civil War. This will be a college level course, primarily lecture and test format. Students will be expected to prepare and work at a college level pace and course load. Students will also write a term paper during the course.

CWU U.S. History 1865 to Present

A thematic study of U.S. History from Civil War to present. This will be a college level course, primarily lecture and test format. Students will be expected to prepare and work at a college level pace and course load. Students will also write a term paper during the course.

HUM 101: Exploring Cultures in the Ancient World.

(Prerequisite: ENG 131 or 111 with a grade of C- or higher.) An interdisciplinary exploration from literature, history, philosophy, and the arts of selected major ancient civilizations in Asia, Africa, Europe and the Americas from their beginnings through the fifteenth century. 1 semester course

HUM 102: Exploring Cultures from 16th through 19th centuries.

(Prerequisite: ENG 101 with a grade of C- or higher.) An interdisciplinary exploration of selected literature, history, philosophy, and the arts in Asia, Africa, Europe and the Americas from the sixteenth through the nineteenth centuries. 1 semester course

HUM 103: Exploring Cultures in Modern and Contemporary Societies.

(Prerequisite: ENG 101 with a grade of C- or higher.) An interdisciplinary exploration of literature, history, philosophy, and the arts of selected world civilizations of the twentieth and twenty-first century. 1 semester course

ELECTIVES

MS /HS Choir:

Do you enjoy singing? Have you ever wanted to know how to use your voice and really impress people? This is an enjoyable and entertaining class with a no stress environment. You will learn: how to sing, basic note reading concepts, and most importantly, how to have fun making music!

This course is a part of the MS elective rotation and offers the young student a chance to enjoy and express themselves musically.
Prerequisite: None

Wind Ensemble (HS Band):

The Wind Ensemble (High School Band) has earned many honors and accolades in recent years as well as had many opportunities to travel. This class is more than just a music class; it's a family. Come and be part of the success! You will learn more advanced

music concepts as well as play a wide variety of music. This group performs at concerts, festivals, pap band games, and marches in parades in the spring.
Prerequisite: MS Band, or have talked with instructor.

Honor Jazz Band (Zero hour for credit or non-credit):

This is a fun and exciting class that meets zero hour three times a week. In this class you will listen to and learn to play Jazz Music. You are expected to have a firm grasp of reading notes and rhythms.
Prerequisites: Must be performing in another music group, or have talked with instructor.

Guitar and Piano Class:

Have you ever wanted to learn to play piano or guitar? This class offers an introduction to the basics of playing these important instruments. If you are taking the course for a second or third year, you will be learning more intricate musical concepts on your instrument. You must choose either piano or guitar. You will be expected to buy a book to learn from. Cost $6-10.
Prerequisite: none.

Drumline MS/HS:

Precision drumming and marching.

AP Music Theory (College Credit Subject to AP Exam Results):

The AP Music Theory class is intended for secondary school students who have completed music studies comparable to a first-year college course in music theory.

High School Art:

This course covers Drawing, Painting, Sculpture, and other smaller units such as printmaking, mosaic and glass work, and computer art. They learn the basic elements of design: line, shape, texture, value, form and balance. They learn Art History and how Art ties in with other subjects. They learn how to use critical analysis on their own work as well as the art work of others. Creativity and higher order thinking skills are stressed throughout the curriculum.

Photography:

This course covers the basics of photography and is also an introduction to the digital media. Students learn how to shoot photos using a pinhole and digital camera, develop film, and make prints in a darkroom. They learn the basic elements of design: line, shape, texture, value, form and balance. In the digital unit the students learn how to

scan photos and negatives, take photos with a digital camera and manipulate them on the computer in Photoshop.

Pottery:

In this class students will be introduced to the basics of pottery, i.e. clay bodies, types of construction (pinch, coil, slab, wheel throwing), glazing and firing. They also learn the basic elements of 3D art.

AP Studio Art-Drawing Course Description (College Credit Subject to AP Exam Results):

This course is designed to prepare student-artists to receive AP credit in Studio Art. The assignments done in the class will form a body of work from which the student, with the teacher's help, will select the pieces for his/her portfolio. The work will cover the areas of breadth, concentration, and quality. The students will be challenged to develop their own personal style of work. The student will become familiar with art forms throughout history and a variety of cultures. The student will work toward mastery of concept and skills. The student will also understand that making art is an ongoing process that involves informed critical decision-making to solve visual problems.

Art Studio

In this class students can take Art Studio and concentrate on any one of the following:
Pottery and Sculpture
Drawing and Painting (regular High School Art Class)
Digital Photography
Or, after meeting with the art teacher, pursue an individual art concentration.

Artistic Design:

In this class students will learn about the Basic Elements of Design and how to use them in the commercial/business side of art. Projects in this class will center on graphic design, logo design, product design and architecture.

Advanced Art:

This is a class for students who might want to pursue art beyond a regular high school art class. Students in this class can work on large projects or pursue some area of art that they want to develop. Examples might be: metal sculpture if they can weld, or large canvas painting. Limited class size allows more individual instruction.
Prerequisite: Students must have already had a year of high school art and have permission of the instructor.

Study Hall/Service Period

This is a non-credit offering for students who feel they need time in their day to work on assignments or get help. Once a week students will serve in the school and/or community and receive service points for the portfolio requirement. Please note that a student may only take two semesters of study hall and stay on track for graduation.

Tutor Training (2 credits):

This course presents basic orientation to tutoring program policies and procedures, tutoring methods and interpersonal relationship skills for tutors.
Prerequisite: College-level writing skills and acceptance in an established tutoring program or permission of instructor.

Digital Learning

These online courses are available to students who wish to pursue a course for enrichment purposes that is not offered in our school, or to those with unsolvable conflicts in core class requirements. These courses are available every period and after school. Prior approval and procedure is required to enroll in a course.