

CAMERON HIGH SCHOOL



COURSE DESCRIPTIONS 2014-2015

MARSHALL COUNTY SCHOOLS
CAMERON HIGH SCHOOL

GRADING SYSTEM VALUES

A *****	93 – 100%
B *****	85 – 92%
C *****	75 – 84%
D *****	65 – 74%
F *****	64-0%

REGULAR GPA VALUES

A = 4
B = 3
C = 2
D = 1
F = 0

Student rank is based upon Grade Point Average (GPA). The GPA reflects credit received in all high school subjects (including any high school credits earned in the 7th and/or 8th grade such as Algebra I, Geometry, Spanish I) taken from ninth grade through the first semester of the twelfth grade year. Marshall County uses a four-point base except in the case of Honors and A. P. classes which receive additional points based on the following scale.

HONORS GPA
VALUES

A =	.04
B =	.03
C =	.02
D =	.01
F =	.00

A.P. GPA
VALUES

A =	.05
B =	.04
C =	.03
D =	.02
F =	.0

MARSHALL COUNTY GRADUATION REQUIREMENTS

*The minimum requirements for graduation:
24 for those students who entered 9th grade in 2009-10 or later*

You earn .5 credits for each semester of a class with a grade of D or better
Such credits shall be earned as follows:

English	4 credits	English 9, 10, 11, 12
Science	3 credits	Physical Science, Biology and one more: Chemistry, Earth Science, Physics I, Biology II, or Anatomy/Physiology
Math	4 credits	For Class of 2015: Algebra 1, Geometry and 2 more: Algebra Support, Conceptual Math, Algebra II, Pre- Calculus, Trigonometry, Calculus, or College Transitional Math (<i>11th graders not making mastery on the WESTEST are required to take College Transitional Math their senior year, per State Policy 2510</i>) For Class of 2016 or later: Math I, Math II, Math III, and choose between Math IV, College Transition Math or AP Calculus
Soc Studies	4 credits	World History to 1900, US History to 1900, 20-21 st Century History, Civics/Government
Health	1 credit	1 semester in 9 th and 10 th grade
Phys Ed	1 credit	1 semester in 9 th and 10 th grade
Fine Arts	1 credit	Art, Band, Chorus, Theatre, Music Appreciation, Art Appreciation
Electives	6 credits	

College Admission Standards for Graduating Classes Beginning with 2009

Required courses (beyond high school graduation requirements) for admission to a 4 year college or university are: Math – 4 total credits, 3 of which must be Algebra I, Geometry, and Algebra II. *Some specialty programs at colleges (ex: engineering programs) may have additional requirements.* Foreign language – 2 credits of the same language.

REGISTRATION INFORMATION

Students can earn 7.5 credits per year if they pass all classes and Academic Options.

Honors classes require parent/teacher recommendation.

9th Grade

REQUIRED CLASSES – English 9, Physical Science, World History to 1900, Math I, Phys Ed (.5 credit), Health (.5 credit), Fine Arts (Art, Music, Theater classes). *See course request sheet for full selection.*

A FEW SUGGESTED COURSES/ELECTIVES – Intro to Business and Marketing, Agriculture/Natural Resources I, LIFE, Spanish I, Geography, Economics. *See course request sheet for full selection.*

10th Grade

REQUIRED CLASSES – English 10, Biology, US history to 1900, Math II, Phys Ed (.5 credit), Health (.5 credit)

A FEW SUGGESTED ELECTIVES – World Drumming, Business Computer Applications, Animal Processing, Food Preparation, Drivers Ed, Geography, College 101, Novels. *See course request sheet for full selection.*

11th Grade

REQUIRED CLASSES – English 11, 20th-21st Century, Math III, Science (Earth Science, Chemistry, Physics, Environmental Science, Astronomy,)

A FEW SUGGESTED ELECTIVES – College 101, Piano, Life Relationships 101, Psychology, Creative Writing, Life Connections, Music Appreciation, Accounting Principles I, Anatomy/Physiology. *See course request sheet for full selection.*

12th Grade

REQUIRED CLASSES – English 12, Civics/Government, Math (College Transition Math, Algebra II, Pre-Calculus, Calculus, Trigonometry, Probability/Statistics)

A FEW SUGGESTED 12TH GRADE COURSE/ELECTIVES –Parenting and Strong Families, Digital Imaging/Multimedia I, Travel West Virginia, Greenhouse Technology. *See course request sheet for full selection.*

SPECIAL EDUCATION PROGRAM

LD/MI

The Learning Disability and Special Education programs encompassing Junior and Senior High are designed for those students having difficulty acquiring basic skills in such areas as reading, writing, math, spelling, etc. The students must meet state requirements in order to enter the program. Other areas of concern involve social development, consumer skills, family life, history, and government at the local, state, and national level. Students are exposed to problems that face each of us in everyday life. Our purpose is to enable each to become an independent functioning adult.

GIFTED

This program is to develop "how to think" skills through the practice of inductive-deductive reasoning, logic, gaming, computing, speed reading, learning style adjustment and aids to memorization and successful test taking.

DEVELOPMENTAL COUNSELING PROGRAM

CAREER EXPLORATION

Junior High students will be introduced to the sixteen career clusters that the state of West Virginia recognizes. Students will be given the opportunity to take interest inventories and the EXPLORE Test (8th grade) to help determine what occupational cluster and specific occupation the students are interested in. Students will hear presentations from local business personnel from a variety of career fields. The occupational Outlook Handbook and other resources will be introduced.

In eighth grade, students will choose a career cluster, and will decide whether to follow the professional or skilled pathway in high school. The professional pathway follows classes that are required for four year college admissions. The skilled pathway follows classes that are required for two year college or technical school admissions.

In tenth grade, students will take the PLAN test which is a "pre-ACT" test that includes an interest inventory. They will then choose the concentration or major to follow within their cluster. Students will choose high school classes based on their concentration.

CAREER PORTFOLIOS

This portfolio program is a multi-disciplinary approach in which the English, Social Studies, and Counseling Departments work with the students over the course of their high school years to develop individual Career Portfolios. Through classroom activities, research, speakers, and computer activities, students will learn about occupations, including job requirements, skills training or education needed, and expected income. They will also learn about communication and teamwork needed in the work environment. Students will be assisted with the development of individual plans relevant to their present and future programs of study. The final portfolio, which will be taken home with them when they graduate, will include evidence of this.

SENIOR HIGH CLASSROOM PRESENTATIONS

9th grade- Orientation including: role of the high school counselor, high school credits, grades, and graduation requirements.

10th grade- High school planning; career and post-secondary planning, standardized testing- PLAN

11th grade- High school planning, career and post-secondary planning, PSAT, ACT, SAT, scholarships, resumes

12th grade- High school planning, career and post-secondary planning, financial aid, college and job applications, ACT, SAT, scholarships

PARENT PRESENTATIONS

Various Evening programs are presented to Junior High parents explaining **Career Exploration** and the **Junior High Counseling Program**.

High School Success is a program targeted to parents of 9th and 10th graders. It explains the nuts and bolts of making it through high school today, and includes relevant social topics as well as academic topics.

What's Next? is a program open to all, but targeted to parents of 11th and 12th graders preparing for college/post-secondary education. Decision making skills are reviewed as choices are discussed for tech school, college, apprenticeships, military or the workforce.

The Financial Aid Presentation is a program presented by a college financial aid administrator to parents and students concerning the financial aid process which includes FAFSA (Free Application for Federal Student Aid), scholarships/grants, loans, work study and how to apply.

The FAFSA Workshop is an opportunity for parents to fill out their FAFSA forms online that evening with a financial aid officer available to answer questions through the process.

GROUP COUNSELING

Small group counseling available depending on demand. Possible group topics include, but are not limited to: test anxiety, healthy eating, healthy dating, grief, survivorship, assertiveness training, peer leadership.

Course Descriptions 2014 – 2015

AGRICULTURE EDUCATION

Please see the Career Clusters, Pathways and Concentrations document for complete course descriptions and complete programs.

BUSINESS EDUCATION

Please see the Career Clusters, Pathways and Concentrations document for complete course descriptions and complete programs.

DRIVERS EDUCATION

DRIVERS EDUCATION (6811 – .5 credit)

This course is designed to teach and encourage safe driving habits and to develop defensive driving techniques as a lifelong principle for safe vehicle operation. Enrollment for this class is limited; students must be at least 15 years old. Priority will be given to those students who have their Driver's License Permit prior to the start of class.

ENGLISH

Junior High

ENGLISH 7 (4007EO)

This course provides practice and review of Basic English skills. The specific areas covered in this course are grammar (structure and usage), literature, composition, and spelling.

ENGLISH 8 (4008EO)

English 8 reinforces and continues progress from concepts covered in the English 7 course.

ENRICHMENT ENGLISH (400700H-grade 7; 400800H-grade 8)

This special education class is an accelerated English class that lays the foundation for the Senior High Honors and AP English courses. A variety of above grade level materials and techniques are used to challenge highly able learners. This cross-age class (7 and 8 are combined) requires extensive reading, writing, and vocabulary study. Students also conduct self-selected projects and research. Students are encouraged to become independent learners who take responsibility for their own learning. Students in this class typically proceed to Honors and Advanced Placement English in their high school years.

Senior High

ENGLISH 9 (4009 – 1 credit)

Ninth grade English stresses vocabulary development and appreciation of literature and its relationship to our lives. Memorization of poetry and book reports is required every six weeks. Frequent writing is a demanding part of the course. The class attempts to build a strong grammar background. The course usually includes some journalism and research skills development. Successful completion required for graduation.

ENGLISH 9 HONORS (4009H – 1 credit)

Honors English classes are demanding courses. The work is enriched and accelerated above grade level in terms of materials, teaching methods, and expectations for students. These classes require extensive reading, writing, and vocabulary study. The course also emphasizes critical thinking and problem-solving, individual

and small group research and public speaking. Summer reading of Nobel, Pulitzer, and other works is required. Honors English includes some college level work and preparation for the Advanced Placement Tests in English Language and English Literature. As in all honors classes, grades are weighted for the final average.

ENGLISH 10 (4010- 1 credit)

The basic survey course expects student growth in the areas of writing, speaking, listening, and reading. Basic grammar is reviewed throughout the year. Vocabulary is expanded, and understanding of literature is broadened through a survey of short stories, novels, dramas, and poetry. Successful completion required for graduation.

ENGLISH 10 HONORS (4010H – 1 credit)

Honors English classes are demanding courses. The work is enriched and accelerated above grade level in terms of materials, teaching methods, and expectations for students. These classes require extensive reading, writing, and vocabulary study. The course also emphasizes critical thinking and problem-solving, individual and small group research and public speaking. Summer reading of Nobel, Pulitzer, and other works is required. Honors English includes some college level work and preparation for the Advanced Placement Tests in English Language and English Literature. As in all honors classes, grades are weighted for the final average.

ENGLISH 11 (4011- 1 credit)

The aims of eleventh grade English are to provide the student with an understanding of American literature and the way of life that prompted it; to provide the student with a better understanding of English grammar and usage; to provide the student with writing skills through original, expository and creative writing; to provide the student with research skills; to provide the student with an opportunity to read materials of his/her own choosing; and provide the student with the knowledge of a variety of careers. Vocabulary development is also included. Successful completion required for graduation.

ENGLISH 12 (4012- 1 credit)

The mission of English 12 is to provide every student with an understanding of and an appreciation for the origins of the English language while surveying the development of the Twentieth Century. The course will provide the student with a better understanding of grammar, vocabulary development, and applied communications; will provide the student with writing opportunities through research, reports, and journal writing; and conclusively will provide the students with techniques used in literary analysis of English fiction and non-fiction. Successful completion required for graduation.

ENGLISH 12 COLLEGE/CAREER READY (4014- 1 credit)

This course is a rigorous course designed to increase the number of students who are college and career ready upon graduation from high school. It is intended to assist those students who score within a reasonable range to advance to the college and career readiness benchmark on ACT, SAT, or ACT Work Keys, as well as students whose teachers have identified targeted areas for skill improvement and knowledge acquisition through observed student classroom performance. This course serves as an English 12 credit and will count toward eligibility for graduation and the PROMISE scholarship. English 12 CR is NOT a remedial English course. Upon completion of the course, students will take the COMPASS assessment to determine if they have attained the college and career benchmark score.

ADVANCED PLACEMENT LANGUAGE & COMPOSITION (4041- 1 credit)

ADVANCED PLACEMENT LITERATURE & COMPOSITION (4042 – 1 credit)

AP classes are demanding, college level classes designed for highly able and motivated high school students. AP guidelines suggest that two hours of homework a night is not unreasonable. Summer reading is required. The course prepares for ACT, SAT and AP testing through extensive vocabulary study and the development of reading and writing skills approximating college coursework. Works of American and English fiction, non-fiction, poetry, and drama are analyzed for meaning and literary techniques. Students will write and read extensively. AP students prepare for both the English Language and English Literature AP tests. A student enrolled in the classes for all years may receive one year of Honors weighted grade and two years of AP weighted grade for both English Literature and English Literature and Language. *Pre-requisite: parent/teacher recommendation.*

SCHOOL YEARBOOK (4071 – 1 credit)

The main focus of this course is to produce a school yearbook. Projects given during this production will include layout design, caption writing, headline writing, and use of graphic design. As part of the yearbook course grade, students will be required to sell advertisements, yearbooks, or any other items for fund raising projects. Grades will also be based upon class attendance, class work and keeping a daily diary of statistics and school happenings. Students should be familiar with a 35 mm camera and when taking required yearbook candid. They will be held responsible for the photography equipment in their possession. There is a class limit of twelve students. In order to be considered for enrollment in the course students must obtain two recommendations from school personnel, one of which must be an English instructor; students must complete an interview with the yearbook advisor or editor; and candidates for the course must also complete a 200 - 250 word essay.

COLLEGE 101 (7676 – 1 credit)

This is a college orientation class where students learn how to be successful in college, from the details of application and registration to study skills and writing and math skills. This is a dual credit class where the student earns both high school credit and college credit.

FAMILY AND CONSUMER SCIENCES (FACS)

Please see the Career Clusters, Pathways and Concentrations document for complete course descriptions.

FINE ARTS

Successful completion of at least one credit required for graduation.

FINE ARTS- ART COURSES

Junior High**ART 7 (200700) and ART 8 (200800)**

Each of these classes is designed to introduce the student to the different medias of art and familiarize the student with basic art rules on color, composition, etc. Art Appreciation is taught to help the student understand the importance of art in their world. *Nine weeks courses*

Senior High**ART 1 (3211- 1 credit)**

This course is an in-depth study of various media art forms and begins to develop more in the different areas of art. The student must supply their own materials at a cost of between \$30.00 and \$40.00.

ART II (3212 - 1 credit): *Pre-requisite: Art I*

ART III (3213 - 1 credit): *Pre-requisite: Art II* Honors level available

ART IV (3214 – 1credit): *Pre-requisite: Art III* Honors level available

AP STUDIO ART (3222– 1 credit):

These courses are designed to serve students who have shown interest and/or skills in the various fields of art. Students must supply their own materials at a cost of between \$30.00 and \$50.00. Students have the option of taking Art 3 or Art 4 as Honors or Advanced Placement. Advanced Placement students preparing for the AP exams need 36 pieces of work with concentration. *Pre-requisite: parent/teacher recommendation.*

CREATIVE ARTS-SCULPTURE I (3337- .5 credit)

Students will develop an understanding of the terminology, processes, and techniques related to three dimensional art, and will use problem-solving skills to explore them. Student will learn to use materials and tools in a safe and responsible manner.

PHOTOGRAPHY I (3343- 1 credit)

This course will expose students to the materials, processes, and artistic techniques of taking artistic photographs. Students will learn about the operation of a camera, composition, lighting techniques, depth of field, filters, and camera angles. Class size will be limited and priority will be given to students with a fine arts cluster or concentration.

FINE ARTS- MUSIC COURSES

Junior High**JUNIOR HIGH BAND** (275700-7th grade):

Junior High Band is a stepping stone from the elementary instrumental music to varsity band. The course is also offered to any 7th grade student wishing to learn to play an instrument. The Junior High Band will make several appearances during the year, along with individual performances at solo and ensemble competition. Some extra practice is required.

JUNIOR HIGH CHORUS (00000- 8TH grade)

Junior High Chorus is a stepping stone from the elementary music into the high school choral program. The course is also offered to any 8th grade student wishing to learn to sing. The Junior High Chorus will make several appearances during the year. Some extra practices are required.

STRINGS ENSEMBLE (373200-7th grade; 373300-8th grade)

All string students receive one lesson per week. In addition, the advanced students participate in the Marshall County String Orchestra for one hour per week. Orchestra is a graded class and students are required to attend their lesson, orchestra, and numerous required concerts.

Senior High

CHORUS I (3621 – 1 credit) Honors level available

CHORUS II (3622 – 1 credit) *Pre-requisite: Chorus I* Honors level available

CHORUS III (3623 – 1 credit) *Pre-requisite: Chorus II* Honors level available

CHORUS IV (3624 – 1 credit) *Pre-requisite: Chorus III* Honors level available

A performance based class for any student in 9th through 12th grade. Public and school performances and class participation constitute the grade for this class. A love of music and a positive attitude are a must.

SELECT CHOIR (3770 – 1 credit): Audition required.

MUSIC HISTORY/APPRECIATION I (3746 – .5 credit)

This course is an introduction to an understanding of musical terminology, a study of significant musical compositions of various styles and period with an emphasis upon intelligent listening habits; assigned listening.

MUSIC APPRECIATION II (3747 - .5 credit)

Pre-requisite: Music History/Appreciation I

BAND I (3611 - 1 credit)

BAND II (3612 - 1credit) *Pre-requisite: Band I*

BAND III (3613 - 1 credit) *Pre-requisite: Band II*

BAND IV (3614 - 1credit) *Pre-requisite: Band III*

Varsity Band is a performing organization built around instrumental music learning situations. Varsity Band is open to any student grades 7-12 who has the desire to learn the fundamentals of playing an instrument. Students in the band are required to attend band camp, summer activities (parades, etc.) and additional August practices (any student with conflicts to the above may be excused with prior agreement by the director). The band will attend all football games, several parades, and at least 3 marching band festivals. In addition to this

the band will have a Christmas and spring concert and perform at the band festival. Those students in band will also have the opportunity to audition for the WV All State Band, Region I Honor Band as well as solo and ensemble competition.

BAND I-IV HONORS

Band I-IV Honors is a performing organization built around instrumental music learning situations. It is open to students in grades 9-12 who already have the fundamentals of playing an instrument and are looking to go beyond the fundamentals. Band I-IV Honors students are required to attend band camp, summer activities (parades, etc...) and additional August practices. The band will attend all football games, several parades, and at least 3 marching band festivals. In addition to this the band will have a Christmas and spring concert and perform at the band festival. Honors Band students will have additional performance requirements. They will also have the opportunity to audition for the WV All State Band, Region I Honor Band as well as solo and ensemble competition.

GUITAR I (3726 - .5 credit) Students will learn fundamentals of playing the guitar.

GUITAR II (3727 - .5 credit) *Pre-requisite: Guitar I*

GUITAR III (3728 - .5 credit) *Pre-requisite: Guitar II*

GUITAR IV (3729 - .5 credit) *Pre-requisite: Guitar III*

PIANO I (3681)

This course will present fundamentals of music and piano playing techniques.

WORLD DRUMMING I (3742- 1 credit)

Techniques for playing various types of drums and other percussion instruments from a variety of traditions and cultures. In particular, students will better understand the peoples and musical cultures of Africa and the Caribbean. They will learn how music reflects similar cultural themes and patterns found in art, dance, literature, social patterns, work, etc...

WORLD DRUMMING II (3743- 1 credit) *Pre-requisite: World Drumming I*

FINE ARTS- THEATER COURSES

THEATER I (3801- 1 credit)

This course is an introduction to Theatre history, playwriting, make-up design, improvisation, theatre games, and monologues.

THEATER II (3802- 1 credit)

This course is an introductory theater course that focuses on the students' acting and performance skills, including verbal and physical expression. Monologues, dialogues and improvisation.

FOREIGN LANGUAGES

Junior High

SPANISH 7 (5660AO); **SPANISH 8** (5660BO):

One high school credit is awarded after completion of Spanish 7 & 8

Senior High

SPANISH I (5661 – 1 credit)

The primary content area in Spanish will be the basic skills of reading, writing, and comprehension. These

are accomplished through oral activities, grammar, memorization, vocabulary, reading, short plays, and games. The class is taught in both Spanish and English.

SPANISH II (5662 – 1 credit)

This course includes improvement in the basic skills giving students more experiences in communicating orally with each other in Spanish as well as further development of reading and writing skills. Students will participate in cultural activities such as the preparation of native foods. Students will use the Internet and other resources to study the culture of different Latin American and Spanish countries. *Pre-requisite: Spanish A & B, or Spanish I*

MATHEMATICS

Junior High

PRE-ALGEBRA 7TH Grade (3007)

The seventh grade year is an introduction to high school subjects such as algebra, geometry, probability, and statistics. Instruction focuses on preparing the student for Algebra 1 in the eighth grade. With less emphasis on paper/pencil computation, calculators are emphasized in all facets of the mathematics daily work as well as test situations. Students should, by this time, have a mastery of general mathematics topics; however, review of all basic mathematics skills occurs in a relevant context. Problem solving is embedded in the curriculum utilizing a variety of new concepts, while cooperative learning promotes communication skills. Students are routinely permitted to use available technology.

PRE-GEOMETRY 8TH Grade (3008)

In addition to reinforcing the concepts presented in Pre-Algebra with Geometry, this course extends problem solving to a more sophisticated level. Students will continue to apply integer operations, properties, expressions and equations so as to reinforce these concepts in varied applications. Lessons involving cooperative learning, manipulatives, or technology will strengthen students' understanding of concepts while fostering communication and reasoning skills. Calculator use is emphasized for all mathematical tasks including assessment.

MATH INTERVENTION/TEST PREP

This class is designed as an *eighteen weeks* course to provide students with Mathematics interventions using new technology and software to individualize instruction as much as possible.

Senior High

MATH I-9 (3021 – 1 credit)

In Algebra I students are asked to use variables in place of numbers. The ability to solve equations is one of the main objectives of this course. Algebraic manipulations and applications are taught during the school year. Successful completion required for graduation.

MATH I-9 LAB (3024 – 1 credit)

Math I-9 Lab is a course designed to allow students additional time and scaffolding to master Math I Next Generation Math content and standards. This course must be taught during the same instructional year as the Math I course.

MATH II

This course is the next level of math after completion of Math I.

MATH II LAB

Available to Math II students to re-enforce concepts being learned in the Math II course.

MATH III (TR)

This course is designed for students who are planning to continue their education in a vocational or technical school.

MATH III (LA)

This course is designed for students planning to continue their education at a four year college or university and plan to study a major in the liberal arts.

MATH III (STEM)

This course is designed for students planning to continue their education at a four year college or university and plan to major in Science, Technology, Engineering or Math. If planning to take AP Calculus senior year, this course is a must.

ALGEBRA II (4041 – 1 credit)

A continuation of concepts and topics from Algebra I will be emphasized in Algebra II, with more stress on detail and special cases as well as the underlying logic and principles of algebra. Probability and geometric concepts are introduced and used in this course. Completion of this course will provide a stronger base of math for those students that may be going to college. *Pre-requisite: Algebra I*

COLLEGE TRANSITION MATH (3052 – 1 credit)

The College Transition Math course is an individualized course relating to a student's identified skill deficiencies as related to previously approved objectives. Policy 2510 states that "students in the professional pathway and college bound students in the skilled pathway, who do not achieve the State assessment college readiness benchmarks for mathematics, shall be required to take a college transition mathematics course during their senior year."

PRE-CALCULUS (3046 – 1 credit)

This course consists of a semester of trigonometry along with topics in infinite series, sequences, probability, statistics, and an introduction to calculus. The course is designed to prepare college bound students with the math skills necessary in various programs. *Pre-requisite: Algebra II and Geometry*

TRIGONOMETRY (3048A0 - .5 credit)

Trigonometry objectives emphasize making connections between right triangle trigonometry and circular functions. Calculators, computers and interactive utilities will be used to enhance student learning. This is a one semester course. *Pre-requisites: Algebra II and Geometry*

PROBABILITY and STATISTICS (3047B0 - .5 credit)

Probability and Statistics is one of the most important branches of the mathematical sciences. Knowledge of these topics is critical to decision making and to the analysis of data. Using concepts of probability and statistics, individuals are able to predict the likelihood of an event occurring, organize and evaluate data, and identify the significance of statements. Connections between content and applications to the real world will be emphasized. Graphing utilities such as calculators and computers will be used to enhance student learning and to aid in the solution of practical problems. *Pre-requisites: Algebra II and Geometry*

AP CALCULUS AB (3031 – 1 credit)

The Calculus course offers an introduction to limits, continuity, derivatives, anti-derivatives, definite integrals, and applications of the derivatives are stressed in this course. Intended for those interested in science, engineering, mathematics majors in college, calculus is an upper level math course. *Pre-requisites: Pre-Calculus or Trigonometry, and parent/teacher recommendation.*

PHYSICAL EDUCATION/HEALTH**Junior High****HEALTH 7&8** (690700 – 7th grade; 690800 – 8th grade)

Nine weeks of health are required for both 7th and 8th grade students. An emphasis is placed on self esteem, nutrition, fitness, first aid and hygiene.

PHYSICAL EDUCATION 7&8 (660700-7th grade; 660800-8th grade)

The physical education program provides the students means for total education of the being-physical, socially, and mentally. All pupil who is physically unable to participate permanently, must present to the teacher a written statement from their physician, a temporary medical excuse detailing the extent of the pupil's readmission to class. A note from the parent is sufficient for a few days excuse from physical education. Eighteen weeks (one semester) of physical education are required for both 7th and 8th grade students. The following activities are included: volleyball, soccer, basketball, whiffles ball, badminton, ping pong, and gymnastics, weight training, flag football, and team handball.

LIFE FITNESS (673400)

This course is designed as part of a cluster of classes to provide students with a 21st century technology based physical education class that develops skills that can be used throughout one's lifetime. Classes will be held in the exergaming room.

Senior High**PHYSICAL EDUCATION HS** (6609 - .5 credit)

The physical education program provides the students means for total education of the being-physical, socially, and mentally. All pupil who is physically unable to participate permanently, must present to the teacher a written statement from their physician, a temporary medical excuse detailing the extent of the pupil's readmission to class. A note from the parent is sufficient for a few days excuse from physical education. The following activities are included: volleyball, soccer, basketball, whiffle ball, badminton, ping pong, and gymnastics, weight training, flag football, and team handball. Successful completion required for graduation (2 semesters).

HEALTH HS (6909 – .5 credit)

Emphasis is placed on self esteem, nutrition, fitness, first aid and hygiene. Topics covered include family life, dating relationships, reproduction, tobacco, alcohol, and drug use and abuse, positive mental health, mental disorders, stress, reproduction and sexuality, preparations for adulthood, the aging process, and environmental health. Successful completion required for graduation (2 semesters).

FITNESS/COND (6709 – .5 credit)**FITNESS II** (6710 – .5 credit)**FITNESS III** (6711-.5 credit)**FITNESS IV** (6712-.5 credit)

The object of these classes is to promote total fitness for life. Emphasis will be placed upon the body and the need for life-long maintenance of it. Areas to be covered will be strength programming, plyometric training, speed training, muscular and cardiovascular monitoring, nutrition and circuit training. These courses are electives and will not be substituted for required physical education credits.

RECREATION SPORTS

Recreation Sports courses provide experience and develop skills in more than one recreational sport or activity (such as tennis, badminton, croquet, Frisbee, bocce ball, fishing, hiking, cycling, exergaming, and so on).

DANCE I PE (6621 - .5 credit)

Dance I will focus on technical skills. In addition, the major principles of choreography and the higher level thinking skills necessary to employ dance as an effective means of communication will be the central part of the curriculum.

READING**ASSISTED READING** (4831- .5credit)

This course offers students the opportunity to focus on their reading skills. Assistance is targeted to students' particular weaknesses, and is designed to bring reading comprehension to the desired level. Or develop strategies to read more efficiently on order to progress at a steady rate through high school.

SCIENCE

Junior High

CATS 7 (604400)

This is the first part of an integrated science program encompassing all major areas of science: Biology, Chemistry, Physics, and Earth Science.

CATS 8 (604500)

This is the second part of an integrated science program. There is an introduction to physical science and the use of the metric system. Students will be introduced to the basic concepts related to energy and matter.

Senior High

PHYSICAL SCIENCE (6011 - 1 credit)

The ninth grade Physical Science objectives continue the development of foundational knowledge in areas such as astronomy, chemistry, physics and earth science. Building on the knowledge and skills acquired in Eighth Grade Science, students in Physical Science will expand and deepen their understanding of major concepts through the use of 21st Century Skills. Successful completion required for graduation.

PHYSICAL SCIENCE HONORS (*will be offered if scheduling and demand permit*)

Honors students are expected to keep a science journal throughout the year. Exams and quizzes are designed to test depth of knowledge of the subject matter at hand. All honors students are required to attend the "Exploring West Virginia" three day field trip through Canaan Valley and will be graded based on their field book and reports generated once they return. *Pre-requisite: teacher/parent recommendation.*

BIOLOGY (6021 – 1 credit)

This required tenth grade science course is an introductory course of biology which includes the study of genetic, DNA, environmental factors in organism growth and interrelationships, and other related topics in biological principles. Successful completion required for graduation.

BIOLOGY HONORS (*will be offered if scheduling and demand permit*)

This is a rigorous preparatory class for college bound students whom will be taking biology in college in the sciences. There is frequent homework and minds-on hands-on activities. *Pre-requisites: Physical Science, Algebra I, and teacher/parent recommendation.*

AP BIOLOGY (6121 - 1 credit)

This course is an advanced study of living entities and their relationships to each other and the world in which they exist. It is a survey of protists, fungi, comparative analysis of plant reproduction systems, comparative analysis of animal tissues and systems, embryonic development of animals, animal behaviors, and the chemistry of life. The course involves frequent homework, class projects, and extensive lab work

Prerequisite: Biology and parent/teacher recommendation. Recommended: chemistry completed or taken concurrently with this course.

HUMAN ANATOMY/PHYSIOLOGY HONORS (6103H – 1 credit)

This is a course in human physiology which is the study of human systems and their functions. This course includes discussions of all the major systems of the body (respiratory, circulation, etc.) and a comparative animal dissection. This course is recommended for student wishing to enter any of the health and medical fields (Nursing, medical Technology, Animal Science, biology, etc.) and is designed primarily for seniors, although some juniors may be accepted. *Pre-requisite: Biology and parent/teacher recommendation.*

Recommended: Chemistry completed or taken concurrently with this course.

EARTH SCIENCE (6201 – 1 credit)

This course is a study of the earth and the impact humans are having on it. This in depth study includes examining the depletion of our natural resources and the pollution of our environment. This is an upper level science elective and will include laboratory activities.

CHEMISTRY I (6031 – 1 credit)

This is an introductory course of chemistry that includes the study of atomic theory, periodicity, nomenclature, chemical properties and reactions, stoichiometry, acids and bases, and related topics. Students planning to attend a four year college or university are encouraged to take this course. *Pre-requisite: Algebra I and Biology*

CHEMISTRY I HONORS (will be offered if scheduling and demand permit)

This is a rigorous preparatory class for college bound students that will be taking chemistry in college in the sciences. There is frequent homework and minds-on hands-on activities. *Pre-requisite: Algebra I, Biology, and teacher/parent recommendation; Algebra II recommended*

AP CHEMISTRY (6321 – 1 credit)

This course covers advanced topics in chemistry including stoichiometry, physical chemistry, including advanced work on acids and bases, gas laws, electrochemistry, and additional topics that ensures that the student is prepared for the AP Chemistry test. The course involves frequent homework, class projects, and extensive lab work *Pre-requisite: Advanced Chemistry I honors. Recommended: pre-calculus completed or taken concurrently with this course.*

PHYSICS I (6304 – 1 credit)

Physics is an activity-oriented course which examines the world around us and how it works. Topics included in this course are kinetics dynamics, energy, electricity and magnetism, wave motion, and relativity. *Pre-requisite: Algebra II.*

PHYSICS I HONORS (will be offered if scheduling and demand permit)

This course involves the study of Newtonian Physics, light and its characteristics, electricity and magnetism, circuits, and introduces the concepts of quantum mechanics. This course has frequent class work, homework, word problems, and minds-on, hands-on activities. It is designed to prepare the student for college level work with the level of challenge of work commensurate to that. *Pre-requisite: Algebra II; it is highly recommended that pre-calculus be completed or taken concurrently with this course.*

PHYSICS II HONORS (6363H – 1 credit): This course continues the studies of physics with investigations including astronomy, Meteorology, and Einsteinian physics. Individual projects will be encouraged. *Pre-requisite: Physics I*

ENVIRONMENTAL SCIENCE

A topical course offered to students who have mastered the concepts covered in 6th grade science through 9th grade Physical Science courses and who desire to build upon and extend fundamental environmental science concepts, skills and knowledge. This course examines environmental systems in more detail, concentrating on current topics including regional, national, and international issues.

ASTRONOMY

A topical course offered to students who have mastered the concepts covered in 6th grade science through 9th grade Physical Science courses and who desire to build upon and extend fundamental earth and space science concepts, skills, and knowledge, concentrating on astronomy.

SOCIAL STUDIES**Junior High****WORLD GEOGRAPHY 7 (700700)**

During the seventh grade year, students will be introduced to and explore physical, political, economic, environmental and social areas of the countries throughout our world. The emphasis will be placed on knowing our world neighbors due to the importance of world trade in today's economy.

WEST VIRGINIA STUDIES 8 (700800)

During the eighth grade year students are required to take a semester course in West Virginia History and another semester course in American Government or "civics". The goals of the West Virginia History course

are to provide students with the knowledge about the state in which they live and to involve students in the state, county, and city government. The course is designed to provide students with the basic skills necessary to function as a competent citizen in our state. During the semester study of "civics" students will study the foundations of American Government as well as sociological and cultural aspects of our multiplural society and their influences on American Government. Like the first semester course students will be provided with the necessary skills to function in society and will understand the tradition of government in the United States.

Senior High

WORLD STUDIES TO 1900 (7010 – 1 credit)

This 9th grade course emphasizes the historic, economic, geographic, political, and social structure of various cultural regions of the world from the dawn of civilization to the interdependent world of the twentieth century. Special attention is given to the formation and evolution of societies into complex political and economic systems. Geography/map skills and critical thinking skills are emphasized. Successful completion required for graduation.

WORLD

STUDIES TO 1900 - HONORS (will be offered if scheduling and demand permit)

In addition to regular course content as previously described the honors approach emphasizes the outside sources of information and researching history. *Pre-requisite: parent/teacher recommendation.*

UNITED STATES STUDIES TO 1900 (7009 – 1 credit)

This 10th grade social studies course follows the evolution of the Constitution as a living document and the role of participatory democracy in the development of a rapidly changing technological society. This study of the United States is an examination of the formative years from the Pre-Columbian civilizations to its transformation to a dominant political and economic influence in the world. Special emphasis is placed on how the challenges of settling expansive and widely differing environments were met by a diverse population. Successful completion required for graduation.

UNITED STATES STUDIES TO 1900- HONORS (will be offered if scheduling and demand permit)

In addition to regular course content as previously described the honors approach emphasizes the outside sources of information and researching history. *Pre-requisite: parent/teacher recommendation.*

20/21st CENTURY (7011 – 1 credit)

The focus of this eleventh grade course is an identification and study of the interaction of geographic, political, economic, and historical factors. Such factors provide students a framework to examine and appreciate the changing nature of societies and the increasing interdependency of the United States and the world. Students will contrast and evaluate past and present world concerns and hypothesize about problems and solutions for the future. Students will realize the importance of well-informed citizens in a diverse society and their place in the democratic process. Successful completion required for graduation.

20/21st CENTURY HONORS (will be offered if scheduling and demand permit)

In addition to regular course content as previously described the honors approach emphasizes the outside sources of information and researching history. *Pre-requisite: parent/teacher recommendation.*

CIVICS/GOVERNMENT (7031 – 1 credit)

This twelfth grade Government course is designed to involve the practical study of the features and functions of American government and the American political system. The class will accomplish this by studying the political and administrative institutions that make and enforce laws for a group, decides goals for the group, and distribute rewards and benefits within the group, as well as the roles of the groups and its individuals. Successful completion required for graduation.

AP US GOVERNMENT (7044 – 1 credit)

The goals of this two-semester course are to increase understanding of the American political system, its traditions and values as expressed in the U.S. Constitution and other documents, and to have each student pass the AP exam in May. The course examines in detail the principle processes and institutions through which the political system functions, public opinion, political behavior, and public policy. Students will also be required to read selected articles from news magazines and journals. This course also fulfills the

Civics/Government requirement for 12th grade, which includes basic consumer economics content objectives to be covered in the last grading period. *Pre-requisite: parent/teacher recommendation.*

ECONOMICS (7032 - .5 credit)

Understanding Economics is essential for all students to enable them to reason logically about key economic issues that affect their lives as workers, consumers, and citizens. A better understanding of economics enables students to understand the forces that affect them every day and helps them identify and evaluate the consequences of personal decisions. As resources become scarce, as the economic environment changes, and as the economic impact of decisions become more immediate, students must learn to make sense of the array of economic concepts, facts, events, observations and issues in everyday life and must develop the ability to make effective decisions about economic issues.

GEOGRAPHY (7033 - .5 credit)

The power and beauty of geography allows all students to see, understand and appreciate the web of relationships between people, places, and environments. Geography provides knowledge of Earth's physical and human systems and of the interdependency of living things and physical environments. This geography course is based on the six essential elements of geography and stresses the contemporary world and the role of the U.S.A. in the global community. Students will use geographic perspectives and technology to interpret culture, environment, and the connection between them. Students will use the geographic skills of asking geographic questions, acquiring/organizing/analyzing geographic information, and answering geographic questions.

PSYCHOLOGY (7321 – .5 credit)

The Psychology course is the study of the science dealing with human behavior and experience. More broadly, it is the study of the adjustment of human beings to their environments. The course will be concerned with individuals' motivations, which are manifested in the conduct of his activities.

SOCIOLOGY (7341 – .5 credit)

The Sociology course is the scientific study of social life; the interaction among or between people and of organized ways of behaving (social organizations).

TRAVEL WEST VIRGINIA (7663- .5 credit)

This course targets at high school sophomores, juniors and seniors combining West Virginia History, Geography, culture, marketing studies, career options and scans skills to inform students about the state tourism industry and the opportunities provided by the industry.

SPECIAL EDUCATION

Senior High

JOB EXPLORATION (7606 – 1 credit)

LIFE SKILLS (7605 – 1 credit)

VOCATIONAL PROGRAMS AT JOHN MARSHALL

Please see the Career Clusters, Pathways and Concentrations document for complete course descriptions and complete programs.