COURSE DESCRIPTIONS
HOT SPRINGS COUNTY HIGH SCHOOL
231 PARK STREET
THERMOPOLIS, WY 82443

2017-2018

*Some classes are not available for current year
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Requirements for graduation from Hot Springs County High School include evidence of proficient performance on the uniform student content and performance standards for the common core of knowledge and common core of skills specified under Section 8 of W.S. 2-9-101(b) and W.S. 21-2-304(a)(iii) and referenced to W.S. 16-3-103(h).

**Carnegie Units Required**

<table>
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<tr>
<td>English</td>
<td>4 Units</td>
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<tr>
<td>Science</td>
<td>3 Units</td>
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<tr>
<td>Social Studies</td>
<td>3 Units</td>
</tr>
<tr>
<td>Math</td>
<td>3 Units</td>
</tr>
<tr>
<td>Health</td>
<td>½ Unit</td>
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<tr>
<td>PE</td>
<td>½ Unit</td>
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<tr>
<td>Electives</td>
<td>11 Units</td>
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<tr>
<td>REQUIRED</td>
<td>25 UNITS</td>
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Students will be allowed to change only during the first five (5) days of each term. After five days, exceptions must be petitioned to the principal. Withdrawals after that date may result in failing grades on transcripts.

** Mathematics - all students must successfully complete three years of mathematics taken in three consecutive years starting with 9th grade.

All students must earn enough credit to advance grade levels. All transfer and incoming students will also be subject to this policy.

<table>
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<tr>
<th>Grade Level</th>
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<tr>
<td>9th</td>
<td>0 – 6.00</td>
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<tr>
<td>10th</td>
<td>6.01 – 11.00</td>
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<tr>
<td>11th</td>
<td>11.01 – 18.00</td>
</tr>
<tr>
<td>12th</td>
<td>18.01+</td>
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*Hathaway requirements differ from graduation requirements.* For more information, please see: [http://www.hathawayscholarship.org](http://www.hathawayscholarship.org)

**GENERAL GUIDELINES**

1. Anyone not completing the required subjects and required number of credits will not receive a high school diploma.
2. Honor roll and class rank will be determined by computing all subjects being granted credit.
3. Students will be enrolled in seven classes per day. This rule may be waived only upon written request by the student to the high school Principal.
4. Valedictorian and Salutatorian will be named at the 3rd Quarter Report card. Traditionally, this honor is based upon GPA.
5. Students are required to take one full year of English class each year throughout high school.
6. Credit outside public school must be in accordance with school policy.
LANGUAGE ARTS

ENGLISH I
CLASSES ELIGIBLE TO ENROLL: Required Freshman class
PREREQUISITE: None
A large part of our the focus of this course will be to develop student speaking and writing skills in relation to texts that we have read, using language as a tool to better explore and understand literature. We will read a variety of genres, including novels, plays, short stories, and poetry. Students will subsequently create their own original pieces of writing within these various genres, developing their knowledge of the steps of the research and writing process. Speaking and communication will also play a vital role in this course, both in formal class presentations and informal class and group discussions.

ENGLISH I HONORS
CLASSES ELIGIBLE TO ENROLL: Required Freshman class
PREREQUISITE: Recommendation from 8th grade teacher and/or MAP score
This course is an accelerated alternative to English I. Students will will focus on developing above grade level speaking, reading, and writing skills. Using language as a tool to better explore and understand literature, student writing will emphasize rhetoric and developing critical understandings of novels, plays, short stories, and poems read in class. In addition to exploring the main paper genres (analysis, narrative, research, and persuasive), students will develop connections between literature and their world through speaking and communication skills.

ENGLISH II
CLASSES ELIGIBLE TO ENROLL: Required Sophomore Class
PREREQUISITE: Passing Grade in English I
English II includes the basic skills in oral and written composition as well as reading for understanding. Studies of different types of literature are included. Public speaking for information and presentation is integrated into the curriculum.

ENGLISH II - HONORS
CLASSES ELIGIBLE TO ENROLL: Required Sophomore Class
PREREQUISITE: Passing Grade in English I
This is an accelerated alternative to English II. Students will work towards reading, writing, and speaking at the high end of the 9th/10th grade level. Students will analyze a variety of challenging literature pieces from around the world, examining themes of humanity and culture through both informal and formal writing and speaking. Using communication skills and genres as a vehicle for critical thinking, students will come to unique conclusions about literature and the world.

ENGLISH III
CLASSES ELIGIBLE TO ENROLL: 11
PREREQUISITE: Passing Grade in English I and English II
Students will work towards reading, writing, and speaking at the 11th/12th grade level. This class will focus on collaborative group work to come to their own unique conclusions about the fiction and nonfiction literature which students will read on an individual and class wide setting. Using the writing process, students will create a polished essay in each of the four major forms of writing: persuasive, narrative, research, and literary analysis. Finally, communication (both written and spoken) will be explored as a means of further exploring literature and the world.
ENGLISH III HONORS

CLASSES ELIGIBLE TO ENROLL: 11
PREREQUISITE: Passing Grade in English I and English II
This is an accelerated alternative to English III. Students will work towards reading, writing, and speaking at the high end of the 11th/12th grade level. Students will analyze a variety of challenging literature pieces from around the world, examining themes of humanity and culture through both informal and formal writing and speaking. Using communication skills and genres as a vehicle for critical thinking, students will come to unique conclusions about literature and the world.

ENGLISH IV

CLASSES ELIGIBLE TO ENROLL: 12
PREREQUISITE: Passing Grade in English I, English II, and English III
This course presents a survey of literature from ancient through modern times. Development of literary appreciation through reading and writing is stressed, in addition to advanced uses of grammar, development of vocabulary, and work on advanced composition, culminating with several required term papers. Students interested in receiving recognition as an honors student should see the instructor to develop a contract for grade above and beyond the regular class curriculum.

ENGLISH 1010

CLASSES ELIGIBLE TO ENROLL: 12 – ACT of 19 or above
PREREQUISITE: Students must pass this class with a “C” or higher to receive CWC college credit.
English 1010 is designed to help students improve their ability to communicate in writing. A central objective of the course is to prepare students to successfully complete various writing assignments frequently required of college students. The course emphasizes clear, well-ordered expository and argumentative writing, with variety in sentence structure, carefully developed paragraphs, smooth transitions, and appropriate use of the language. This is a dual credit class. Only seniors may enroll who have passed the Compass Test and met the appropriate standards.

ENGLISH 1020

CLASSES ELIGIBLE TO ENROLL: 12 – ACT of 19 or above
PREREQUISITE: Students must pass this class with a “C” or higher to receive CWC college credit. Students must also pass ENGL 1010 with at least a “C” to take 1020.
English 1020 is the second semester of college-level composition, and is a reading and writing course based on literary texts. Analysis of short stories, poems, novels, and plays will be the focus of writing and discussion. Development of literary appreciation through reading and writing is stressed, in addition to the development of vocabulary and commonly alluded works of famous literature, and work on advanced composition. This is a dual credit class. Only seniors may enroll who have passed the Compass Test and met the appropriate standards.

MATHEMATICS

REQUIREMENTS
All students will be required to:
1. Successfully complete a minimum of 3 math courses to include Algebra 1 and Geometry.
2. A grade of C or better is recommended to advance to the next higher level math course.
**ALGEBRA I**

**PREREQUISITE:** Algebra is the language of science and mathematics. Therefore, Algebra I is a prerequisite to most science and math courses beyond the sophomore level. Major topics of study include:

1. Use inverse operations to determine solutions to equations and inequalities.
2. Evaluate rates of change and develop equations to model data for making predictions and comparisons.
3. Analyze problem scenarios and support conclusions using multiple representations and technology.
4. Solve nonlinear equations by simplifying expressions involving exponents and radicals.
5. Apply terminology to communicate predictions of likelihood based on probability.

**GEOMETRY**

**PREREQUISITE:** Completion of Algebra 1 with a grade of C or better or Teacher Recommendation

Geometry is the study of properties of figures composed of points and lines in two or three dimensions. The student will develop an understanding of logical methods of thinking, along with a background for more advanced mathematics courses.

Major topics of study include:

1. Apply measurement using appropriate methods and units to solve problems involving perimeter and area of two dimensional figures.
2. Apply measurement using appropriate methods and units to solve problems using surface area and volume of three-dimensional figures.
3. Classify triangles by their sides and angles. Students will apply the Pythagorean Theorem and related ideas to solving problems.
4. Name and classify angles when given systems of parallel lines and transversals and apply the concepts.
5. Examine the properties of quadrilaterals and use the properties to describe quadrilaterals in both abstract and real-world situations.
6. Use the properties of congruence and similarity in both abstract and concrete situations.
7. Investigate transformations (reflections, dilations, rotations, and slides).
8. Solve problems involving the coordinate plane such as the distance between two points, the midpoint, and slope.
9. Investigate and solve problems related to circle including central and inscribed angles, chords and arcs, as well as tangent and secant lines.

**GEOMETRY HONORS**

**PREREQUISITE:** Completion of Algebra 1 with a grade of B or better teacher approval

Honors Geometry will cover the same Essential Standards as Geometry to a more rigorous depth and at a faster pace. Enrichments standards will be covered as time allows in the year. The course will have more rigorous testing policies to prepare students for success in dual credit courses.

**ALGEBRA II**

**PREREQUISITE:** Completion of Geometry with a C or better or teacher approval

Algebra II is a mathematics course that is recommended for all students planning to continue their education beyond high school. Major topics of study include functions with an emphasis on linear & quadratic. Other functions covered are exponential growth & decay, compound, and absolute value.

1. Student will model linear data and transform linear and absolute value graphs.
2. Students will solve linear systems using multiple approaches.
3. Students will connect aspects of quadratic equations with graphs and solutions.
4. Students will connect parameters of polynomial equations with solutions and graphs.
5. Students will refine the use of the real number system while solving radical and rational expressions.
6. Students will manipulate exponential and logarithmic equations to find solutions.
7. Students will connect aspects of inverse relations with graphs and solutions.
8. Students will examine conic sections and their graphs.

Enrichment Topics:
• Solving systems of nonlinear equations
• Counting principles and binomial expansion theorem

**ALGEBRA II HONORS**

**PREREQUISITE:** Completion of Geometry Honors with a grade of B or better OR completion of Geometry with a grade of B or better and teacher approval.

Algebra II Honors will cover the same Essential Standards as Algebra II to a more rigorous depth and at a faster pace. Enrichments standards will be covered as time allows in the year. The course will have more rigorous testing policies to prepare students for success in dual credit courses and college.

**MATH 1400 and 1405 – PRECALCULUS AND TRIGONOMETRY**

This course is a Year commitment; regardless of student’s grade any withdraw after the first week will result in a withdrawal failing on record.

**PREREQUISITE:** Algebra I, Geometry, Algebra II with a minimum average of 3.0 in those classes. Dual Credit: 4 credit hours. A minimum ACT score of 23 in Math, or qualifying scores on CWC placement tests College Credit through CWC.

This course is comprised of MATH 1400 and MATH 1405. The first semester is MATH 1400- Pre Calculus. It emphasizes aspects of algebra and trigonometry which are important in the study of calculus as well as functions and their applications to real world problems. Topics include polynomial, exponential, logarithmic and trigonometric functions and their inverses. Functions are evaluated and analyzed graphically, numerically, and algebraically. Graphing calculators are required both in class and with homework assignments. Students who qualify may earn credit in MATH 1400 and 1405. The student will be prepared for college calculus upon successful completion of this course.

**MAJOR TOPICS:**

- Use a graphing utility to construct and interpret models
- Solve linear inequalities and polynomial, rational, piecewise-defined, exponential and logarithmic equations
- Evaluate and analyze functions graphically, numerically, and algebraically
- Apply exponential and logarithmic properties to evaluate and manipulate expressions and equations
- Evaluate and analyze trigonometric functions graphically, numerically, and algebraically
- Use Identities to simplify and solve trigonometric equations
- Use vectors to describe position and magnitude
- Work with polar and parametric functions

*Topics covered are subject to change as they are determined by CWC Math Department.

**AP CALCULUS**

This course is a yearlong commitment; regardless of student’s grade any withdraw after the first week will result in a withdrawal failing on record.

**PREREQUISITE:** Algebra I, Geometry, Algebra II, and Math 1400/1405 with a minimum average of 3.0 in those classes, Math 1400/1405 with a grade of C or better, or teacher approval.

Minimum Cumulative GPA 3.0

An Advanced Placement (AP) course in calculus consists of a full high school academic year of work that is comparable to a calculus course in colleges and universities. AP Calculus will follow the topics outlined by the College Board, along with additional topics that the instructor deems fit to include. The course is primarily concerned with developing students’ understanding of the concepts of calculus and providing experience with its methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed graphically, numerically, analytically, and verbally. The connections among these representations are demonstrated through the unifying themes of derivatives, integrals, limits, approximation, applications, and modeling. A major objective of the class is to prepare students for the AP Calculus AB exam to be given in the spring. Most universities award credit to students based upon their scores on this exam. For more information visit [apcentral.collegeboard.com](http://apcentral.collegeboard.com).
COLLEGE PREP ALGEBRA
  CLASSES ELIGIBLE TO ENROLL:  11, 12
  PREREQUISITE:  Algebra I, Geometry, Algebra II
The goal of this class is to prepare students to pass the college placement exam for math. Upon successful completion, the student should be able to test into Math 1400 or higher at the college level and possess all the background knowledge necessary for success in college level mathematics.

TRANSITION ALGEBRA
  CLASSES ELIGIBLE TO ENROLL:  9, 10
In Transition Algebra we work to help students transition into success in Algebra 1 and Geometry. We will cover a range of topics including, but not limited to: Number Sense, Single Variable Algebra, Linear Functions, Probability, Measurement Geometry, Proportional Reasoning, and Problem Solving.

SCIENCE

EARTH SYSTEMS AND SPACE SCIENCE
  CLASSES ELIGIBLE TO ENROLL:  9 - Required
  PREREQUISITE:  None
This course entails the study of Earth Systems and Space Science. It includes the study of the origin of the Universe, Solar System and Earth. The characteristics of planets in and out of our Solar System. The formation and age of the Earth, rock types, relative and absolute dating techniques, plate tectonics and weather and climate. Laboratories will include experiments and projects that illustrate and better emphasize the materials covered in class and help emphasize scientific concepts, laws and theories.

HONORS EARTH SYSTEMS AND SPACE SCIENCE
  CLASSES ELIGIBLE TO ENROLL:  9 - Required
  PREREQUISITE:  None
This course entails the study of Earth Systems and Space Science at a deeper and more complex level. It includes the study of the origin of the Universe, Solar System, and Earth. The characteristics of planets in and out of our Solar System. The formation and age of the Earth, rock types, relative and absolute dating techniques, plate tectonics, weather, and climate. Laboratories and field experiences will include experiments and projects that illustrate and better emphasize the materials covered in class and help emphasize scientific concepts, laws and theories at an accelerated level.

BIOLOGY
  CLASSES ELIGIBLE TO ENROLL:  10  Required
  PREREQUISITE:  None
General Biology is a life science that involves the study of ecology, genetics, and the cell. These areas of biology involve the study of basic biochemistry, the cell, cell division, cellular respiration, photosynthesis, the microscope, invertebrates, and lower vertebrates. Applications and analysis of this knowledge are major focus of the course. Dissection studies are also required.

HONORS BIOLOGY
  CLASSES ELIGIBLE TO ENROLL:  10- Required
This is a life science that involves the study of ecology, genetics, and the cell, at a deeper and more complex level. These areas of biology involve the study of basic biochemistry, the cell, cell division, cellular respiration, photosynthesis, the microscope, invertebrates, and lower vertebrates. Applications and analysis of this knowledge are major focus of the course. Dissection studies are also required.
Chemistry is all around us. Chemistry is usually defined as the study of the structure and properties of matter. During this course we will explore the nature of matter and the following topics will be covered:

- Atomic structure
- The Periodic Table
- Chemical Formulas
- The Mole
- Chemical Reactions
- Stoichiometry
- Chemical Bonding
- Quantitative chemistry
- Thermochemistry
- Introduction to the chemistry of solid, liquid and gases
- Acids/Bases

The laboratory activities serve to complement and reinforce topics covered in class and to provide practical laboratory skills.

**advanced chemistry available at teacher discretion.**

**DUAL CREDIT (CONCURRENT ENROLLMENT) BIOLOGY**

**CLASSES ELIGIBLE TO ENROLL: 11, 12**
**PREREQUISITE: 19 on the ACT or an A in sophomore biology and teacher approval**

This course is a yearlong course that covers the content in Biology 1010. The course begins with a sequence that includes the cell as a fundamental unit of life, membranes, cell specialization and diversity, and cellular chemistry. The energy pathways and cycles making up the processes of photosynthesis and respiration are examined. Units covering genetics and evolution will also be discussed.

**DUAL CREDIT (CONCURRENT ENROLLMENT) ENVIRONMENTAL SCIENCE**

**CLASSES ELIGIBLE TO ENROLL: 11, 12**
**PREREQUISITE: Algebra I or Basic Algebra**

Environmental Science studies the crossroads of many of the other sciences and where they interact with social and political issues. Topics covered include population growth, ecology, water quality, energy and natural resource use and climate.

**DUAL CREDIT (CONCURRENT ENROLLMENT) PHYSICS**

**CLASSES ELIGIBLE TO ENROLL: 11, 12**
**PREREQUISITE: Algebra I**

Physics studies the physical laws that govern the movement and interactions of many objects. This course studies Newton’s Laws of Motion, gravity, velocity, acceleration, electricity and magnetism, force, momentum, sound, and thermodynamics.

**FORENSICS**

**CLASSES ELIGIBLE TO ENROLL: 11, 12**
**PREREQUISITE: Earth Science and Biology**

Students must have successfully completed earth science and biology. The class is designed around authentic performance assessments with students working in teams to solve crimes using scientific knowledge and reasoning. It involves all areas of science including biology, anatomy, chemistry, physics, and earth science with an emphasis in
complex reasoning and critical thinking. In addition, students must incorporate the use of technology, communication skills, language arts, mathematics and social studies.

**HUMAN BIOLOGY**

**CLASSES ELIGIBLE TO ENROLL:** 10, 11, 12

**PREREQUISITE:** Completion of Earth Science

This course is a survey course in Human Biology. The course emphasizes the basic concepts necessary for a fundamental understanding of all the human body systems. This course introduces students to basic anatomical terms and their spelling, as well as symptoms and disease processes associated with each body system including nervous, endocrine, reproductive, cardiovascular, respiratory, urinary, digestive, musculoskeletal, and integumentary.

**SOCIAL STUDIES**

**AMERICAN GOVERNMENT**

**CLASSES ELIGIBLE TO ENROLL:** Required 12th

**PREREQUISITE:** Completion of US History and World History /Geography

*This class can be taken for concurrent enrollment with CWC.

The goal of the course is to promote civic responsibility. Students will examine the system of government in the United States by looking at the Constitution, the three branches of government, national, state and local government levels, how government is influenced, and citizenship and civil liberties. The class will emphasize student involvement and encourage students to relate important concepts and principles to historic and contemporary situations as well as to their own experiences.

**US HISTORY**

**CLASSES ELIGIBLE TO ENROLL:** Required 11th

**PREREQUISITE:** successful completion of World History/World Geography

Students will examine the domestic and international development of the United States both domestically and internationally. Students will analyze the events that shape who we are as citizens and the challenges we face together as Americans. Students will evaluate America’s role throughout the 20th Century, and into the modern era, as a force for good.

**DUAL CREDIT (CONCURRENT ENROLLMENT) US HISTORY**

**CLASSES ELIGIBLE TO ENROLL:** Required 11th

**PREREQUISITE:** an A in successful completion of World History/World Geography and teacher approval

HIST 1210 is study of the discovery and colonization of the U.S., the American Revolution, establishment of the Constitution, foreign affairs, westward expansion, sectionalism, the Civil War and reconstruction.

HIST 1220 is a study of the emergency of the United States as a world power; including industrialization and urbanization, American imperialism, progressivism, world wars, New Deal, and current issues.

**WORLD HISTORY**

**CLASSES ELIGIBLE TO ENROLL:** Required 10th

**PREREQUISITE:** NONE

Students will analyze the historical aspect of the rise of civilizations around the world in regional views as well as looking at the contemporary world. The focus of student learning will be modern World History from the periods starting in the 600 AD(CE) through 1800 AD (CE). History will be portrayed from the origins of Islam, the European Renaissance, and finish with the Enlightenment. Students will gain an understanding of the creation of western political thought, modern day government, and conflicting issues with the Middle East.
WORLD GEOGRAPHY

CLASSES ELIGIBLE TO ENROLL: REQUIRED 10th
PREREQUISITE: NONE
Students will analyze regions of the world (Europe, Asia, Middle East, Africa, North and South America) to determine the relationships by comparing and contrasting regions utilizing the 5 themes of geography (location, place, human-environment interaction, movement, and region). Students will also gain an understanding of the world from an economical standpoint through the global market along with side effects that come with economical gains.

PHYSICAL EDUCATION

PHYSICAL EDUCATION (9th Grade PE)

CLASSES ELIGIBLE TO ENROLL: Required 9th/10th class-Semester class ½ credit
Students will participate in a variety of units including lifetime activities, individual, and team sports. The objectives of the Physical Education Program are to acquire lifetime fitness skills, generate motor skills, develop a knowledge of rules, and ultimately develop lifetime activity interests. These objectives will be accomplished through the participation in the following activities: Softball, Fly Fishing, Aerobics, Weight Training, Tennis, Lacrosse, Table Tennis, and Golf. “The World has a lot to offer you may as well try it all!”

PHYSICAL CONDITIONING

CLASSES ELIGIBLE TO ENROLL: 10, 11, 12
The classes will be using a variety of weight training programs to facilitate maximum muscular and cardiovascular development. This class is for those who are serious about making muscular gains, becoming quicker, more agile, and getting ready to compete at the highest level. You will be learning what it takes to compete at the highest levels of high school and college. The class will be centered around cutting edge lifting techniques and programs. “Never be happy with mediocrity.”

LIFETIME SPORTS

CLASSES ELIGIBLE TO ENROLL: 11, 12
This course is designed to provide an opportunity for students to acquaint themselves with activities that they can participate in for their lifetime. If you are a student who desires to improve your fitness, knowledge of activities, and overall health, this is the class for you! Moderate levels of physical conditioning and personal improvement plans will be developed. Lifelong sports such as softball, disc golf, swimming, golf and such may be explored as per class interest, But New this year Canoeing and Rock Climbing. “Get out and play, you’re never too old.”

FOREIGN LANGUAGE

SPANISH I

CLASSES ELIGIBLE TO ENROLL: 9 – 12
PREREQUISITE: 8th grade reading level. A "C" average or better in other classes, or teacher approval.
In our ever-changing world, the ability to speak and understand a language other than English is becoming a necessity. In the West, the second language most often learned is Spanish. Here at HSCHS, Spanish I is an introduction to the language, peoples, and culture of the 21 Spanish speaking countries around the world. Vocabulary and basic grammar are stressed, along with speaking, reading and writing in Spanish. This course is an excellent college preparatory
experience. This class will be capped at 20 students and priority will be given to 12th, 11th, and 10th graders and students signed up for the foreign language club trip.

**SPANISH II**

**CLASSES ELIGIBLE TO ENROLL: 10, 11, 12**

**PREREQUISITE:** A minimum grade of a 75% “C” in Spanish I **AND TAKEN CONSECUTIVELY WITH SPANISH I**, or **UPON** teacher approval

Spanish II is designed as a continuation of Spanish I. Students continue to explore the language by expanding their vocabulary and grammar as well as their knowledge of the Spanish culture and peoples. Written and spoken Spanish are stressed. This is a challenging course where students begin to utilize the previously acquired structures in communicative situations and **to develop higher grammar and communication structures**. This course is an excellent college preparatory experience. This class will be capped at 20 students and priority will be given to 12th, 11th, and 10th graders and students signed up for the foreign language club trip.

**Two years of a foreign language is often required by colleges outside of Wyoming**

***2 years of Foreign Language required for top two tiers of the Hathaway Scholarship Program.***

**FINE ARTS**

**ART 1/INTRODUCTION TO CERAMICS**

**Art 1:** is a prerequisite to any advanced art course. The class teaches students the elements and principles of art through a variety of projects. The course covers 2-dimensional art, such as drawing, painting, and printmaking, and 3-dimensional art, such as ceramics and sculpture. Work in aesthetics, art history, and art criticism is included but studio experience is stressed.

**Intro to Ceramics:** This course is designed as an introduction to techniques of handbuilding. Emphasis is placed on the design and craftsmanship. As students advance, they will explore a variety of different design techniques, glazing methods, and surface decorations including an introduction to work on the potter’s wheel.

*Projects will alternate between 2D and 3D work during the course of a semester long class.*

**ART 2/*CERAMICS**

**PREREQUISITE:** Art 1/intro to ceramics

This class focuses on building upon current drawing and painting skills including visual themes and personal style.

*Ceramics will be offered in Art 2 class to students who have recognized their love and appreciation for this media. It will not be required for all Art 2 students.* **This course may be taken multiple times.**

**ADVANCED ART /PORTFOLIO**

**CLASSES ELIGIBLE TO ENROLL: 10-12 - Semester Class**

**PREREQUISITE:** Art 1/intro to ceramics, Art 2

Advanced art is for the serious, self-motivated student, who wants advanced studio time for creating 2-dimensional or 3-dimensional art. Students in this class will be required to complete 5 or more projects assigned by the teacher, and 3 projects that are self-defined. Special emphasis will be placed on creativity and creating original and authentic work. Students will be expected to explore different media within the five projects. Also, students will need to stretch their past knowledge and step out of their comfort zone. For example, if a student excels at pencil portraits, the expectation would be that the student attempt a portrait in a new media (acrylic paint, ink, etc.) or a different subject matter.

*This course may be taken multiple times.*
BOBCAT BAND

CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, and 12
The band offers experiences in the following areas: Marching Band, Concert Band, Pep Band, Jazz Band (during zero hour twice a week) small ensembles and solo performances. The bands play for home football and basketball games, concerts, clinics, and festivals. Small ensembles and soloists perform for civic organizations that call upon the instrumental department for entertainment, along with participating at district festivals. The Bobcat Band program is designed to develop musicianship and give young players opportunities to mature musically. During the course of the school year, the band reads through many selections of all types of music. Prior experience in band is preferred.

CHANTEUR CHOIR (mixed concert choir)

CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, and 12
Chanteur Choir at H.S.C.H.S. will be open to students grades 9-12 that like to sing and/or wants to learn to sing. Auditions for part placement are required. No prior experience is needed to participate. The Choir will perform two or three concerts each year and sing for graduation. Solos and ensembles will be selected from the choir and will rehearse before and after school. Some students will attend the District Clinic in the fall. The Choir will also participate at District Festival, as well as solos and small ensembles. Along with learning vocal techniques, students will learn through collaboration and participation within various styles of music.

GUYS AND DOLLS (vocal jazz/show choir)

CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, 12
PREREQUISITE: Audition Only.
This choral ensemble is by audition only and includes a rhythm section comprised of piano, drum-set, bass, and guitar. Students will perform a wide variety of jazz standards as well as a more modern tune selection. Students will perform 2-3 concerts a year as well as attend clinics, district festival, and jazz festival. This class will cover topics such as vocal technique, appropriate performance habits, and use of microphones and sound systems. Students in this class should be listening to at least 15-30 minutes of stylistically appropriate music (jazz, soul, RnB, etc.) a day.

AUDIO TECHNOLOGY (Fall Semester)

CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, 12
PREREQUISITE: Interview and Teacher Approval
This class will provide students with the knowledge and skills necessary to grow and thrive in the world of audio technology. Throughout the semester and year students will have the opportunity to work live performances (set-up, mixing, and tear-down), studio recording (auditions and multi-track), and stage crew (various events). By taking this class students will be exposed to a large career market in the audio industry. To be successful in this class students must be reliable, diligent, and have a passion for music and sound.

DRAMA (Spring Semester)

CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, 12
Spring semester drama will have students learning the craft of acting, staging, and production. Students will experience a wide variety of genres including, but not limited to, comedy, drama, musicals, and improvisation.
Some classes may not be available.
Some classes are semester classes.

**ONLINE AND PRINT MEDIA**

**CLASSES ELIGIBLE TO ENROLL:** 9, 10, 11, 12

**PREREQUISITES:** Honors English, creativity and interest in photography. Approval of the instructor/adviser required.

This class is responsible for production of both the Roundtop Yearbook and the Predator online student news portal. Students will balance their time working on articles for the Predator and working on spreads for the Yearbook. Students must be willing to devote extra time, accept criticism, be responsible, meet deadlines, and work independently. Students are encouraged to remain part of the staff by taking the class every year. The demands are rigorous and the stress level high, but the rewards are outstanding. Yearbook experience is valuable when applying for college admission & scholarships.

**AP COMPUTER SCIENCE**

**CLASSES ELIGIBLE TO ENROLL:** 11-12

**PREREQUISITE:** Algebra 2 (or concurrent enrollment and instructor approval)

AP Computer Science is a college level Introductory Computer Science class. Students will be able to: design and implement solutions to problems by writing, running, and debugging computer programs in an object oriented programming language (Java). The class uses an object first approach to teaching computer science. Students will also be able to recognize the ethical and social implications of computer use. The class will culminate in the AP Computer Science A comprehensive exam.

**INTERNET MASTERY**

**CLASSES ELIGIBLE TO ENROLL:** 9-12

**PREREQUISITE:** None

Covers expert level skills on the internet - Google Drive, Google Docs, GMail, Google Spreadsheets, running a YouTube account, efficient typing, website design, internet of things, and making your life easier through technology, etc.

**ENGINEERING DESIGN:**

**CLASSES ELIGIBLE TO ENROLL:** 9-12

**PREREQUISITE:** None

Experience with the engineering and prototyping process, work with designing products through 3D modeling and printing, constructing real-world solutions in robotics, electronics, microcontrollers, and other means. Students participating in Bobcat Robotics can use robot components for project/course requirements.

**AUTO I**

**CLASSES ELIGIBLE TO ENROLL:** 10, 11, 12

**PREREQUISITE:** TBA

**AUTO II**

**CLASSES ELIGIBLE TO ENROLL:** 10, 11, 12

**PREREQUISITE:** TBA
AUTO III & IV

- CLASSES ELIGIBLE TO ENROLL: 11,12
- PREREQUISITE: TBA

WOOD TECHNOLOGY I

- CLASSES ELIGIBLE TO ENROLL: 9-12
- PREREQUISITE: None
- $10 Lab Fee

Wood Technology I - A basic woodworking course for students who want to learn how the design and construction processes work for wood based projects. We will learn proper measurement and mark out techniques. We will be learning with some hand tools, as well as, common power tools. In using what we learn, the students will be able to properly design, layout, construct, and finish at least one project.

For those students who work on individual projects, the material used has to be paid for by the student, before work starts.

Appropriate (Z87+) Safety Glasses Required.

WOOD TECHNOLOGY II

- CLASSES ELIGIBLE TO ENROLL: 10, 11, 12
- PREREQUISITE: Wood Technology I
- $10 Lab Fee

This course is designed for students who want to learn more advanced Woodworking techniques. Cabinet Making, Joinery, and Veneers will be some of the techniques studied. Using proper terminology, and up to date tools/techniques, the students will design, layout, construct, and finish at least one project during the course. Emphasis will be placed on work ethic, attitude, safety, ability to work with others, following directions, and proper craftsmanship techniques. For those students who work on individual projects, the material used must be paid for by the student, before work starts.

Appropriate (Z87+) Safety Glasses Required.

WOOD TECHNOLOGY III

- CLASSES ELIGIBLE TO ENROLL: 11, 12
- PREREQUISITE: Wood Technology I & II and INSTRUCTOR PERMISSION
- $20 Lab Fee

This course is designed for students who want to achieve at a higher level, perhaps preparing for a career in the industry. We will be looking at many different career opportunities related to Woodworking Technology. Timber Harvest, Wood Product production, Framing and Finishing Construction Industries; all of which are in need of skilled people in these careers.

The Building Construction Processes will be introduced. The study of General Architectural Design, Site Layout, Jobsite Safety, Building Types, Framing Types, Building Materials, and Terminology will be discussed. We will also be looking at the major Mechanical Systems involved in Residential Structures. The students will have the opportunity to design, construct, and finish at least one major project during this class. For those who do individual projects, the material used must be paid for by the student, before work starts.

Appropriate (Z87+) Safety Glasses Required.

FOODS

- CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, 12
- PREREQUISITE: Application

Learn food and kitchen safety, food prep, cooking in a professional kitchen, recipes and nutrition. Hands on learning working beside our cooks. A maximum two students will be scheduled, per period, 1-4. Additional opportunities at RWE following the same criteria.
AGRICULTURE I

CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, 12
PREREQUISITE: All First Year Ag Students

All first year ag students are encouraged to take this class. It will be a full year class that is 60 minutes. We need the whole year to cover all the information, and fulfill the standards. This class is fun and exciting, and it will really get you excited about Agriculture. Along with FFA requirements this is a fun filled class. This is an introductory class that will touch on the following areas: Ag Mechanics, Animal Science, Farm and Ranch management, Crops and Soil Science, FFA/SAE, Food Science and Ag Issues. Students will be introduced to a basic level of these areas. Green hand requirements will begin for all first year ag kids. Students are not required to join FFA although FFA is a big part of this class.

AGRICULTURE II

CLASSES ELIGIBLE TO ENROLL: 10, 11, 12
PREREQUISITE AG I

This class is structured like Ag I, but adjusted for your second year in Ag. All sophomores need to take this class. They will then move onto Ag III-IV when they are juniors. We will continue covering the basics of the following enterprises: Ag Mechanics, Animal Science, Farm and Ranch Management, Crops and Soil Science, FFA, Food Science and Ag Issues. I will also spend some time on SAE’s (Supervised Agriculture Experiences), CDE’s (Career Development Events) and Proficiencies in preparation for State Convention. This will be a great class, with lots of group projects, and individual work. We will spend some time in the shop, with a class project. We will also spend time in the greenhouse and with aquaculture.

AGRICULTURE III IV

CLASSES ELIGIBLE TO ENROLL: 11, 12
PREREQUISITE: Ag I & II

This is the third and fourth level of the classes offered in the Ag Department. You must be a junior or senior to enroll in this class. We will cover a higher level of the following areas: Ag Mechanics, Animal Science, Farm and Ranch Management, Crops and Soil Science, FFA/SAE, Food Science and Ag Issues. This class will challenge students to expand their agriculture understanding. We will cover topics in-depth so the student has a better understanding of the subject area. For those who have shop projects, we will have time to work in the shop, but there will be a lot of class time also.

AGRICULTURE STRUCTURES

CLASSES ELIGIBLE TO ENROLL: 10, 11, 12
PREREQUISITE: Ag I

*FFA members have to get an ok from me to take this as their ag class.* This class is a shop class and it is not structured to fit the FFA Degree programs. This class is basically a welding class. It will be for 90 minutes for a semester. We will cover three different types of welding, and practice different skills. Students will complete skills, construct plans and bills of materials before construction of a project will take place. All levels of welders are encouraged to enroll in this class. You will also complete the standards requirements for Vocational Education.

ADVANCED AG STRUCTURES

CLASSES ELIGIBLE TO ENROLL: 11,12
PREREQUISITE: AGRICULTURE STRUCTURES or Agriculture I, and II

This class is a continuance of Ag Structures. We will spend a few weeks in the classroom covering safety and then we will go right to skills and then to building projects. *Complex projects are encouraged, and you must have a project in mind when you sign up for this class or you will fail the class.* As you will have to complete one major project and 2 minor projects. All students that have taken Ag Structures last year are encouraged to take this class.
DIGITAL LEARNING

CLASSES ELIGIBLE TO ENROLL: 9, 10, 11, 12
PREREQUISITE: NONE

This class will allow students to choose from several coach/staff assisted pacing courses that enable anyone to learn business, software, technology and creative skills to achieve personal and professional goals through lynda.com; opportunities for specialized classes that would not otherwise be available in a small community. They will be expected to be self motivated, and encouraged to find resources and information according to their program choice. Course categories include:

- audio & music
- business/marketing
- design
- Information technology
- photography/Videography

Many courses have possible certifications available through further advancement after these introductory courses. These courses will be considered semester classes for ½ elective credit, with the option to continue with more specific courses that pertain to student interest the following semester.

LEADERSHIP

CLASSES ELIGIBLE TO ENROLL: 11, 12
PREREQUISITE: Students in a leadership position in the school

The objective of the class is to build and develop our school leaders. Areas of concentration will be, leadership, public speaking, decision making, parliamentary procedure, and event organization. The class is designed for all upperclassmen leaders from FFA, Cheer, Student council, Key club, Peer Mentoring, just to name a few. You will be given time during school to work on all of the important events that take place during the school year.

WORK EXPERIENCE

CLASSES ELIGIBLE TO ENROLL: 11, 12
PREREQUISITE: 2.5 GPA. Students in good standing

The objective of the class is to prepare you for the work force. Students are required to complete tests that identify their present skill set and help them set goals for their future education. Students also will fill out job applications and apply for three jobs, and complete interviews for each of them. Upon completion of these requirements, students are released to work in the position that was the best fit. Students are required to have access to an IPAD or IPHONE to be able to log into the required system that is used for tracking.

DUAL CREDIT / CONCURRENT ENROLLMENT COURSES WITH CWC

ENGLISH 1010

CLASSES ELIGIBLE TO ENROLL: 12 – ACT of 19 or above
PREREQUISITE: Students must pass this class with a “C” or higher to receive CWC college credit.

English 1010 is designed to help students improve their ability to communicate in writing. A central objective of the course is to prepare students to successfully complete various writing assignments frequently required of college students. The course emphasizes clear, well-ordered expository and argumentative writing, with variety in sentence
structure, carefully developed paragraphs, smooth transitions, and appropriate use of the language. This is a dual credit class. Only seniors may enroll who have passed the Compass Test and met the appropriate standards.

**ENGLISH 1020**

**CLASSES ELIGIBLE TO ENROLL: 12 – ACT of 19 or above**

**PREREQUISITE:** Students must pass this class with a “C” or higher to receive CWC college credit. Students must also pass ENGL 1010 with at least a “C” to take 1020.

English 1020 is the second semester of college-level composition, and is a reading and writing course based on literary texts. Analysis of short stories, poems, novels, and plays will be the focus of writing and discussion. Development of literary appreciation through reading and writing is stressed, in addition to the development of vocabulary and commonly alluded works of famous literature, and work on advanced composition. This is a dual credit class. Only seniors may enroll who have passed the Compass Test and met the appropriate standards.

**MATH 1400 and 1405 – PRECALCULUS AND TRIGONOMETRY**

This course is a Year commitment; regardless of student's grade any withdraw after the first week will result in a withdrawal failing on record.

**PREREQUISITE:** Algebra I, Geometry, Algebra II with a minimum average of 3.0 in those classes. Dual Credit: 4 credit hours. A minimum ACT score of 23 in Math, or qualifying scores on CWC placement tests College Credit through CWC.

This course is comprised of MATH 1400 and MATH 1405. The first semester is MATH 1400- Pre Calculus. It emphasizes aspects of algebra and trigonometry which are important in the study of calculus as well as functions and their applications to real world problems. Topics include polynomial, exponential, logarithmic and trigonometric functions and their inverses. Functions are evaluated and analyzed graphically, numerically, and algebraically. Graphing calculators are required both in class and with homework assignments. Students who qualify may earn credit in MATH 1400 and 1405. The student will be prepared for college calculus upon successful completion of this course.

**MAJOR TOPICS:**

- Use a graphing utility to construct and interpret models
- Solve linear inequalities and polynomial, rational, piecewise-defined, exponential and logarithmic equations
- Evaluate and analyze functions graphically, numerically, and algebraically
- Apply exponential and logarithmic properties to evaluate and manipulate expressions and equations
- Evaluate and analyze trigonometric functions graphically, numerically, and algebraically
- Use Identities to simplify and solve trigonometric equations
- Use vectors to describe position and magnitude
- Work with polar and parametric functions

*Topics covered are subject to change as they are determined by CWC Math Department.*

**DUAL CREDIT (CONCURRENT ENROLLMENT) BIOLOGY**

**CLASSES ELIGIBLE TO ENROLL: 11, 12**

**PREREQUISITE:** 19 on the ACT or an A in sophomore biology and teacher approval

This course is a yearlong course that covers the content in Biology 1010. The course begins with a sequence that includes the cell as a fundamental unit of life, membranes, cell specialization and diversity, and cellular chemistry. The energy pathways and cycles making up the processes of photosynthesis and respiration are examined. Units covering genetics and evolution will also be discussed.

**DUAL CREDIT (CONCURRENT ENROLLMENT) ENVIRONMENTAL SCIENCE**

**CLASSES ELIGIBLE TO ENROLL: 11, 12**

**PREREQUISITE:** Algebra I or Basic Algebra
Environmental Science studies the crossroads of many of the other sciences and where they interact with social and political issues. Topics covered include population growth, ecology, water quality, energy and natural resource use and climate.

**DUAL CREDIT (CONCURRENT ENROLLMENT) PHYSICS**  
**CLASSES ELIGIBLE TO ENROLL:** 11, 12  
**PREREQUISITE:** Algebra I  
Physics studies the physical laws that govern the movement and interactions of many objects. This course studies Newton’s Laws of Motion, gravity, velocity, acceleration, electricity and magnetism, force, momentum, sound, and thermodynamics.

**DUAL CREDIT (CONCURRENT ENROLLMENT) US HISTORY**  
**CLASSES ELIGIBLE TO ENROLL:** Required 11th  
**PREREQUISITE:** an A in successful completion of World History/World Geography and teacher approval  
HIST 1210 is study of the discovery and colonization of the U.S., the American Revolution, establishment of the Constitution, foreign affairs, westward expansion, sectionalism, the Civil War and reconstruction.  
HIST 1220 is a study of the emergency of the United States as a world power; including industrialization and urbanization, American imperialism, progressivism, world wars, New Deal, and current issues.

**AMERICAN GOVERNMENT - Semester**  
POLS 1000 – American & Wyoming Government. 3 credits (E/V) This introductory course meets the requirements of the Wyoming statute for providing instruction in the principles, processes, and structures of the U.S. and Wyoming constitutions and political systems. (3 lect.) U.S. and Wyoming Constitution POLS

**PSYCHOLOGY**  
This course will study the neurological basis of behavior, motivation, emotions, perception, learning and thinking, individual differences, personality development, mental health, and the treatment of emotional illness.

**ONLINE CWC COURSES - Semester**  
**CLASSES ELIGIBLE TO ENROLL:** 10, 11, 12  
**PREREQUISITE:** 3.0 GPA or higher  
The CWC course catalog for the current semester can be found at [http://www.cwc.edu/schedules-catalogs/](http://www.cwc.edu/schedules-catalogs/)  
Sophomores with can take one online class per semester; Juniors can take two online classes per semester; Seniors can take up to three online classes per semester. If a student fails or withdraws from an online class, then the student would be unable to take an online course for a full semester. The student can resume taking online courses after a full semester passes and the student maintains a cumulative GPA of 3.0 or higher.

**SPECIAL SERVICES DEPARTMENT**

**Transitioning** - The curriculum focuses on strengthening academic life skills in reading, math and writing; improving students’ skills in accessing community resources; developing students’ socialization and communication skills; and expanding students marketable employment skills through job experiences on campus and with community-based partners.

**Study Skills** - Skills Interventions are provided per IEP and demonstrated need. Study skills strategies are presented and modeled such as note taking, summarizing, finding the main topic, and test-taking strategies.

**Life Skills** - Students learn how to live in a community environment: including the concepts of managing bills (rent/mortgage, utilities, & etc.) and income; grocery shopping; cooking/prepare meals; learning how/where to access community resources including medical and legal services.
Language Interventions - Students receive intensive reading comprehension and writing intervention. Instruction is focused on vocabulary and language development, thinking skills, and reading comprehension and writing skills and strategies.

Reading Interventions - Reading interventions addresses the needs of struggling readers through differentiated instruction, high-interest literature, and explicit instruction in reading, writing, and vocabulary skills.

Social Skills - Intensive instruction in social and behavioral-related areas including anger management, self-regulation, conflict resolution, communicating with others, telephone etiquette, and peer interactions.

CBI- Community Based Instruction - Learning skills needed for employment, time management, following direction from management, learning and completing work, job skills. Student programs are individualized and determined by the IEP team with a focus on acquiring skills for independent living. Instruction is delivered in the classroom, in the community, and at community job internship sites.

Safety Skills - Students will learn personal, fire, home, and first aid safety in preparation for independent living.

Targeted Math - Students are provided explicit instruction in basic mathematical skills and concepts with an emphasis on relating problem solving to real life situations. Skills include whole number computation, fractions, measurements, money, time, value, estimation and calculator use.

Consumer Math - Intensive math instruction targeting application of basic math skills to everyday situations. Students develop competencies in mathematics for personal use including concepts of budgeting, cost comparison, credit purchasing, and banking.
DUAL CREDIT (CONCURRENT ENROLLMENT) &
ON-LINE OFFERINGS
CWC Independent Study Classes

Students who are a Junior or Senior in good standing, with a 3.0 GPA or higher can take CWC Online courses as an independent study period. Sophomores with a 3.5 GPA may also petition to take these courses.

If a student fails the class or withdraws after the drop date, this will result as an F on the student's high school transcript, and the student will not be eligible to take CWC Online courses for one semester.

Students will report to Mrs. Freel’s classroom each day during the assigned class period to work on the class.

NHS REQUIREMENTS

National Honor Society Requirements

Generally:

- Have a 3.5 cumulative GPA to initiate an application and maintain this each term
- Complete required NHS application materials
- Carry an educational program of academically advanced coursework, and
- Have approval of the HSCHS NHS Faculty Committee

English:

Juniors: Must be enrolled in Honors English III
Seniors: Must be enrolled in English 1010 and English 1020

Math:

Must be passing Algebra 2 with an A or B. Passing Honors Algebra 2. Passing Advanced Math courses.

Foreign Language:

Must have taken and passed one semester

Science:

Dual Credit Physics, Dual Credit Chemistry, Forensics, Dual Credit Environmental Science, Dual Credit Biology, AP Computer Science, or any dual credit Science course

Social Studies:

Honors Government
April 15, 2015