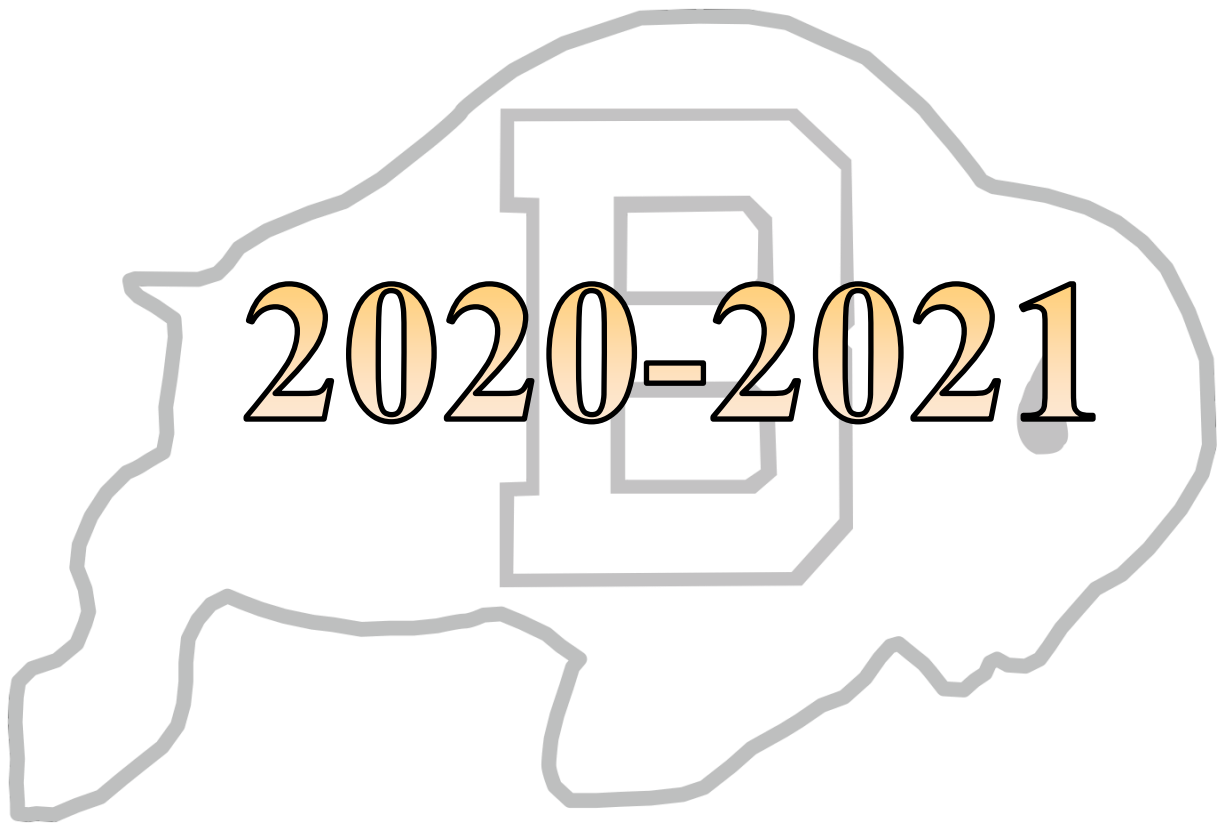


BUFFALO

HIGH SCHOOL



Course Description Book



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Dear Parents, and Guardians,

Registration time offers a good opportunity to discuss a student's past accomplishments and future goals. In order for a student to select those courses that are in his/her best interest, it is important for parents to be actively involved. Too many graduates express that they wish they had taken specific courses designed to meet their individual needs, rather than some course selected without proper consideration for their future plans.

It is the desire of the administration and staff at Buffalo High School, that students be prepared as adequately as possible for ANY option. Because you are vitally interested in your child's education, we are asking for your input as your student creates his/her schedule for the upcoming school year.

Each student will choose a minimum of eight courses and then list two alternate courses in order of preference. We will make every effort to schedule students into the elective classes chosen. A wide range of elective courses are offered at Buffalo High School; however, because the majority of these classes are offered only once per school day, we may be forced to make changes during the scheduling process; hence, the alternate choices.

Following you will find the current graduation requirements at Buffalo High School, the recommended college entrance requirements at most major colleges, and the NCAA Freshmen Eligibility requirements for Division I and Division II college athletic participation. If you have any questions or concerns, please feel free to call the school's Counselor at (307) 684-2269 anytime during the school day.

BHS Graduation Requirements

To graduate from Buffalo High School, a student must meet the following requirements:

- Earn a minimum of 24 credits in grades 9 – 12 (28+ credits is the recommendation)
- Be proficient in the principles of the Wyoming Constitution as demonstrated by passing the American Government Class or an equivalent transfer course
- Meet the following credit requirements:

English	4 credits
Social Studies (World History, US History, American Government)	3 credits
Science	3 credits
Mathematics	3 credits
Physical Education	2 credits
Elective Classes	9 credits

For students seeking attendance at a major university, we highly recommend two or more years of Foreign Language in addition to the expected core requirements.

Minimum requirements for graduation = 24 credits.

A credit is equivalent to the **successful** completion (grade of D or better) of two semesters of work in that subject.

There is ONE diploma granted through Buffalo High School. Transcripts will indicate level of achievement.

UNIVERSITY OF WYOMING ADMISSION STANDARDS

A cumulative, unweighted high school GPA of 3.0 (on a 4.0 scale)

A minimum composite ACT score of 21 or SAT* score of 1060

Completion of the following while attending high school:

4 years English

4 years Math* (must include Algebra I, Algebra II, and a Geometry)

4 years Science (must include a physical science [physics, chemistry, or a college prep physical science course] Remaining sciences may be a combination of biological, live, physical, or earth/space science courses)

3 years Social Science

2 years Foreign Language*

2 years Additional Coursework (Can include fine and performing arts, social and behavioral studies, humanities, additional foreign language, or career-technical courses)

**Some math and foreign language requirements may be met in grades 7 & 8.*

Admission with Support*

Submitted official ACT or SAT test scores

A cumulative, unweighted high school GPA of:

2.5 - 2.99 or

2.25 - 2.49 **and** a minimum composite ACT score of 20 or SAT* score of 1020

Completion of the above course list with no more than two deficiencies. Both deficiencies cannot occur in the same curriculum category.

**To foster academic success, students admitted with support participate in UW's nationally recognized Bridge program or other academic transition programs.*

NCAA ACADEMIC STANDARDS

Complete 16 core courses;

4 years of English

3 years of math (Algebra 1 or higher)

2 years of natural/physical science (including one year of lab science if your high school offers it)

1 additional year of English, math or natural/physical science

2 years of social science

4 additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.

Earn at least a 2.3 GPA in your core courses.

Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

HATHAWAY SCHOLARSHIP REQUIREMENTS

Honors GPA 3.5 ACT 25 \$1,680 Max Award Amount Per Semester	Performance GPA 3.0 ACT 21 \$1,260 Max Award Amount Per Semester	Opportunity GPA 2.5 ACT 19 \$840 Max Award Amount Per Semester	Provisional GPA 2.5 ACT 17 or WorkKeys 12 \$840 Max Award Amount Per Semester
May be used at a WY community college or at UW	May be used at a WY community college or at UW	May be used at a WY community college or at UW	4 full-time semesters. Students with a certificate can extend for an additional 4 full-time semesters at a community college.*
Language Arts 4 Years (Grades 9-12 Only)	Language Arts 4 Years (Grades 9-12 Only)	Language Arts 4 Years (Grades 9-12 Only)	Language Arts Current HS graduation requirements
Math 4 Years Algebra I, Algebra II, Geometry, and one “additional math” course taken in grades 9-12	Math 4 Years Algebra I, Algebra II, Geometry, and one “additional math” course taken in grades 9-12	Math 4 Years Algebra I, Algebra II, Geometry, and one “additional math” course taken in grades 9-12	Math Current HS graduation requirements; at least 2 of these courses: Algebra I, Algebra II, Geometry
Social Studies 3 Years (Grades 9-12 Only)	Social Studies 3 Years (Grades 9-12 Only)	Social Studies 3 Years (Grades 9-12 Only)	Social Studies Current HS graduation requirements
Science 4 years (Grades 9-12 Only) One year may include an “additional science” course	Science 4 years (Grades 9-12 Only) One year may include an “additional science” course	Science 4 years (Grades 9-12 Only) One year may include an “additional science” course	Science Current HS graduation requirements
FPA or CTE or FL 4 years of either fine and performing arts, career and technical education, or foreign language <u>2 years must be sequenced</u>	FPA or CTE or FL 4 years of either fine and performing arts, career and technical education, or foreign language <u>2 years must be sequenced</u>	FPA or CTE or FL 2 years of either fine and performing arts, career and technical education, or foreign language (Sequenced)	FPA or CTE or FL 2 years of either fine and performing arts, career and technical education, or foreign language (Sequenced)

CORE COURSE OFFERINGS 2020-2021

Classes are listed at the level a student is first eligible to take the course; students who have advanced beyond the level listed are also eligible to take the course providing they meet all other requirements.

CORES	GRADE 9	GRADE 10	GRADE 11	GRADE 12
ENGLISH	English 9	English 10	English 11 AP English** College Comp** Mythology/Fantasy Film Studies Backstage Drama	AP English** College Comp** Mythology/Fantasy Film Studies Backstage Drama
MATH (at your level)	#Intervention Math Algebra I Geometry/Trigonometry	Algebra I Geometry/Trigonometry Algebra II	Geometry/Trigonometry Algebra II Pre-Calculus**	Algebra II Senior Math AP Calculus Introduction to Statistics
SCIENCE	Biology General Science	Biology College Prep Chemistry Life Science	AP Environmental Science Human Biology** Conceptual Chemistry College Prep Chemistry	Advanced Chemistry** AP Biology Human Biology** Physics AP Environmental Science
SOCIAL STUDIES	World History	US History	American Government**	Psychology**
PHYSICAL EDUCATION	PE/Health 9	PE/Health 10		

*.5 Credit for full year **Eligible for college credit #Teacher approval required
Courses in bold face print are semester courses

ELECTIVE COURSE OFFERINGS 2020-2021

ELECTIVES	GRADE 9	GRADE 10	GRADE 11	Grade 12
CAREER AND TECHNICAL EDUCATION	<u>COMMUNICATION</u> Public Speaking	<u>ACCOUNTING & FINANCE</u> Accounting I**	<u>ACCOUNTING & FINANCE</u> Accounting I**	<u>ACCOUNTING & FINANCE</u> Accounting I** L.I.F.E.**
	<u>COMPUTER AIDED DRAFTING & DESIGN</u> Foundations of Design & Production Robotics & Drone Technology	<u>COMMUNICATION</u> Public Speaking	<u>COMMUNICATION</u> Public Speaking	<u>COMMUNICATION</u> Public Speaking
	<u>COMPUTER SCIENCE</u> Computer Science	<u>COMPUTER AIDED DRAFTING & DESIGN</u> 3D Animation Architectural Design** Engineering Principles** Foundations of Design & Production Graphic Design & Advertising** Video Game Design** Robotics & Drone Technology	<u>COMPUTER AIDED DRAFTING & DESIGN</u> 3D Animation Architectural Design** Engineering Principles** Foundations of Design & Production Graphic Design & Advertising** Robotics & Drone Technology Video Game Design**	<u>COMPUTER AIDED DRAFTING & DESIGN</u> 3D Animation Architectural Design** CAD Capstone Engineering Principles** Foundations of Design & Production Graphic Design & Advertising** Robotics & Drone Technology Video Game Design**
	<u>MANAGEMENT & MARKETING</u> Entrepreneurship Marketing 101	<u>COMPUTER SCIENCE</u> Computer Science	<u>COMPUTER SCIENCE</u> Computer Science AP Computer Science Principles	<u>COMPUTER SCIENCE</u> Computer Science AP Computer Science Principles
	<u>MISCELLANEOUS</u> Driver's Education	<u>MANAGEMENT & MARKETING</u> Adv. Entrepreneur Entrepreneurship Marketing 101	<u>MANAGEMENT & MARKETING</u> Adv. Entrepreneur Entrepreneurship Maker's Market Marketing 101 WORKKEYS/ OJT	<u>MANAGEMENT & MARKETING</u> Adv. Entrepreneur Entrepreneurship Maker's Market Marketing 101 WORKKEYS/ OJT
	<u>SOFTWARE APPS</u> Adobe Essentials Business Applications	<u>MISCELLANEOUS</u> Driver's Education	<u>MISCELLANEOUS</u> Driver's Education Office Aide Culinary Arts	<u>MISCELLANEOUS</u> Driver's Education Commercial Driver's License Equipment Operating Office Aide Teacher Aide (District) Certified Nursing Assistant Culinary Arts Independent Study
	<u>WOODWORKING & AG</u> Agriscience Farm Shop I Horticulture Plant Science Woodworking I	<u>SOFTWARE APPS</u> Adobe Essentials Business Applications	<u>SOFTWARE APPS</u> Adobe Essentials Business Applications Social Media/Yearbook#	
		<u>WOODWORKING & AG</u> Agriscience Animal Science Farm Shop II Horticulture Plant Science Woodworking II	<u>WOODWORKING & AG</u> Woodworking I & II	

			Construction Tech Ag Power Mechanics Agriscience Animal Science Farm Shop I & II Horticulture/Plant Science	<u>SOFTWARE APPS</u> Adobe Essentials Business Applications Social Media/Yearbook# <u>WOODWORKING & AG</u> Woodworking I & II Construction Tech Ag Power Mechanics Agriscience Animal Science Farm Shop I & II Horticulture/Plant Science
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FINE ARTS	<u>ART</u> Art Survey Ceramics I <u>Chorale Music</u> #Balladiers Men's Choir Treble Choir <u>Instrument Music</u> Band - Winds #Jazz Ensemble #Percussion Ensemble	<u>ART</u> Art Survey Drawing/Painting I Printmaking** Ceramics I/II <u>Chorale Music</u> #Balladiers Men's Choir Treble Choir <u>Instrument Music</u> Band - Winds #Jazz Ensemble #Percussion Ensemble	<u>ART</u> Art Survey Drawing/Painting I/II Printmaking** Ceramics I & II Advanced Ceramics <u>Chorale Music</u> #Balladiers Men's Choir Treble Choir <u>Instrument Music</u> Band - Winds #Jazz Ensemble #Percussion Ensemble	<u>ART</u> Art Survey Drawing/Painting I/II Printmaking** Ceramics I & II Advanced Ceramics <u>Chorale Music</u> #Balladiers Men's Choir Treble Choir <u>Instrument Music</u> Band - Winds #Jazz Ensemble #Percussion Ensemble
FOREIGN LANGUAGE	Spanish I	Spanish I Spanish II	Spanish I Spanish II Spanish III/V**	Spanish I Spanish II Spanish III/V**
SPECIAL EDUCATION	Adapted PE English Learning Strategies Life Skills Math Science Social Studies	Adapted PE English Learning Strategies Life Skills Math Science Social Studies	Adapted PE English Learning Strategies Life Skills Math Science Social Studies World of Work	Adapted PE English Learning Strategies Life Skills Math Science Social Studies World of Work
MISC	Driver's Education	Driver's Education	BHS Office Aide* BHS Teacher Aide*	BHS Office Aide* Teacher Aide (District Wide)* #Independent Study

*½ credit for full year **Eligible for college credit #Teacher approval required

CONCURRENT ENROLLMENT

Buffalo High School works closely with Sheridan and Casper Colleges to offer a number of classes which BHS students can earn college credit as well as high school credit. Concurrent Enrollment classes are offered at no additional cost to our students. Listed below are some examples of classes currently offered for Concurrent Enrollment:

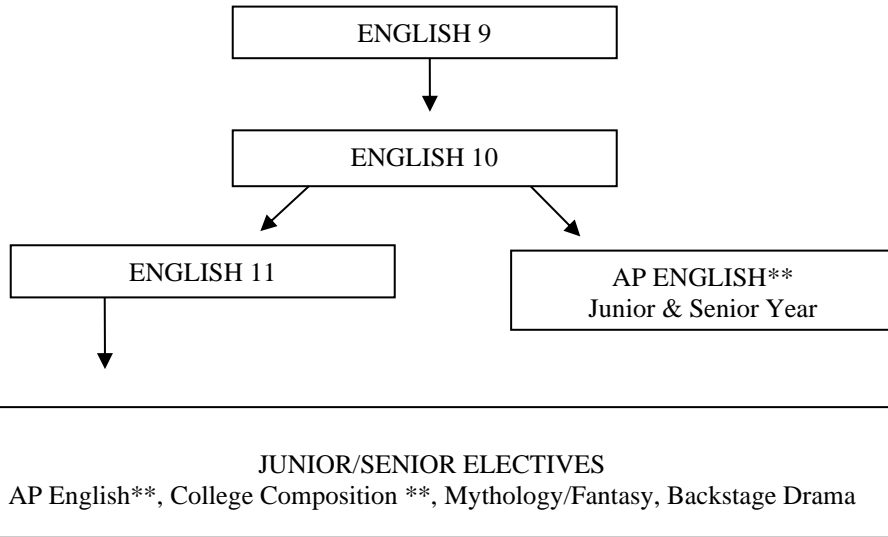
BHS SEMESTER COURSES		SHERIDAN COLLEGE COURSES		CREDITS
College Composition	0.5	ENGL 1010	English Composition	3.0
YEAR-LONG COURSES				
3D Animation	1.0	CMAP 2590	Maya 3D Modeling & Animation	3.0
Accounting I	1.0			
Accounting II	1.0			
Advanced Chemistry	1.0			
Ag Power Mechanics	1.0	DESL 1770	Diesel Skills	2.0
AP Calculus	1.0	MATH 2200	Calculus I	4.0
AP English	1.0	ENGL 1010	English I	3.0
AP Environmental Science	1.0			
American Government	1.0	POLS 1000	American & Wyoming Gov.	3.0
Animal Science	1.0	ANSC 1010	Livestock Production I	4.0
Architectural Design	1.0	ENTK 1520	Structural Drafting	3.0
Business Applications	1.0			
Construction Technology I & II	2.0	CNTK 1560	Safety & Use of Tools	2.0
		CNTK 1870	Materials & Methods	3.0
Engineering Principles	1.0	ENTK 2500	Computer Aided Drafting I	3.0
Farm Management	1.0			
Farm Shop II	1.0	WELD 1700	General Welding	4.0
Graphic Design & Advertising	1.0	INET 1611	Photoshop	3.0
Horticulture/Plant Science	1.0			
Human Biology	1.0	ZOO 1200	Intro to Human Biology	4.0
L.I.F.E. (Finance)	1.0	HMDV 1025	Intro to Online Learning	1.0
		FIN 1000	Personal Finance	3.0
Physics	1.0			
Pre-Calculus	1.0	MATH 1450	Pre-Calculus	6.0
Printmaking	1.0	ART 2090	Printmaking	3.0
Psychology	1.0			
Public Speaking	1.0	CO/M 1010	Intro to Public Speaking	3.0
Spanish III	1.0	SPAN 1010	Spanish I	4.0
Spanish IV	1.0	SPAN 1020	Spanish II	4.0
Video Game Design	1.0	INET 1800	Web Game Programming	3.0
Web Design 1	1.0	INET 1580	Web Page Authoring	3.0
Web Programming 1	1.0	INET 1650	Web Programming I	3.0
CASPER COLLEGE COURSES				
Cabinet Building	1.0	CNTK 1630	Basic Cabinet Making	2.0
Woodworking II	1.0	CNTK 1860	Woodworking Fundamentals I	4.0

Students may take concurrent enrollment courses for high school credit only, or for high school **AND** Sheridan/Casper College Credit.

CURRICULUM SEQUENCES

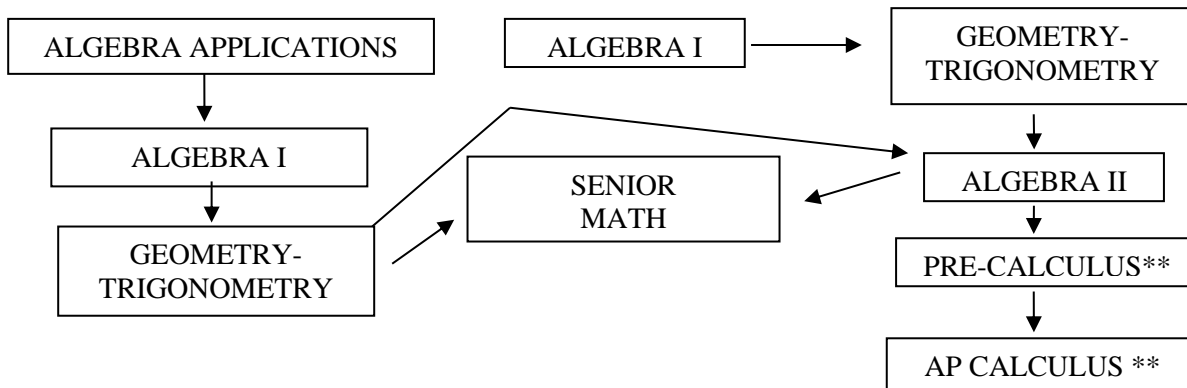
ENGLISH

** Indicates dual credit from BHS and Sheridan College



MATH

** Indicates dual credit from BHS and Sheridan College



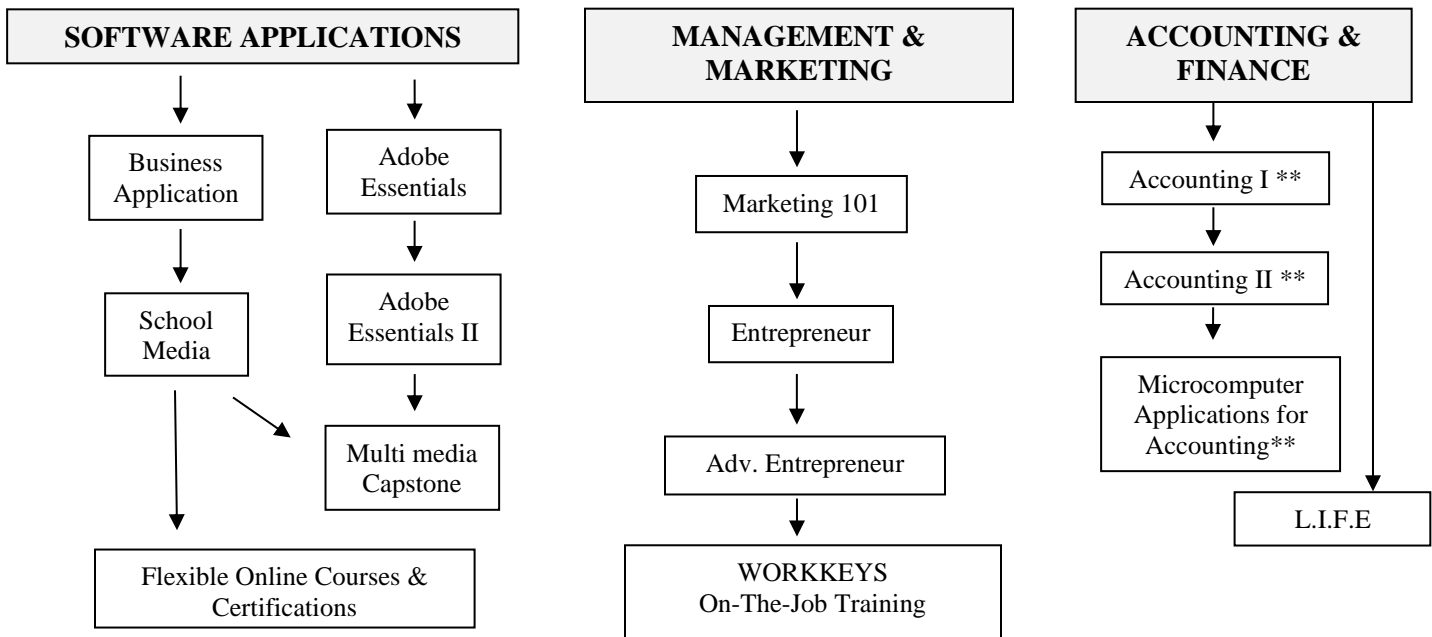
Math Sequence and Prerequisites Offered at BHS

Grade Level	Non-College Track	Proficient	Advanced	Highly Advanced
9 th	Intervention Math	Algebra I	Geo-Trig	Algebra II
10 th	Algebra I	Geo-Trig	Algebra II	Pre-Calculus & Intro to Stats
11 th	Geo-Trig	Algebra II	Pre-Calculus &	AP Calculus
12 th	Senior Math or Algebra II	Pre-Calculus	AP Calculus	Online Course

To advance in the math curriculum, students must pass the entire year of the previous course, or take a recovery course to recover that credit. Students may repeat or enroll in a lower level math course for elective credit only.

BUSINESS

** Indicates dual credit from BHS and Sheridan College

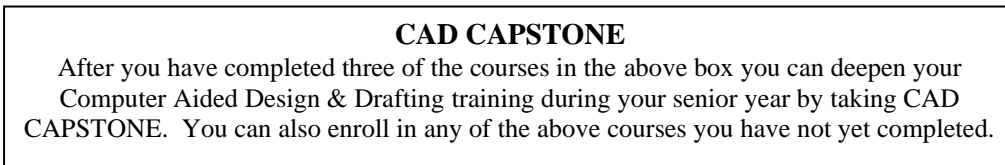
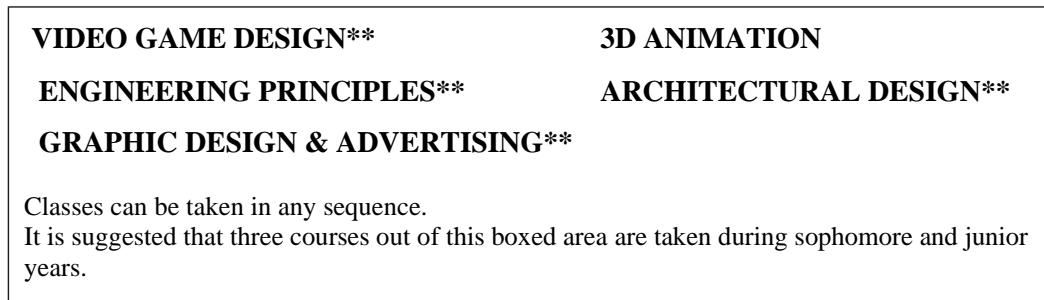


COMPUTER AIDED DRAFTING & DESIGN

** Indicates dual credit from BHS & Sheridan College

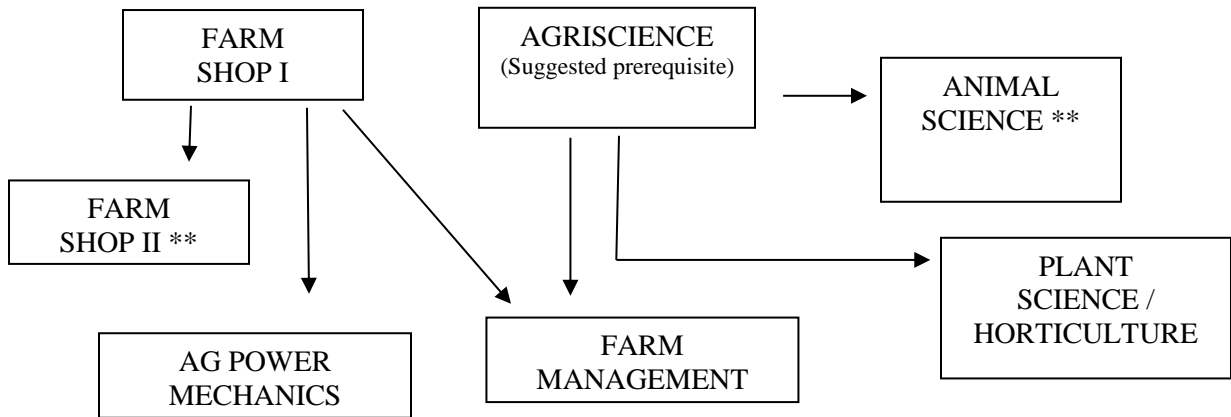
FOUNDATIONS OF DESIGN & PRODUCTION

All students start their training by taking this class



AGRICULTURE

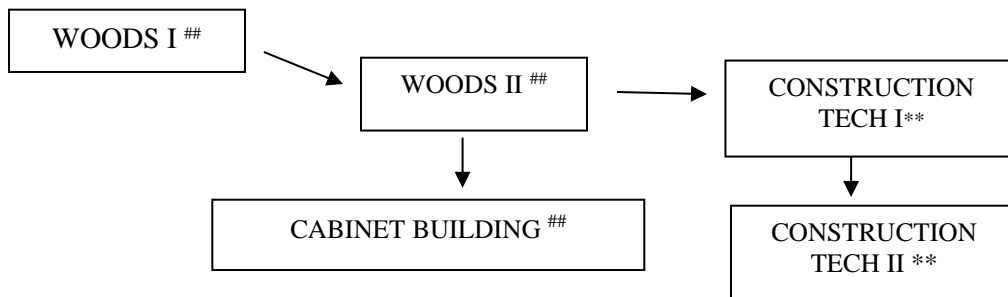
** Indicates dual credit from BHS and Sheridan College



WOOD SHOP

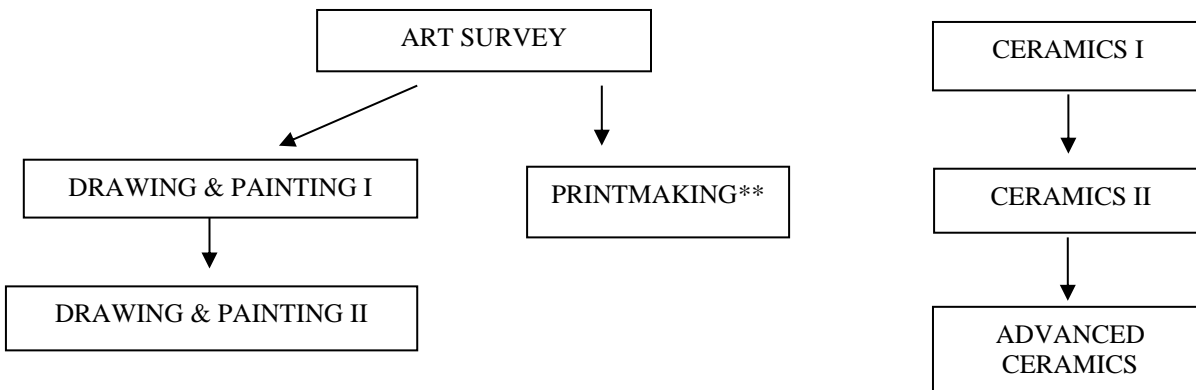
** Indicates dual credit from BHS and Sheridan College

Indicates dual credit from BHS and Casper College



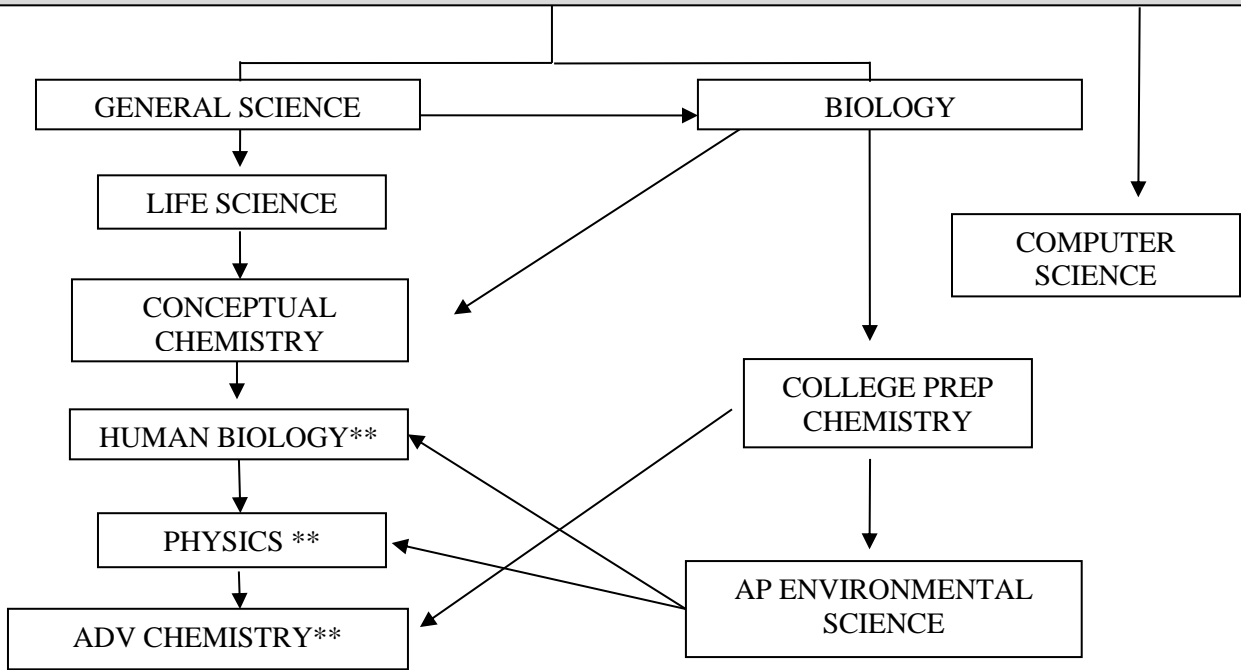
ART

** Indicates dual credit from BHS and Sheridan College



SCIENCE

** Indicates dual credit from BHS and Sheridan College

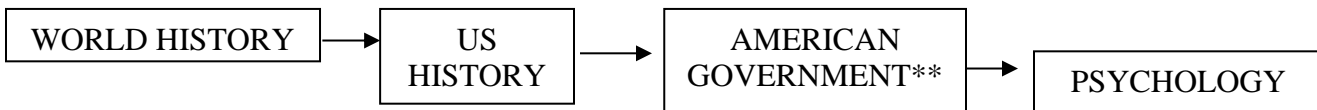


REQUIRED COURSES:

- BIOLOGY or LIFE SCIENCE
- GENERAL SCIENCE or AP ENVIRONMENTAL SCIENCE
- ELECTIVE SCIENCE COURSE
- ELECTIVE SCIENCE COURSE

SOCIAL STUDIES

** Indicates dual credit from BHS and Sheridan College



FOREIGN LANGUAGE

** Indicates dual credit from BHS and Sheridan College



Opportunities for additional language studies may be available for Juniors & Seniors

COURSE DESCRIPTIONS

ENGLISH

50500 ENGLISH 9

1 credit

This required year of Freshman English covers basic skills used throughout the student's high school years. Essay writing, research writing, understanding grammar concepts and usage, reading fiction and non-fiction short stories and novels, poetry, plays, and studying vocabulary, make up the content of the course.

50510 ENGLISH 10

1 credit

This required year of Sophomore English exposes students to the delights and dangers of close reading and careful writing. First semester, students will learn how to discover the secrets that authors hide in their poems, learn how to create their own secret-hiding memoirs, and then spend the remainder of the semester pursuing their individual passions with their Expert Projects, and interdisciplinary research project. Second semester begins with the January Jubilee Film project in which students explore a particular genre of literature and then make a film with other students in their class. Following this unit, students will explore colleges and careers in preparation for being upperclassmen. We end the year with secrets again as we follow Victor Frankenstein's quest to find the secret of life.

50079 ENGLISH 11

1 credit

What dreams do you have for yourself? If college might be one of those dreams, English 11 will set you up for post-secondary success. Throughout the course, goals and dreams are a recurring theme, beginning with a discussion of the American Dream and Jay Gatsby's lofty dreams for himself in F. Scott Fitzgerald's classic novel, *The Great Gatsby*. Before the end of the first semester, our thoughts will turn inward as you consider your personal dreams through your planning and research for the Expert Project. The second semester begins with the January Jubilee film project, which coincides with preparation for the ACT exam, which all Wyoming juniors take during their junior year (It's a good way to measure if you're on your way to college success!). You will finish your year by considering what you're doing to make your dreams come true through Paulo Coelho's classic allegory, *The Alchemist*.

50567 MYTHOLOGY/FANTASY (Grades 11-12)

.5 credit

Journey through ancient mythologies and explore new quests- and in the process, learn a little bit about our own world. This literature-based class begins with Greek and Roman roots, and then examines myth in modern films and texts, mythology's role in fantasy lit, and mythology's function in world cultures. This is a semester long course.

89933 FILM STUDIES (Grades 11-12)

.5 credit

Ever wonder what is the magic behind the movies you love? This course examines the medium of film as an art form, and involves analyses of directing, acting, cinematography, as well as accompanying literature and historical perspective. Students should prepare to write extensively and consider the ways in which movies have become so central to our popular culture.

60020 BACKSTAGE DRAMA (Grades 11-12)

.5 credit

For actors, writers, or backstage folks. One of the oldest art forms known to man, actors play out in front of an audience the joys and trials of human life. Some of the greatest writers in history have been playwrights, and students in this course may choose to follow in their footsteps. Students in this course may choose to explore the hands-on activities involved in theater such as building sets, creating props, designing scenes, planning and constructing costumes, creating sound effects, and studying careers in theater and film, etc. Students may opt to take the course for college credit as well, fulfilling the requirements for NWCCD Theater 2030 (Introduction to Playwriting).

50542 ADVANCED PLACEMENT ENGLISH (Grades 11 & 12)

1-2 credits

Course registration requires teacher recommendation. (Must score an 18 or above on English portion of ACT exam; or score a 75 on both the Reading and Writing tests of the English Placement Exam.)

AP English is a nationally recognized program that examines both American and world literature as well as composition over a two-year sequence. Juniors and Seniors who are college-bound and committed to excellence should take this course their junior and senior years. AP students will participate in the Expert Project and the January Jubilee film project. This course will fulfill all of the expectations of Junior English as well as College Composition. Students will receive Sheridan College credit for English 1010 (College Composition) if they meet the admission requirements and successfully complete this course.

50562 COLLEGE COMPOSITION (Grade 12)

.5 credit

Sheridan College-ENGL 1010: 3 credits (Must score 18 or above on English portion of ACT exam; or an Accuplacer Reading score of 85+)

This semester long class is designed for seniors who want to challenge and improve their writing skills. Students will learn college-level writing and revision techniques, write a variety of expository and persuasive essays, and read and critique professional essays.

MATHEMATICS

50094 INTERVENTION MATH (Grade 9)

1 credit

Elective Credit. Non-Hathaway. *Course registration is done strictly by a math teacher. Students will not be allowed to enroll in this course during registration.* This course is intended to prepare 9th grade students for Algebra I. This class is only for students who are absolutely not ready for Algebra I.

51142/51005 GEOMETRY IN CONSTRUCTION (Grades 9 – 12)

2 credits

This is a 2 credit course spanning two semesters. Students successfully completing this course for the year will earn one math credit and one elective credit. This is a block class that will be team taught with the Building Trades instructor and the Math Instructor. Geometry in Construction is recommended for students interested in pre-engineering, architecture, construction management, interior design, landscape architecture, construction trades, and surveying. No previous construction experience is needed. Students will learn machine and tool use and safety, problem solving, and drawing interpretation. Throughout the course students will be exposed to practical skills in building and carpentry trades by constructing various projects using wood and other building materials. While working on those projects, students will be learning the interdependence between algebra and geometry along with a core set of geometry facts involving area, perimeter, volume, transformations, congruence, Pythagorean theorem, similar figures, trigonometry, quadrilateral properties, circle properties, logic, and functions.

51120 ALGEBRA I (Grades 9 – 12)

1 credit

Algebra I is a required prerequisite for Geometry and Algebra II. The purpose of Algebra I is to introduce students to the world of Algebra. This is the first course in the college preparatory sequence.

51140 GEOMETRY/TRIGONOMETRY (Grades 9 – 12)

1 credit

Prerequisite: Algebra I or course equivalent. Algebraic skills, logical organized reasoning, and understanding of the relationship of geometry with science and vocational courses are combined in this course. This gives a sound background for the advanced math courses. Writing trigonometric functions and solving identities will be covered. Solving triangles and circular functions will also be a part of this course.

51130 ALGEBRA II (Grades 10 – 12)

1 credit

Prerequisite: Algebra I & GeoTrig. Algebra II is essential in mathematics, science, engineering, statistics, electronics and other related fields. A strong knowledge of algebra is required for any advanced math course.

51168 SENIOR MATH-COLLEGE PREP (Grade 12)

1 credit

Prerequisite: Successful completion of Algebra I, Geo-Trig., and Algebra II. **Sheridan College-MATH-1000 Problem Solving-6 credits (Students must have an ACT Math score of 21 or higher OR an Accuplacer placement exam score of Arithmetic 260-300 or Advanced Algebraic Functions (AAF) 200-239. This course may be used for the**

quantitative reasoning requirement at UW). Senior Math College Preparation focuses on methods, processes, and strategies used to solve mathematical problems in a wide variety of contexts. It demonstrates the uses and structure of mathematics while developing diverse ways to approach both mathematical and non-mathematical problems. There is an emphasis placed on George Polya's four-step procedure for problem-solving. Specific topics to be covered are number sequences and patterns, geometry and unit measurements, consumer math, counting principles, and probability. Other optional areas that may be covered could include algebraic modeling, numeration systems, set theory, or descriptive statistics. This course is equivalent to and will prepare students for college level liberal studies mathematics coursework. This is NOT a remedial mathematics course.

51167 SENIOR MATH-CONSUMER (Grade 12)

1 credit

Prerequisite: Successful completion of 2 high school credited mathematics courses. Senior Math-Consumer Mathematics will reinforce mathematical skills required for financial literacy and apply these skills to real-world applications: budgeting, banking services, credit, taxes, insurance, automobile loans, home mortgages, and investments. Financial vocabulary, understanding of financial products, financial research, and financial computations will be explored in detail.

51160 PRE-CALCULUS (Grades 11 – 12)

1 credit

Prerequisite: Geo-Trig & Algebra II **Sheridan College-MATH 1450 Pre-Calculus Algebra & Trigonometry-6 credits (Must score a 23 or above on the Math portion of the ACT exam; and/or achieve an Elementary Algebra Accuplacer score of 72+ or College Level Math Accuplacer score of 0+)** This course gives a solid foundation in algebra and trigonometry and enables students to develop problem-solving skills.

51173 AP CALCULUS (Grade 12)

1 credit

Course registration requires teacher recommendation. Prerequisite: Pre-calculus. **Sheridan College-MATH 2200-Calculus I-6 credits (Must pass MATH 1405 Pre-Calculus Trigonometry with a grade of "C" or better OR MATH 1450 Pre-Calculus Algebra & Trigonometry with a grade of "C" or better OR have an ACT score of 27. This course may be used for the quantitative reasoning requirement at UW).** A 5th year math course designed for those college-bound students who plan on having mathematics as a major part of their college program (i.e.: engineering, medicine, business, physics, etc.). This will be taught as an AP class, with the opportunity for each student to take the AP Calculus AB exam in the spring. This course covers topics including plane analytic geometry, differentiation, applications of the derivative, differential equations, limits, and the basic integrals and their applications.

SCIENCE

51318 AP BIOLOGY (Grade 12)

1 credit

Prerequisite: Completion of Biology, College Prep Chemistry, and AP Environmental Science or Human Biology. **Sheridan College BIO 1010 - 4 college credits** This course is college level Biology and is intended for students interested in pursuing Biology related careers. Coursework and labs are done independently and assessment will be based on test and lab performance.

51336 AP ENVIRONMENTAL SCIENCE (Grades 11 & 12)

1 credit

Prerequisite: Must have passed Biology and College Prep Chemistry with a B or better. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them.

51310 BIOLOGY (9 – 12)

1 credit

Students will examine all levels of living things. Topics covered include: cells, genetics, evolution, ecology, and classification of living things. Lab activities will focus on reinforcement of lecture topics. Concepts are explored at a deeper level than in Life Science, in order to prepare students for college.

51330 COLLEGE PREP CHEMISTRY (Grade 12)

1 credit

Prerequisite: Must have passed Algebra with a C or above. Students will explore the composition of matter from atoms to compounds and mixtures, the function and organization of the periodic table, as well as the naming and formulae of compounds. Students will engage in lab activities to become familiar with chemical reactions, and use mathematics to understand the interactions of matter.

51341 CONCEPTUAL CHEMISTRY (Grades 10-12)

1 credit

In this course, students will learn the basic concepts of chemistry and apply that information to everyday situations and problem solving, concentrating on scientific process. Classes will be conducted in a project and lab based format that allows students to explore the standards of chemistry. Students will use many resources to explore the ideas in chemistry, and the relationship it holds in connections to their society and the use of various technology. Lab activities will be used to reinforce concepts without an emphasis on mathematics or college preparation.

51317 INVESTIGATIVE SCIENCE (Grades 9 -12)

1 credit

This project-based course focuses on the integration of science, technology, engineering, and mathematics (STEM) to investigate and solve real-world problems. Students will engage in critical thinking, problem-solving, and creativity to research, design, and evaluate solutions for open-ended problems that we face in the local and global community. Students will create devices, simulations, and scientific experiments that require the application of engineering design skills as well as math, science, and technological knowledge.

51303 GENERAL SCIENCE (Grade 9)

1 credit

In this course, students will develop an understanding of the basic scientific principles of chemistry, physics, earth science and space science. Students will engage in lab activities to reinforce and understand concepts in the area of science. This course will set the groundwork for all other science classes at BHS.

51359 HUMAN BIOLOGY (Grades 11-12)

1 credit

Prerequisite: Above average work in Biology or consent of instructor. Sheridan College ZOO 1200– 4 credits

In this course, students will explore various topics in Human Biology including Anatomy, Physiology, Genetics, Biochemistry, and Ecology. This class will include lecture, field trips, student research and lab activities. Course focuses around preparation for dissections (dissection participation required).

51320 LIFE SCIENCE (Grades 10-12)

1 credit

Life Science is course that emphasizes biology through a more familiar aspects approach. Laboratory work and activities are an integral part of this course. These activities are designed to reinforce subject content. Topics covered include lab safety, measurements, characteristics of living things, cells, heredity, evolution, and classification the first semester. The second semester will stress larger scale biology; such as simple organisms; from bacteria and viruses to complex organisms; such as fish, amphibians, reptiles, birds, and mammals. From there we will study ecology and finally human body systems. Also, we will discuss selected topics pertaining to the current changes that are occurring throughout the world of biology.

51350 PHYSICS (Grades 11-12)

1 credit

Prerequisite: Completion of Chemistry and Trigonometry with at least a B or consent of instructor. In this course, students will explore the relationship between matter and energy using mathematics to explain and predict outcomes. Lab activities, lectures, written materials and internet resources are used to explore and reinforce concepts.

51316 INNOVATIONS (Grades 9-12)

.5 credit

The world we live in today requires people to take on more challenges. Problem-solving skills, creativity, collaboration, the ability to innovate, iterate, and design solutions for problems that don't even exist yet. In this class, students design and execute their own passion-driven projects to solve world issues and improve humanity's place in it. This is an elective course.

SOCIAL STUDIES

59965 AMERICAN GOVERNMENT (Grades 11 -12)**1 credit**

In this required class, students will study the foundations of government, economic systems, political parties, the election process, the legislative, executive and judicial branches of government, the United States and Wyoming Constitutions, and the components of citizenship.

51557 AMERICAN GOVERNMENT-SC (Grades 11 -12)**1 credit**

Prerequisite: Completion of, or concurrent enrollment in, ENGL 1010 [College Comp.], or instructor consent. Sheridan College-POLS 1000 American & WY Government-3 credits

This required course examines the ideas and concepts behind the growth and development of the governments of the U.S. and Wyoming and the political processes associated with them. Students will complete comparative analyses of economic systems, as well as in-depth studies of political parties, the election process, the legislative, executive, and judicial branches of government, and the components of citizenship. The course fulfills the statutory requirements for instruction in the provisions and principles of the state and national constitutions.

51580 PSYCHOLOGY (Grade 12)**1 credit**

Must score an 18 or above on the English portion of the ACT exam; or an Accuplacer Reading score of 85+ **Sheridan College-PSYC 1000 General Psychology - 4 credits.** This course is intended for students who wish to learn the basics of the discipline of psychology as it is approached scientifically. It offers a contemporary view of the human organism through the study of topics concerned with biological and environmental influences on growth and development, motivation, personality development, behavior disorders, emotion and adjustment, learning and thinking, perception, states of consciousness, individual differences, and social adjustments.

51563 U.S. HISTORY (Grade 10)**1 credit**

This is a yearlong course that meets the BHS requirement for the sophomore year. The areas covered in the fall semester are: the United States during WWI, the causes and effects of the Great Depression, and the United States during WWII. The areas covered in the spring semester are: The Cold War Era, The Civil Rights Movements of the 1960's and 1970's, the Vietnam Era, and the end of the 20th century to the present. This course will focus on the United States' changes throughout the decades and analyze how it relates to modern society.

51520 WORLD HISTORY (Grade 9)**1 credit**

The fall semester of this course will focus on the development of human culture from the foundations of history in prehistoric times through the Ancient River Civilizations and the Greek and Roman empires. The spring semester will focus on the history of civilizations in the Americas, Africa and Europe, focusing on the time periods between the Middle Ages through the Age of Enlightenment. The emphasis will focus on Western Europe and the world they influenced the most. The study will end with questions of man's future.

51524 BIG HISTORY (Grades 9-12)**.5 credit**

This is a semester long elective course. Big History explores different scales of time and space to view human history from new angles. What do we know about our past? What don't we know? And how can all of this help shape our ideas of what the future may hold?

51562 POP CULTURE (Grades 9-12)**.5 credit**

This is a semester long elective course. This class will examine historical topics that you choose to focus on. For this class you will research the historical topics that interest you. In addition, this class will look at history through popular culture by analyzing movies, music, and art and how history is represented through those.

PHYSICAL EDUCATION AND HEALTH**50804 PE 9 AND HEALTH (Grade 9)****1 credit**

This is a required course for all freshmen. The PE curriculum is centered on team-oriented sports through fitness and skill-filled experiences. The Health portion addresses the following topics: self-concept, personal mission statement,

relationships, refusal skills, and cultural influences on major teen topics. This segment of the class will provide students with information, knowledge, and experiences to make them a health literate person.

50803 PE 10 AND HEALTH (Grade 10)

1 credit

This a required course for all sophomores. The curriculum is geared toward health related fitness, life and leisure activities, with First Aid and CPR certification. The Health portion addresses the following topics: body fat and nutrition, teen pregnancy and related topics, CPR and First Aid, and personal goal development and implementation.

50823 STRENGTH & CONDITIONING (Grades 11 – 12)

1 credit

Prerequisite: Must have successfully passed 2 years of PE. This course will emphasize the building of your physical conditioning and the improvement of the cardiovascular system through development of strength, agility, endurance, flexibility and cardiovascular fitness. Students will be trained to perform successfully at multiple, diverse and randomized physical challenges.

FOREIGN LANGUAGE

50600 SPANISH I - Beginning Language & Culture (Grade 9 – 12)

1 credit

Spanish I students develop the ability to communicate in Spanish, at a novice language level, by listening, speaking, reading, and writing. Students develop oral and written proficiency by asking and answering personal questions, reading authentic literature related to course vocabulary, writing simple sentences for presentations, creating and presenting dialogues, and using technology. Cultural education includes learning about holidays, traditions, and customs of Spanish-speaking countries, as well as comparing and contrasting the American culture to the cultures of Spanish-speaking countries. Spanish I is a one year course.

50605 SPANISH II - Emerging Language & Culture (Grade 10 – 12)

1 credit

Prerequisite: Spanish I. Spanish II students develop communication skills, listening, speaking, reading, and writing, at the novice-high to low intermediate language level by conversing about everyday situations, reading authentic literature, composing relevant written documents, and using technology. Cultural education includes comparing and contrasting the American culture to Spanish-speaking cultures in relation to everyday life, holidays, and traditions; as well as the study of tolerance, diversity, and immigration. This class is conducted approximately 75% in Spanish. Spanish II is a one year course.

50606 SPANISH III - Intermediate Language & Culture (Grade 11 – 12)

1 credit

Prerequisite: Spanish I and II. Sheridan College SPAN 1010 – First Year Spanish I – 4 credits

Spanish III students will converse, read, and write Spanish at the intermediate level. Students practice listening, speaking, reading and writing regularly. The class is conducted in Spanish, except during grammar discussions. Students study advanced grammar and learn vocabulary needed to communicate with a variety of audiences through authentic literature and multimedia. Students study current events in Spanish-speaking countries, create oral and written presentations, and participate in group and individual discussions. Spanish III & Spanish IV are on a rotating 4-semester schedule: World Geography, Literary & Art, Music, & Film. Students learn about the selected topic or theme of each semester in depth as they increase and improve their Spanish proficiency. Spanish III is a one year course.

50607 SPANISH IV - Intermediate-Advanced Language & Culture (Grade 12)

1 credit

Prerequisite: Spanish I, II and III. Sheridan College SPAN 1020 – First Year Spanish II – 4 credits

Spanish IV students will converse, read, and write Spanish at a high-intermediate to advanced level. The class is conducted in Spanish, except during grammar discussions. Students study advanced grammar and learn vocabulary needed to communicate with a variety of audiences through advanced authentic literature, multimedia, and technology. Students compare cultures and develop connections between language, community, and career. Spanish III & Spanish IV are on a rotating 4-semester schedule: World Geography, Literary & Art, Music, & Film. Students learn about the selected topic or theme of each semester in depth as they increase and improve their Spanish proficiency. Spanish IV is a one year course.

FINE ARTS - ART

50200 ART SURVEY (Grades 9-12)

1 credit

This class is a prerequisite for Drawing and Painting and Printmaking. Art Survey is a foundation level class that offers the student experience in drawing, painting, printmaking and occasionally, 3D art processes. Through exploration of various media, styles and techniques students will gain insight on how to successfully apply the elements of art and design principles toward the creation of their artwork. Contemporary and historical art movements and artists will also be explored in this course. This course can be taken as a semester course or yearlong, however it is structured as a yearlong course.

50217 / 50233 CERAMICS I/II (Grades 9 – 12)

.5 credit

Prioritized by grade level: upperclassmen get preference.

Ceramics I will focus on learning the basic skills required to create artwork using clay. Students will work in the processes of hand building, while working toward producing wheel thrown ceramics in this class. There will be an emphasis on learning historical and contemporary artists, as well as gaining an understanding of the tools and processes needed to make ceramic work. This is a semester class, but can be taken for the entire year. Ceramics II will involve a more in depth study of ceramics in which the student is encouraged to work more independently, at a higher level of production. These courses can be taken as a semester course or yearlong.

50240 ADVANCED CERAMICS (Grades 11 – 12)

.5 credit

Prerequisite: Ceramics I & Ceramics II Advanced Ceramics is an upper level ceramics course that allows students to approach clay with a more individualized plan. Students will apply the knowledge and skills acquired in Ceramics I and II to independent work within the ceramics studio. Students are required to come up with their own projects to complete. Instruction will also be more individual and based on the projects chosen by the student. Students have the potential to work with hand building, wheel throwing, varied glazing and firing techniques.

50205 / 50210 DRAWING & PAINTING I & II (Grades 10 – 12)

1 credit

Prerequisite: Art Survey or instructor's permission. Drawing & Painting will explore a variety of media, including graphite, charcoal, pastel, pen, scratchboard, acrylic, watercolor, ink, oils, airbrush and mixed media. Historical and contemporary processes and artists will be investigated. Image and idea development through creative thinking and problem solving will be emphasized. Students will be encouraged to choose a specific drawing or painting media to further develop and explore as they transition into Drawing & Painting II, which will involve a more independent course of study, allowing the student greater choice and more time to work on individual artwork. These courses can be taken as a semester course or yearlong.

50218 PRINTMAKING (Grades 10 – 12)

1 credit

Prerequisite: Art Survey or Instructor's permission. **Sheridan College – ART 2090 Printmaking -3 credits (students must take the course yearlong to receive college credit)** Printmaking offers the opportunity for students to explore both traditional and non-traditional printmaking processes such as Relief, Etching, Engraving, Monotype, Monoprint, Screen Print and Mixed Media. Historical, as well as contemporary printmaking techniques and Artists will be introduced and explored. Students will learn to identify numerous paper types and applications, how to manipulate a wide range of tools and various kinds of ink and will print images both by hand and with the aid of a printing press. This is a yearlong, concurrent enrollment course, offering 3 college Fine Arts credits. This course may be taken as a semester course, but is structured as a yearlong class in order to best benefit the student printmaker, while encouraging strong, consistent and exhibition worthy prints.

FINE ARTS - MUSIC

51256 BALLADIERS (Grades 9 – 12)

1 credit

Prerequisite: Audition only/must have instructor's approval. Membership in this vocal group is by audition only and is open to all students, male or female, in the student body. The group performs at numerous local functions and competes

with other jazz/show choirs from around the state and region. These singers will become experts in the jazz and pop styles of music. Members of this group are strongly encouraged to participate in Men's Choir or Treble Choir (Una Voce).

50229 BAND - WINDS (Grades 9 – 12)

1 credit

The BHS Concert Band is center of the instrumental music program. Wind players must be a member of this class to participate in The Bison Marching Band, Bison Pep Band, Bison Concert Band, and The Jazz Ensemble. This class is open to anyone who would like to work hard, play hard, and be a part of something bigger than yourself. Other opportunities to perform are available through this class as well. They include Festival of Winds Band, District Clinic Bands, as well as All-State and All-Northwest Band and Orchestra.

51253 JAZZ ENSEMBLE (Grades 9 – 12)

1 credit

Prerequisite: Audition only/must have instructor approval. By audition only, this class is open to anyone interested in instrumental jazz music. The group performs at numerous local functions and performs with other jazz ensembles from around the state and region at jazz festivals throughout the year. Membership in the regular band class is required.

51259 MEN'S CHOIR (Grades 9 – 12)

1 credit

Membership to this ensemble is open to all male students who would like to sing. Men's choir will sing a large variety of musical styles including barbershop, pop, folk, multicultural, jazz, sacred, and show songs. Participants will perform in a number of concerts and participate in competitive festivals across the state.

51252 PERCUSSION ENSEMBLE (Grades 9 – 12)

1 credit

Prerequisite: Audition only/must have instructor approval. The percussion ensemble is the sister to the Band – Wind Ensemble class. These two classes combined make up the Bison Band Program. All expectations and performance opportunities are shared as a Band. Participation in concert band, pep band, and marching band will be expected with enrolment in this class.

51257 TREBLE CHOIR (UNA VOCE) (Grades 9 – 12)

1 credit

Prerequisite: Open to female voices only. All ladies who like to sing are welcome to join the Treble Choir. Ladies in the choir will sing a wide variety of repertoire including stage/show pieces, secular, sacred, multicultural, patriotic, and jazz tunes. Members of the group will perform in concerts and special events around the community. They will also participate in state competitions and festivals.

CAREER AND TECHNICAL EDUCATION

50300 ACCOUNTING I (Grades 9 – 12)

1 credit

Accounting is the language of all businesses. The course is recommended for all students. Most people end up in the business world and accounting will be a major part of that world. Even professional people like doctors, engineers, and lawyers will need to understand accounting. This fundamental yearlong course is designed to provide students with the skills and knowledge necessary to record financial information in the operation of a business. Business simulations will give students a "hands-on" experience with accounting and the opportunity to be marketable for employment. Personal Finance/Financial Literacy Concepts will also be incorporated. Skills learned in this class will be used well beyond high school both personally and professionally.

52509 ADOBE ESSENTIALS (Grades 9 – 12)

.5 credit

This course is designed to be year-long, but a student can elect to participate in a single semester. Students will learn the fundamentals of graphic design and production through the use of Adobe Creative Suite. Adobe InDesign, Illustrator, Photoshop, and Premiere will be used to help students learn to apply the applications skills to printed and digital presentation media.

51197 ADVANCED ENTREPRENEURSHIP (Grades 10 – 12)

.5 credit

Entrepreneurship is a passion. As a continuation of Entrepreneurship, this course will acquaint students with the knowledge and skills necessary to own and operate their own business. Some topics covered will be economics,

marketing, human relations, law, legal rights and responsibilities of ownership, business and financial planning, and how to finance and keep track of your money. A hands-on approach will be used to further learning. On block days, you will develop a partnership with a business and spend time mentoring with a local business person.

50335 BUSINESS APPLICATIONS (Grades 9 – 12)

1 credit

Sheridan College-CMAP 1680 Microcomputer Apps - 3 credits This course is yearlong and focuses on the Microsoft Office package. (Word, Excel, Access, PowerPoint, and Publisher) The skills taught are prerequisite for many computer and business degrees, certification programs, and for enrollment in upper-level computer courses. It is accepted for transfer credit at most four-year schools.

????? MARKETING 101 (Grades 9 – 12)

.5 credit

Do you want to be creative and have fun while learning business? If so, Marketing 101 is for you! This course will give students a foundation in advertising, selling, promotion, pricing, marketing-information management, market planning, marketing management, marketing research, merchandising, professional sales, business management, and careers in marketing. Students will be given an opportunity to participate in hands-on projects in the classroom, at BHS, and in the community. Some out of class time might be necessary for the successful completion of the course.

51193 ENTREPRENEURSHIP (Grades 9 – 12)

.5 credit

Are entrepreneurs born or made? Do I want to work for someone else or myself? Why should I do this? In this class, you will answer these questions along with learning the principles of starting, managing, financing, and marketing your own small business. On block days, every attempt will be made to learn from our local businesses and entrepreneurs by either visiting them or having them come to our classroom.

50796 L.I.F.E. (LEARNING INDEPENDENCE FOR EVERY DAY) (Grades 12)

1 credit

Sheridan College HMDV 1025*50 Intro to Online Learning 1 credit and Sheridan College FIN 1000*50 Personal Finance 3 credits. This course is yearlong and will focus on life after high school whether it is preparing for college or seeking employment. Time will be spent using technology to prepare for the ACT, researching colleges and future occupations, filling out applications and scholarship forms, learning personal finance skills relevant to financial planning for college and in future occupations, and learning what an online learning environment looks like at the college level.

60040 MAKER'S MARKET (Grades 10 -12)

.5 credit

Prerequisite: Entrepreneur. A desire to create, a desire to make, a desire to sell, and most importantly a desire to learn. This class is designed for someone who wants to think, practice, track, and put into action their plans...whether it is a new app, a craft, or an online store, the expectation is that making and selling will occur. This is entrepreneurship in action...sign up if you want to do something in the market.

50410 ON-THE-JOB TRAINING (Grades 11 – 12)

1 credit

Prerequisite: Course requirements include WorkKeys Online Training. OJT gives students the opportunity to earn credit while working in a paid position in the community. Students must work an average of fifteen (15) hours per week and turn in paystubs at each pay period. In this work experience, students are evaluated by their employer at the 9 week benchmark and at semester. Students are released a maximum of 2 periods per day.

50418 WORKKEYS (Grades 11 – 12)

1 credit

This class provides students an opportunity to learn skills to prepare them to be college and career ready. This online program gives students Workkeys certification and may be used for the opportunity level of the Hathaway.

COMPUTER AIDED DESIGN AND DRAFTING - CADDLAB

59904 FOUNDATIONS OF DESIGN AND PRODUCTION (Grades 9 – 12)

1 credit

Class may be taken for one semester or for a full year. Different content will be covered each semester. This class is for any student that wants to explore Computer Generated Imagery (CGI), Engineering, and Architecture. Class will focus on how to use the computer as a design and prototype tool. We will also explore laser engraving, 3D scanning, and 3D

printing. Students have discovered that this course can them with projects that other classes at BHS require. (For example the expert project.) This course applies toward Hathaway requirements. This course satisfies entry requirements for anyone interested in advanced CAD classes.

60050/60060 ROBOTICS AND DRONE TECHNOLOGY – (Grades 9 – 12) 1 credit

No Prerequisite: Robotics instruction includes lab based, hands on, exercises aimed to teach students about the design, construction, maneuvering, and programming of mobile robots. The semester will end in a contest. Students will be eligible to compete for a spot in the state urban rescue robotics contest. Drone instruction includes how to fly drones, preparation for the remote pilot exam, and the use of drones for commercial purposes such as aeronautics, agriculture, inspection, search and rescue, photography, and cinematography. This course applies toward Hathaway requirements.

59966 3D ANIMATION (Grades 10 – 12) 1 credit

Offered Odd Years.

Prerequisite: Must have passed one semester of Foundations of Design and Production or a semester of any other computer class. With a focus on computer animation and its application to advertising, TV, and gaming, students will learn 3D modeling and create simulations utilizing animations, video, and sound. A number of different graphic design and animation software programs will be used. Video and sound editing technologies will also be incorporated. This course applies toward Hathaway requirements.

59952 VIDEO GAME DESIGN (Grades 10 -12) 1 credit

Offered Even Years

Sheridan College INET 1800 - Web Game Programming – 3 credits *Prerequisite:* Must have passed one semester of Foundations of Design and Production or a semester of any other computer class. This course provides an introduction to the study and development of video games. Topics include the history of video games and animation, human computer interaction, game theory, game genres, game engine architectures, and game culture. Students will learn to use software to create original games, graphics, and be able to edit sounds for the games they are developing. Students successfully completing both semesters have the opportunity to earn college credit. This course applies toward Hathaway requirements.

59954 ENGINEERING PRINCIPLES (Grades 10 – 12) 1 credit

Offered Odd Years

ENTK 2500 Computer Aided Drafting I – 3 credits *Prerequisite:* Must have passed one semester of Foundations of Design and Production or a semester of any other computer class. First semester will focus on engineering theory and principles. We will use AutoCAD and SolidWorks to create 2D and 3D drawings and supporting illustrations. Second semester projects will be of an individual nature and will focus on robotics as well as designing, building and testing an assortment of projects that solve engineering problems. Advanced prototyping (3D Printing) systems will be utilized. Students successfully completing both semesters have the opportunity to earn college credit. This course applies toward Hathaway requirements.

59955 ARCHITECTURAL DESIGN (Grades 10 – 12) 1 credit

Offered Even Years

Sheridan College ENTK 1710 Architectural Drafting - 3 credits *Prerequisite:* Must have passed one semester of Foundations of Design and Production or a semester of any other computer class. Students will learn the basics of 2D and 3D drawings and structural design using AutoCAD and Revit Software. Students will learn the techniques to develop a complete set of house plans. We will explore several different types of home construction as well as a variety of floor plans. Students successfully completing both semesters have the opportunity to earn college credit. This course applies toward Hathaway requirements.

59953 GRAPHIC DESIGN & ADVERTISING (Grades 10 – 12) 1 credit

Prerequisite: Must have passed one semester of Foundations of Design and Production or a semester of any other computer class. Students will explore the concepts behind graphic design as an art form through exploration of computer-generated images and promotional materials. Projects will allow for individual artistic expression and focus on elements

of the design processes, color theory, illustration, layout techniques, visualization, and professional presentation. This course applies toward Hathaway requirements.

COMPUTER SCIENCE

50312 COMPUTER SCIENCE (TEALS) (Grades 9 – 12)

.5 credit

In this class students will explore computational thinking, problem solving, programming, and computer science concepts that are applicable in whatever field a student may enter. The students will discover how modern technology works and impacts society. Volunteers will work with a certified teacher providing access to a computer science curriculum.

51630 AP COMPUTER SCIENCE A (Grades 11 -12)

1 credit

Pre-requisite: AP Computer Science Principles with a grade of C or higher. This year-long college-level curriculum emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. This year-long course involves developing the skills to write programs or part of programs to correctly solve specific problems. AP Computer Science A also emphasizes the design issues that make programs understandable, adaptable, and when appropriate, reusable. At the same time, the development of useful computer programs and classes is used as a context for introducing other important concepts in computer science, including the development and analysis of algorithms, the development and use of fundamental data structures, and the study of standard algorithms and typical applications. In addition, an understanding of the basic hardware and software components of computer systems and the responsible use of these systems are integral parts of the course.

50313 AP COMPUTER SCIENCE PRINCIPLES (Grades 11 -12)

1 credit

This year-long course introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. The course goal includes creating leaders in computer science fields and attracting and engaging those who are traditionally underrepresented with essential computing tools and multidisciplinary opportunities. The course covers many topics including the Internet, Big Data and Privacy, Programming, Algorithms and Apps. **At the end of the course, students will have the option to take the AP® Computer Science Principles (AP CSP) test. It is recommended that this be the second course following Computer Science and that students successfully pass Algebra.

WOODWORKING

51020 CABINET BUILDING (Grades 11 – 12)

1 credit

Prerequisite: Woodworking II. **Casper College – 4 credits** A level 3 woodworking course that will challenge the problem solving skills and construction techniques that go along with building advanced level projects.

51015 CONSTRUCTION TECHNOLOGY I (Grades 10 – 12)

1 credit

Sheridan College –CNTK 1560 Construction Safety & Use of Tools – 2 credits

A course designed to train students in the complete process of the building trade. Students will learn the basics of residential construction from the foundation/concrete work to the final phase of finish work. They will work with professionals in the community such as concrete pro's, plumbers, electricians, lead carpenters, roofers and cabinetmakers. Students will construct a large scale project such as a tiny house or residential home.

51016 CONSTRUCTION TECHNOLOGY II (Grades 11 – 12)

1 credit

Prerequisite: Construction Technology I. **Sheridan College –CNTK 1870 Construction Materials & Methods – 3 credits** This course is a continuation of the Construction Technology I class. Students in this class will work on a Tiny House or residential home.

51000 WOODWORKING I (Grades 9 – 12)

1 credit

Casper College – 2 credits *Project fee.* Have you found a project on Pinterest that you think is cool and want to build? This course is based on helping you construct various woodworking projects using basic woodworking skills. The student will learn how to operate various types of equipment safely.

51010 WOODWORKING II (Grades 11 – 12)

1 credit

Prerequisite Woodworking I. Project fee. **Casper College – 4 credits** This course is a continuation of Woodworking I. The projects students learn to build will be of a higher level of difficulty using various wood joinery and construction techniques.

AGRICULTURE

50100 AGRISCIENCE (Grades 9 – 12)

1 credit

This course may only be taken once. Major topics addressed are the science of living things, environment, careers, leadership, record keeping, natural resource management, integrated pest management, plant science, animal science, and food science technology. Agriculture is a science-based industry and scientific concepts will be instructed as they relate to the agricultural industry. Hands-on experiences, lectures, guest speakers, field trips, and computers will be used to study our single largest industry. Concepts learned in this course are common to many careers. It is recommended that first year agricultural students take this class in preparation for more advanced science and agricultural classes.

50140 FARM SHOP I (Grades 9 - 12)

1 credit

This course is designed for the student who wants to learn how the shop works on a ranch or farm. Skills that will be developed are: arc welding, gas welding, MIG welding, TIG welding, rural electrification, masonry, plumbing and surveying. Safety is taught on the proper use of all shop equipment. Shop behavior and correct procedures are applied in all settings. Competencies developed will be useful for the home construction projects, repair and/or further training at a technical school.

50150 FARM SHOP II (Grades 10 - 12)

1 credit

Prerequisite: Farm Shop I. **Sheridan College- 4 credits** Emphasis will be placed on project design, repair, and completion of usable products. Additional shop skills that will be taught are: tool conditioning, equipment repair, power machinery and metal fabrication. Students are required to design and build their own projects and are encouraged to have their own personal items.

50107 AGRICULTURE POWER MECHANICS (Grades 11 - 12)

1 credit

Offered Fall Semester Only

Enrollment for Sophomores, Juniors and Seniors who have taken Farm shop I. The emphasis of this semester course will be based in engine dynamics, drive train, hydraulic power, pneumatic power, and D.C Electrical power. Grading will be based on lab work as well as unit test. Students will be applying their learning through hands-on labs and project vehicles. Students will be afforded the opportunity to tour higher education programs and work places. Students wishing to pursue a degree in diesel mechanics or industrial mechanics would greatly benefit.

50110 ANIMAL SCIENCE (Grades 10 - 12)

1 credit

Offered Odd Year

Sheridan College – ANSC-1010 Livestock Production -4 credits

Topics covered will deal with useful knowledge in animal husbandry (care and management of livestock). Animal evaluation, breeding systems, diseases, genetics, reproduction, body functions, nutrition, and management are learned through instructor and guest lectures, field trips, and films. Ranch operations that employ various management practices in livestock production will be observed. Students who are interested in the proper care and management of animals and/or pursuing a career in animal science at the college level will enjoy this class. (This course rotates each year with Vet Science)

89234 VETERINARY SCIENCE (Grades 10 - 12)

1 credit

Offered Even Year

Topics covered will deal with knowledge in Vet science management and client relations, Veterinary Animal Production, General Anatomy and Disease Processes, and Clinical procedures. Clinical procedures, hospital procedures, handling and restraint procedures will be learned through instruction, field trips, observations and guest lectures. Students who are interested in animals and Veterinary medicine, and/or pursuing a career or education in Veterinary Medicine or animal science will enjoy this class. (This course rotates each year with Animal Science)

50160 FARM MANAGEMENT (Grades 10 - 12)

.5 credit

Offered Spring Semester Only

Management in agriculture employs the same principles used in all businesses. The first semester will cover management principles, record keeping, budgets, cost analyses, cash flows, balance sheets, and taxes and laws as they affect an agricultural business. The class will visit local agencies to learn what they provide to the agricultural industry and businesses in the community. Projects will be used to strengthen learning, such as, simulated purchase of a ranch or property, including all legal aspects, financing, stocking, and profitability projections; marketing problems to determine who can earn the highest profit through marketing strategies and the use of future markets. The second semester will include the use of computer programs to assist in management strategies. It is recommended that students taking this class have an understanding of general math concepts.

50108 HORTICULTURE (Grades 9 - 12)

1 credit

Offered Second Semester

Students who wish to spend time in a greenhouse and garden environment will enjoy learning plant growth, seed preparation, cutting, grafting, and gardening; with an emphasis in plant health, nutrition, and growth. The class will spend time learning vineyards, fruit production, flower production, and vegetable production. A majority of the course work will be based in the lab. Field trips will be offered to view local operations.

50115 PLANT SCIENCE (Grades 9 - 12)

1 credit

Offered First Semester

Students will develop an understanding for plant genetics, plant propagation, growing systems, and crops in the Buffalo area. The class will involve the use of the greenhouse, orchard, and field trips. Students wishing to look at a future in floriculture, horticulture or turf grass management will benefit from this course.

MISCELLANEOUS

59992 DRIVER'S EDUCATION (Grades 9 - 12)

.5 credit

Prerequisite: Students must be 15 years of age at the start of the semester, and obtain a drivers permit prior to the start of the driving portion of the class. Driving experience is STRONGLY suggested prior to starting the class. Students in this course will complete 30-50 hours of classroom instruction and 6 hours of simulation & driving time. Students will learn the Students will develop an understanding for plant genetics, plant propagation, growing systems, and crops in the Buffalo area. The class will involve the use of the greenhouse, orchard, and field trips. Students wishing to look at a future in floriculture, horticulture or turf grass management will benefit from this course.

59971 COMMERCIAL DRIVING CERTIFICATION PROGRAM (Grade 12)

1 credit

Offered Second Semester

Prerequisite: Students must be 18 years of age by April 1st and hold a current driver's license. This program is designed to give students an introductory background in the transportation industry and obtain their Commercial Driver's License. This class allows students to gain the necessary job skills and knowledge for an entry-level position in the truck driving and transportation fields. Emphasis is placed on hands-on training with the tractor and trailer. The first portion of the semester the material covered helps prepare students for the written portion of the commercial driving test, and helps them conduct a successful job search. Focus will also be given to the inspection portion of the CDL test. After the student has passed the written test (at DMV) the instructors will work on the backing and driving requirements. Time at the end of the semester will be given to test at a port of entry for the completion of the CDL pre-trip, backing and driving tests.

51657 EQUIPMENT OPERATING & LOADING (Grade 12)**1 credit**

Offered Second Semester

Prerequisite: Students must be 18 years of age by April 1st and hold a current driver's license. Heavy Equipment Operation courses enable students to safely operate the heavy equipment used for mining, construction, and utility industries. Typically, courses also include light maintenance principles and techniques.

50575 PUBLIC SPEAKING (Grades 9 – 12)**.5 or 1 credit****Sheridan College CO/M 2010 – Intro to Public Speaking – 3 credits**

This one or two semester course provides training in knowledge and practical skills needed for effective public speaking and public performance. This course is designed to prepare students for college classes and careers that require research, critical thinking, and speaking skills. It equips students to engage in a variety of public speaking and performance situations with authority, confidence, and proficiency. Students can take one or both semesters as different material is covered each term. Students successfully completing both College Composition and both semesters of this class have the opportunity to earn college credit. This course applies toward Hathaway requirements. This class is offered for high school Career and Technical Education credit. Students enrolled in public speaking will have the opportunity to participate in Speech and Debate team activities as part of the course.

59964 CAD CAPSTONE (Grade 12)**1 credit**

Prerequisite: Must have successfully completed 3 credits in the area of study and have instructor permission. The core idea behind the Capstone class is design and creation. Students will take the sum of their course training and experiences and apply this to a dynamically creative process. The student will work to make an original and thoughtful contribution to their own field of interest. Emphasis is put on the process of designing and developing the Capstone project as well as on the creation and promotion of the final product that showcases their abilities at the highest levels.

59990 OFFICE AIDE (Grades 11 – 12)**.25 credit**

The Office Aide course is designed to offer students the experience of learning basic skills as they assist in the completion of various office operations. At times, the office aide will be asked to help plan and execute school spirit & recognition events. Enrollment as an Office Aide is a privilege. The office aide is expected to dress appropriately for the school setting in accordance with school guidelines, understand and comply with confidentiality protocol and in no way abuse the privileges of the office aide position. In addition, the course is graded as Pass/Fail and grading will be based upon punctuality, attitude and effort.

59910 TEACHER AIDE (Grades 11 – 12)**.25 credit**

The teacher aide program provides an opportunity for each student to gain a realistic experience within the teaching profession. Teacher aides must accept the responsibility of being an adult role model in a classroom and will be held to the same standards of a hired aide. These responsibilities and standards include attendance, dress, behavior, language, maturity, work ethic, confidentiality, dependability, etc. Student aide responsibilities will vary depending on the age level and supervising teacher.

59926 SOCIAL MEDIA/YEARBOOK (Grades 9 - 12)**.5 credit**

Social media is not just for following friends and celebrities. It is now more important than ever for businesses and consumers to understand and positively maximize their social media presence. This social media course will train you to understand the differences in social media platforms, to utilize those platforms and boost your skills to become an accomplished social media marketer. Students in the course will assist with social media content for BHS and create the school yearbook. Some out of class time will be necessary for the successful completion of the course.

60100 CERTIFIED NURSING ASSISTANT (Grade 12)**1 credit**

Offered Second Semester

Prerequisite: must reach the age of 18 prior to the end date of the course. This semester long course is designed to provide the student with knowledge and skills necessary to perform basic care services for a patient. It prepares the student to function in the role of nursing assistant under the supervision of a registered nurse. The class will explore the

role of the nursing assistant, learn about medical terminology, learn important hands-on-skills, and how to care for people with medical conditions. Completion of course provides eligibility to take a written examination for State certification as a certified nursing assistant.

60200 CULINARY ARTS 1 (Grades 11 - 12)

1 credit

The ProStart program is a pioneering school-to-career program that introduces juniors and seniors to careers in food service and teaches the basic skills and knowledge needed for success in the foodservice industry.

The first year content consists of food safety and sanitation, food service equipment, food preparation, catering, food service business, the tourism and lodging industry, and hospitality. Students will have the opportunity to obtain a Wyoming State Food Handler's Permit Certification.

SPECIAL SERVICES

51940 ADAPTED PHYSICAL EDUCATION (Grades 9 - 12)

1 credit

(Class meets at YMCA)

Only by referral. Individualized instruction is given to each student based upon specific learning strengths and weaknesses. Specific course is then designed or modified to assist each student in attaining basic skills to meet graduation requirements.

51970 LEARNING STRATEGIES (Grades 9 - 12)

1 credit

Only by referral. This course is designed to teach students "how to learn" by providing them with learning strategies that help them to generalize the use of learning strategies in their classes and through a variety of situations. The course helps students to build on their functional independence. Students will be instructed in strategies that are designed to provide students with the tools for acquiring, managing, and/or expressing the content of the general education classes.

51990 WORLD OF WORK (Grades 11 - 12)

1 credit

Only by referral. This course combines classroom instruction with supervised work experience at an approved training location (both on and off campus). Students will explore career interest, develop a resume, complete an application, cover job seeking skills and work related habits. They will be evaluated to help them improve their skills. **Employment is a requirement.**

????? RESOURCE ENGLISH (Grades 9 - 12)

1 credit

Resource English, a specially designed multi-graded course for students with Individual Education Plans. This course focuses on remediated grade level content to fit the academic level of students with learning challenges. The overall objective of this class is to ready these students for inclusion into the regular English classroom. Students are placed only by IEP team decision.

?????? BRIDGES ENGLISH (Grade- 12)

1 credit

Only by referral or recommendation of English teacher. Bridges is a co-taught Senior English class that is designed for students going straight into the workforce after graduation. The focus of this class is improving vocational writing and presentation skills that are needed for successful employment outcomes. Students are required to create an employment portfolio that is individualized to their own post-secondary goals and participate in community job shadowing. This course is Hathaway qualified.

????? RESOURCE MATH (Grades 9 - 12)

1 credit

Resource Math is a specially designed multi-graded course for students with Individual Education Plans. This course focuses on remediated grade level content to fit the academic level of students with learning challenges. The overall objective of this class is to ready these students for inclusion into the regular Math classroom. Students are placed only by IEP team decision.

EXTRA CURRICULAR ACTIVITIES

SOMETHING FOR EVERYONE! Buffalo High School offers a wide variety of extra-curricular activities for our students. In addition to sports, we have a number of clubs and organizations that our students are actively involved with. BHS students have competed at the National level in band, choir, FFA, FBLA, Skills USA, and Speech & Debate competitions. So no matter what you like, BHS truly has **SOMETHING FOR EVERYONE!**