Sheridan High School

2022-2023

Course Description Booklet

SHS Mission: "Together we foster a collaborative community that ensures learning for all"

The purpose of this Course Description Booklet is to assist students and their parents in planning course selections for the 2022-2023 school year. Students will begin the pre-registration process and meeting with their counselors during the month of November to select courses for the next school year. When making selections, students should consider alternative choices in the case that one of their first choices is not offered next year due to insufficient enrollment or changes in staffing.

Together, students and parents will work with the school counselors to ensure students stay on track for graduation. We encourage students to select coursework that provides comprehensive instruction for the type of postsecondary education or work they plan to pursue. Our school counselors are available to discuss course plans and goal setting. Please do not hesitate to call our counseling office to ask questions or set up an appointment at 672-2495, extension 3116.

School Counselors are determined by your student's last name.

School Counselors:

A-D Becky Leno: becky.leno@scsd2.com

E-K Pam Peldo: pamela.peldo@scsd2.com

L-Rh Anne Travis: anne.travis@scsd2.com

Ri-Z Alyssa Yada: alyssa.yada@scsd2.com

Registrar:
Jennifer Bower: jennifer.bower@scsd2.com

SHS GRADUATION REQUIREMENTS To graduate from Sheridan High School, a student must meet the following requirements:

1. 24 credits in grades 9-12.
2. Be proficient in the principles of the Wyoming Constitution that are included in Government classes.
3. Take the ACT.
4. Meet the credit requirements listed below.

Class	Required Credits
English	4 credits
Mathematics	3 credits
Science	3 credits
Social Studies	3 credits
Health	0.5 credit
Physical Ed.	1 credit
Electives	9.5 credits

SHS Graduation Credit Check

Student Name:_____ _____Date: _____

English (4 credits)

- 9 S1
- 9 S2
- 10 S1
- 10 S2
- 11 S1
- 11 S2
- _____
- _____

Math (3 credits)

- _____
- _____
- _____
- _____
- _____
- _____

Science (3 credits)

- _____
- _____
- _____
- _____
- _____
- _____

Social Studies (3 credits)

- _____
- _____
- _____
- _____
- _____
- _____

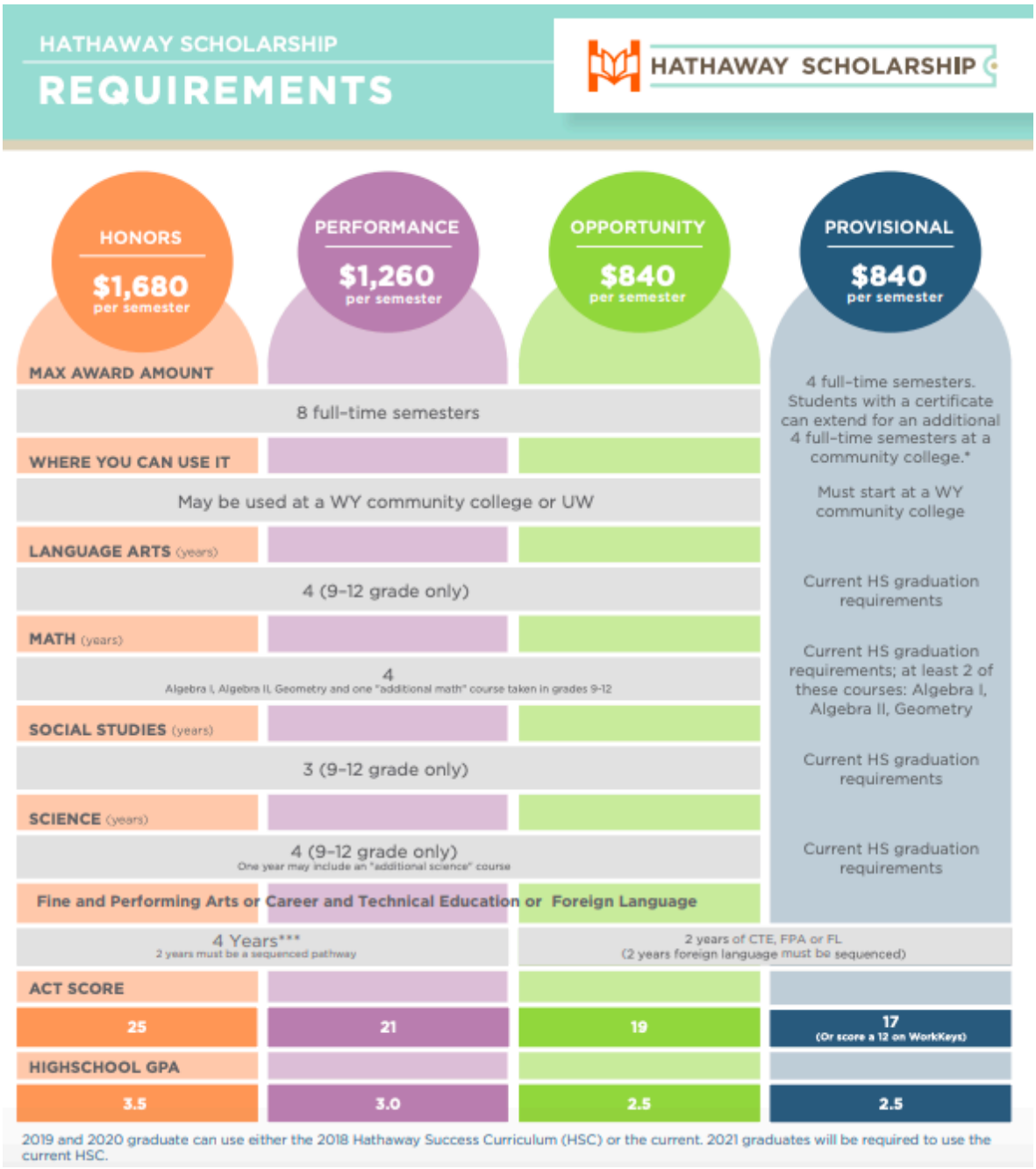
Physical Education (1.5 credits)

- Health & Safety
- Individual & Team
- _____

Electives (9.5 credits)

- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____
- _____

GPA: _____ ACT Score: _____ Hathaway Level:_____



HATHAWAY SUCCESS CURRICULUM

For guaranteed admission to the University of Wyoming, students must have a cumulative unweighted high school GPA of 3.0 (on a 4.0 scale), with a minimum composite ACT score of 21 or an SAT score of 980 (math/critical reasoning combined). Students wishing to attend the University of Wyoming or any of the seven Wyoming Community Colleges will be required to have a high school diploma.

“Will I Qualify for the Hathaway Scholarship Program?”

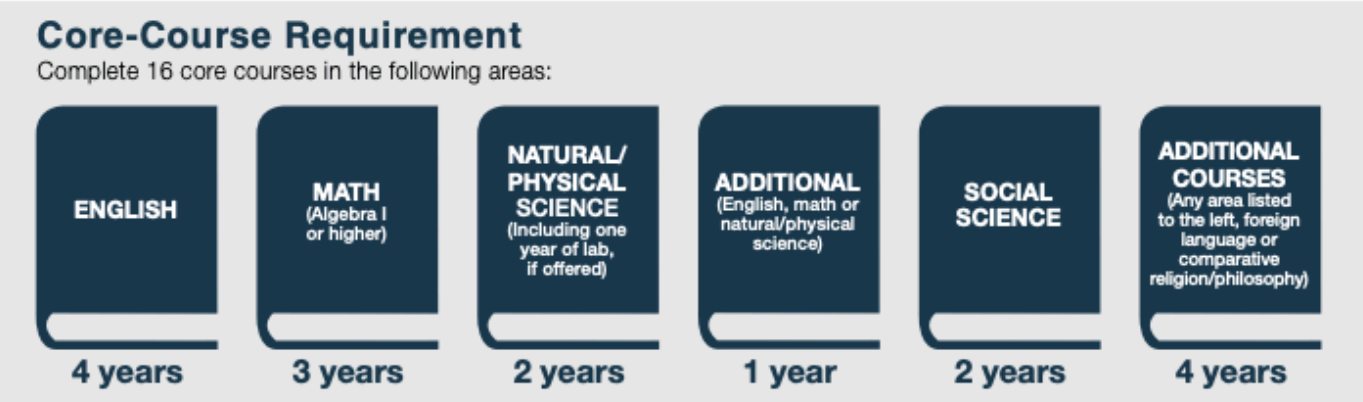
Students and Parents: If you plan on applying for the Hathaway Scholarship Program, any Wyoming Community College, or the University of Wyoming, please utilize the following informational charts.

Using the information below locate your position for a current estimate

Scholarship Level	Not Eligible	Provisional Opportunity (Two Years Only)	Opportunity	Performance	Honors
ACT Score	Below 17	17 (or WorkKeys 12)	19	21	25
GPA	Below 2.5	2.50	2.50	3.00	3.50
Cost per Semester	$0	$840	$840	$1,260	$1,680
Annual Cost (4+ Years)	$0	$3,360	$6,720	$10,080	$13,440
Disclaimer: This is a general guide only. Additional requirement(s), or legislative action may impact Hathaway qualification.					

DIVISION I ACADEMIC REQUIREMENTS

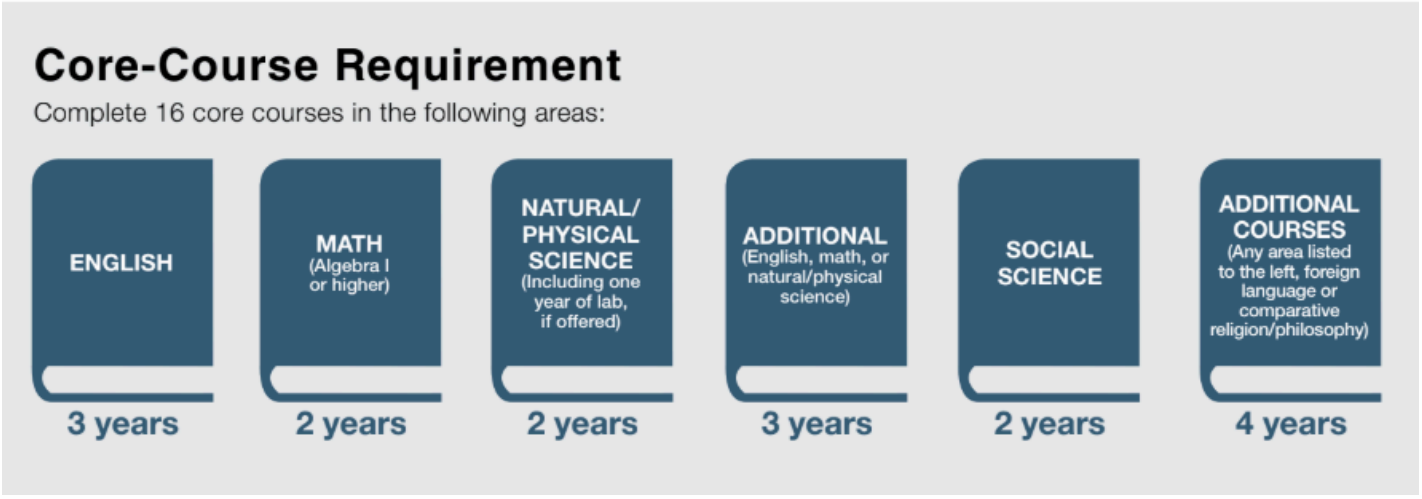
College-bound student-athletes enrolling at an NCAA Division I school need to meet the following academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.



FULL QUALIFIER • Complete 16 core courses. • Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school. • Seven of the 10 core courses must be in English, math or natural/physical science. • Earn a core-course GPA of at least 2.300. • Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale • Graduate high school

2018 DIVISION II NEW ACADEMIC REQUIREMENTS

College-bound student-athletes first enrolling at an NCAA Division II school on or after Aug. 1, 2018, need to meet new academic rules to practice, compete and receive athletics scholarships during their first year.



FULL QUALIFIER • Complete 16 core courses. • Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school. • Seven of the 10 core courses must be in English, math or natural/physical science. • Earn a core-course GPA of at least 2.300. • Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale • Graduate high school.

NONDISCRIMINATION STATEMENT

Sheridan County School District No. 2 does not discriminate on the basis of economic status, intellectual ability, race, color, national origin, sex, sexual orientation, gender identity, transgender status, age, disability, or religion in admission or access to, or treatment of employment in, its educational programs or activities. Inquiries concerning Title VI, Title IX, Section 504, and ADA may be referred to Sheridan County School District No. 2:

Title IX Coordinator

Human Resource Director

201 N. Connor St.

Sheridan, WY 82801

307-674-7405

Section 504 Coordinator

Special Services Director

201 N. Connor St.

Sheridan, WY 82801

307-674-7405

CERTIFICATIONS Sheridan High School strives to prepare students with the necessary tools they need in order to be successful when they enter the workforce, post-secondary training, or educational field. Certification programs provide students with the opportunity to pursue special areas of interest that help motivate, educate and support personal and professional growth after graduation. The following Career & Technical Education programs offer certifications for SHS students:

- Emergency Medical Responder (EMR)
- Business Certifications: QuickBooks, TestOut PC Pro, TestOut Network Pro, Microsoft Office,
- CADD: Solid Works, CSWA, CSWP
- Certified Nursing Assistant (CNA)
- Culinary: ServSafe Manager certification
- Construction: OSHA 10
- First Aid/CPR Certification
- Welding: AWS/SENSE Welding Certification
- Agriculture:, HOSTA Hazardous Occupations Safety Training in Agriculture, various iCEV certifications

ADDITIONAL FEES Additional fees may be assessed in courses that utilize premium supplies. If you are eligible for Free & Reduced lunches, the fee will be waived. Courses that may have additional fees are as follows:

AP Chemistry	Earth Science	Foods & Nutrition	Power Mechanics
Advanced Foods	Emergency Medical Responder	Human A & P	Rebel Chef
Art Unwrapped	Intro to Health Occupations	Vocational Ag I	Aquatic Biology
Welding I-II	Machine Shop I-III	Woodworking I-III	Certified Nursing Assistant
AP Biology	Chemistry	Physics	

NEXT LEVEL WORK EXPERIENCE/INTERNSHIPS

The Next Level Work Experience/Internship Program provides internships in the Sheridan Community for SHS senior students. The students are matched with local businesses and industries, giving the student an opportunity to engage in long-term career exploration. Students have a two-period block set up during the school day to attend the training and will receive one school credit upon successful completion of the internship. For more information, contact the Next Level Intern Coordinator at 672-2495 Ext. 2109 or 672-2495 Ext. 1903.

COLLEGE CREDIT OPTIONS

SHS students may earn college credits in the following ways: **ADVANCED PLACEMENT (AP) PROGRAM** If you plan to attend college, it is recommended that you take a minimum of one AP class. The Advanced Placement (AP) Program, sponsored by the College Board, is a cooperative educational endeavor between secondary schools, colleges, and universities around the country. It also provides the means for colleges to grant credit, placement, or both to students who have applied themselves successfully.

The benefits of AP include increasing the student's depth of knowledge and skill. Students who take AP courses are able to learn a subject in depth, develop analytical reasoning skills, and form disciplined study habits that can contribute to continued success at the college level. They may also gain time during college to explore additional subject areas and to participate in internships or study abroad. Research supports the added college success for those students who take AP classes.

If students in AP courses choose to take the AP examinations in May, it will enable them to compare their knowledge and understanding of a subject with that of other AP students. The challenge of competing with one's peers on national and international levels is a rare opportunity.

In addition, satisfactory AP grades, as determined by the individual institutions, can allow students to bypass introductory-level courses in college in order to pursue more advanced studies. Each year, more than 30,000 AP students are potentially eligible for sophomore standing at about 1,400 colleges.

Each Advanced Placement class will add a .5 bonus for purposes of determining class rank. These courses are extremely challenging. Students may enroll in a maximum of five (5) AP courses at one time.

It is always necessary for students to contact individual institutions for their policies, in regard to acceptance of AP credits.
Courses are as follows:

AP Biology	AP English Literature & Composition	AP Spanish
AP Calculus	AP Environmental Science	AP Statistics
AP Chemistry	AP Physics B	AP US Govt & Politics
AP Computer Science Principles	AP Psychology	AP US History
AP Computer Science A		

CONCURRENT ENROLLMENT
Sheridan High School and Sheridan College have a partnership that provides high school students an opportunity to earn both transcripted high school and college credit in approved courses at no cost. Some college credits earned through concurrent enrollment may transfer to other postsecondary institutions. A Sheridan College concurrent enrollment registration form must be completed to enroll. Courses are as follows:

A+ Computer Maintenance	Culinary Art ProStart Yr 1/Yr 2	
Advanced Machine Shop	Intro to Health Occupations	Networking Academy
Athletic Training	Intro to Accounting	AP Spanish
Certified Nursing Assistant	Intro to Early Childhood Ed	Spanish III
English 1010	Intro to Public Speaking	Microsoft Applications
Emergency Medical Responder	Machine Shop I	
Human Anatomy and Physiology	Woods 2-3	

DUAL ENROLLMENT
Dual Enrollment allows high school juniors and seniors to take a college course and earn both transcripted college and high school credit. Students must be on track for graduation and have approval from their counselor before enrolling in a college class. Documentation of enrollment must be provided to the counseling office before the high school semester begins and a high school contract must be signed. A Sheridan College dual enrollment registration and grant form must be completed to enroll. Sheridan College will cover tuition up to 24 credits across the junior and senior years. Payment for the course will be made by the district office once the student receives a passing grade.
College course rules:
● **All dual enrollment students are required to take a 1-credit college course during the first dual enrollment semester entitled "Gateway to Student Success."**
● **All classes required for graduation must be taken at Sheridan High School.**
● **Students may not substitute college courses for SHS classes** that are already offered at the high school level (i.e. ENG 1010, AP Calculus AB).
● A 1-2 college credit-hour class will be recorded as a .25 SHS credit.
● A 3-6 college credit class, or a three-credit hour class plus a lab hour, will be awarded .5 SHS credits.

Exceptions to these rules may only be granted by the district superintendent.

Along with the benefits of earning college credits comes the responsibility of being a college student. All paperwork must be filled out completely and accurately. Students must also realize they are building a college GPA. Therefore, failure to notify Sheridan College of dropping a course will result in the instructor entering a failing grade on the Sheridan College grade roster and transcript. Failing grades could also impact student eligibility for financial aid.

Please contact your high school counselor or Sheridan College for more information.

Schedule Changes

The following guidelines will be used to determine whether or not a schedule change will be allowed.

It is encouraged that parents spend time helping their child choose their classes wisely. The SHS Counseling staff welcomes parents to attend registration appointments and/or contact us with any questions or concerns at any time.

Class Drop/Withdrawal/Withdrawal-Fail Policy (year-long class)
Students are able to **drop** classes and enroll in a different class during the **first five school days** of each semester, with no impact on the transcript, as long as there is room in the desired class. After the first five days, students may apply to **withdraw** from a course up until the end of the first nine weeks. Up until the 9th week, the transcript will reflect a "W" with no credit for the dropped class. A student who withdraws from a class after the 9th week of the semester shall receive a **withdrawal-fail** grade on his/her permanent record and this grade will be factored into the GPA as if they received an "F" in the class. Extenuating circumstances will be given special consideration pending administrative approval.

1-5 days: Nothing posted to transcript.	**First 9 weeks:** "W" posted to transcript, GPA is not impacted.	**After 9 weeks**: "WF" posted to transcript, GPA will be impacted.

Class Drop/Withdrawal/Withdrawal-Fail Policy (semester-long class)
Students are able to **drop** classes and enroll in a different class during the **first five school days** of each semester, with no impact on the transcript, as long as there is room in the desired class. After the first five days, students may apply to **withdraw** from a course up until the end of the first five weeks of each semester. Up until the 5th week, the transcript will reflect a "W" with no credit for the dropped class. A student who withdraws from a class after the 5th week of the semester shall receive a **withdrawal-fail** grade on his/her permanent record and this grade will be factored into the GPA as if they received an "F" in the class. Extenuating circumstances will be given special consideration pending administrative approval.

1-5 days: Nothing posted to transcript.	**First 5 weeks:** "W" posted to transcript, GPA is not impacted.	**After 5 weeks**: "WF" posted to transcript, GPA will be impacted.

Students who are experiencing difficulty in a class are encouraged to contact their teacher first, then a counselor, and finally an administrator. Consideration of a variety of strategies will be discussed in order to assist students in successfully completing their classes.

COURSE WITHDRAWAL FORM
SHERIDAN HIGH SCHOOL

Completion of this form and the procedure does not automatically mean that permission to withdraw from the class will be granted. After the first 5 days of the semester, withdrawal will result in either a "W" or "WF" on your transcript unless there are special circumstances.

1. I am aware that I must attend this class until the Bronc Success Center notifies me a change has been officially made.
2. Title of Course _____ Period _____

   Is course required for Hathaway eligibility? _____ Yes _____ No

   Is this a concurrent enrollment course? _____ Yes _____ No

   Is this course a year-long course or semester-long course? Circle one: Year-long Semester-long
3. Student's Name _____ Grade _____ Date _____

   Student's signature: _____
4. Student's statement of reasons to drop course: _____

   _____
5. Teacher's comments: _____

   _____

   Teacher's signature: _____

   Current Grade _____ Textbook returned _____ Yes _____ No
6. Parent's comments: _____

   _____

   I understand that by dropping this course my son/daughter may impact Hathaway eligibility, if applicable.

   Parent's signature: _____
7. Counselor's comments: _____

   _____

   Counselor's Signature: _____

   Date _____

It has been determined that the final grade will be:

_____ Withdraw Only _____ Withdraw Fail

A parent/teacher/student/counselor/administrator conference may be required.

AGRICULTURE

Students enrolled in agriculture classes are eligible and encouraged to be FFA members.

Ag Mechanics & Tech Systems.....Cr .5 Grades 10-12
A single semester course: Topics covered will include internal combustion engine theory, power systems, electrical systems, fuel systems, lubrication systems, overhaul procedures, troubleshooting, tune-up and storage of 2 and 4 cycle small engines.

Ag Welding I.....Cr .5 Grades 9-12
This is a one-semester course and the first in a series of welding courses. This pre-vocational course gives students an introduction to the field of welding. Oxy-acetylene and arc welding are introduced with emphasis on safety. This course is valuable for art students as well as a reinforcing course for machine shop, agricultural mechanics, automotive mechanics and advanced welding courses.

Ag Welding II.....Cr .5 Grades 10-12
Prerequisite: "C" or better in Ag Welding I
This is a one-semester course and the second in a series of welding courses. This is a one-hour course, which covers electric arc, MIG and TIG welding and plasma cutting. Each student will have an individual station for the laboratory portion of his or her training. During the second half of this course, students will be required to build a project for which they will need to purchase all necessary materials. With instructor approval, students may take additional semesters of advanced welding.

Ag Project Construction…….......Cr .5 Grades 10-12
Prerequisite: "C" or better in Ag Welding I & II
A one-semester course that meets two periods each day. The course content consists of individual project development and construction. Students can build their own projects upon instructor approval. If students do not have a project to build, one will be assigned. Students will accurately plan, calculate costs, estimated time of completion for each stage, build and finish metal or wood projects. Students will pay for all materials for their own project. Each project will show an increased level of difficulty in planning and building.

Fundamentals of Animal Science.....Cr .5 Grades 10-12
A one-semester course that meets one period each day. The course content consists of animal behavior, structure, function, and maintenance of major body systems, inheritance and genetics, animal nutrition and feeding, animal health, evaluation and selection of livestock and meats, and products available from meat animals, including poultry. Leadership and career activities consist of writing and presenting animal science research papers and conducting meetings, as well as exploration of careers in animal science, job search techniques and developing desirable employment skills. Students who choose to join FFA will be eligible to participate in FFA contests and trips. Some of the class activities may be closely related to FFA and all students are expected to participate. Students will keep a class notebook and project record.

Introduction to Ag Engineering.....Cr .5 Grades 10-12 This is a one-semester hands-on course dealing with the requirements for engineering in agriculture and environment, and focusing on the mineral and gas industry as well as civil engineering. Hands-on activities will include surveying, using Global Positioning Systems, testing soil and groundwater, and using materials. It will include reclamation and construction and management skills.

Equine Science.....Cr. 5 Grades 10-12 This is a one-semester course that covers a detailed study of anatomy and physiology of the horse as related to nutrition, reproduction, athletic ability, unsoundness and control of diseases and parasites. The objectives of this course are 1) to develop an understanding of the horse industry on a national and state-wide basis from an economic, scientific and business perspective; 2) to assess the current state of the industry and modern uses of the horse; 3) to develop an understanding of feeding, breeding, marketing, health management, and facility design, and the ability to utilize these principles in contemporary management situations; 4) to develop an understanding of production methods and management systems that will aid in developing efficient, economical and profitable horse enterprises; and 5) to increase the awareness of contemporary issues in the equine industry. The course objectives are met through lectures, laboratories, and special projects.

Natural Resources & Outdoor Recreation.....Cr .5 Grades 10-12
This one-semester course deals with the ever-expanding industry of natural resources and outdoor recreation, including range management, forestry, and fish and wildlife. It explores career options in outdoor recreation and natural resources. Students learn to identify wildlife and learn about habitat improvement. Students will do a research project of their choice, and get involved in debate over current issues.

Advanced Veterinarian Science……..……... Cr .5 Grades 10-12
Prerequisite: "C" or better in Intro to Vet Science
This semester-long course will build upon the knowledge and skills that students receive in the Introduction to Vet Science course by focusing on more clinical applications. Students will experience a variety of hands-on procedures including proper handling/restraint of small and large animals, physical examinations, administration of medications, bandaging, suturing, diagnosing and treating diseases, and more. Students will also learn about current industry-standard tools and emerging technologies within the veterinary sciences.

Vocational Agriculture I.....Cr 1 Grade 9
This yearlong course will explore the fast-paced and ever-changing field of agriculture. Students will gain experience in the areas of animal science, plant & soil science, and natural resources. The economics of production agriculture, ag mechanics and leadership skills through FFA will also be covered. In addition to classroom work, students are encouraged to participate in career development events, field trips, and FFA award programs.

The following classes will be offered in 2023-2024:

Introduction to Veterinary Science.....Cr .5 Grades 10-12
This one-semester class deals with the fast paced, ever changing world of veterinary medicine. It includes large animal health, small animal health, vaccination methods, and care and prevention of animal diseases. It also serves as an introduction to preparing for a career in veterinary medicine, requirements for admission to veterinary school and preparation to be a veterinary technician.

Small Animal Care.....Cr .5 Grades 10-12
This one-semester course deals with raising, growing and maintaining small animals, including pets, laboratory animals, and even fish and reptiles. Topics will include feeding and nutrition, disease prevention, grooming, and training. Students will be encouraged to share their pets and experiences with the class.

Sustainable Agriculture & Foods Systems.....Cr .5 Grades 10-12
This course introduces students to a number of perspectives regarding the sustainability of the current food production systems in the U.S. and Internationally. Students will learn about the components of the national and global food systems along with the interactions between the components. We explore the major social and economic obstacles of sustainable farming and agriculture. Students will learn about the possibility of food shortages in our local community and the world. There is an ever increasing population of the world and dependence on limited agricultural production and processing. (How can we survive with flat line food production and staggering increases in human population?) Take this class and look at the possibilities of the future both good and bad. Perhaps your ideas will make a difference in the future of the planet. **This class is also required as part of many Agricultural, Environmental, and Agro Ecology degrees.**

Agriculture Business Management.....Cr. .5 Grades 10-12
This one-semester course deals with the agriculture business and economy industry. Emphasis will be placed on global marketing systems, the economy of agriculture, and planning and operating the agriculture business in the future. Students will also become familiar with ag business careers and various marketing methods, including the futures market.

BUSINESS EDUCATION

Introduction to Business.....Cr .5 Grades 9-12
This one-semester course is designed to introduce students to many of the basic concepts, terminology, and tools of the world of business. Students will begin to develop a basic understanding of macroeconomic principles that influence the microeconomic business environment. Additionally, students learn business principles in entrepreneurship, marketing, ethics, personal finance, and related computer uses. *(Note: This course will provide a good foundation for future studies at a college or trade school in the areas of marketing, management, accounting, retailing, economics, entrepreneurship or finance.)*

Personal Finance.....Cr .5 Grades 11-12
This one-semester course is designed to introduce students to many of the basic concepts, terminology, and tools utilized when managing personal finances. Specifically, students will learn concepts associated with saving money for emergencies and personal wealth building, the implications of debt, budgeting, consumer awareness, insurance principles, and mortgage principles. The topics discussed in this course are topics that influence our lives on a daily basis – not just as adults, but also as students and even young children.

Introduction to Accounting (Practical Acct).....Cr 1 Grades 10-12
This one-year course covers accounting principles and procedures used in business and in your personal finances including journalizing, posting, preparation of financial statements, and other selected topics. Students apply the fundamentals of accounting to small and merchandising businesses that are necessary to make sound business decisions. Quickbooks is offered during the 2nd Semester of Intro to Accounting, and students are encouraged to take Quickbooks after taking the 1st semester of Intro to Accounting. **College credit can be awarded through concurrent enrollment with Sheridan College.**

QuickBooks.....Cr .5 Grades 10-12
Increase your employability and earn industry certification by learning financial software used by most businesses today. This course will improve students' accounting skills and give them a real-world, project-based look at the same bookkeeping procedures millions of businesses use every day. Quickbooks is offered during the 2nd Semester of Intro to Accounting, and students are encouraged to take Quickbooks while or after taking Intro to Accounting. Students have the opportunity to take the QuickBooks Online Certification Exam at the completion of the course.

Microsoft Applications.....Cr .5 Grades 9-12
This one semester course is designed to help students become more proficient using Microsoft Office 2010 software applications in Word, Excel, Access, and PowerPoint. The skills learned in this class are necessary in one's personal, academic, and professional life. The newest Microsoft Office Specialist credential validates skills in the 2010 Microsoft Office System and ensures students possess the skills employers and colleges require. **Optional MOS Certifications available. College credit can be awarded through concurrent enrollment with Sheridan College.**

COMPUTER SCIENCE

App Development: JavaScript.....Cr .5 Grades 9-12
This course is aimed at students with **little or no prior programming experience** and a desire to understand computational approaches to problem-solving. Students will enter the world of computer science by learning how to create animations, computer games, and interactive projects. Using Scratch and App Inventor, a graphical programming language developed at MIT, students learn fundamental programming concepts such as variables, loops, conditional statements, and event handling. They will also learn the foundation of HTML/CSS and Python. At the end of the course, students create their own computer app and game. Students who successfully complete the course will be prepared to take the AP Computer Science Course.

Python……..……...……...…….. Cr .5 Grades 10-12
Computer Science 2 builds on the first-semester course by transitioning to a text-based program using the beginner-friendly Python language. Upon completion of this course, students will have the background to create simple games of their own design and be prepared to enroll in AP Computer Science Principles. There are huge

career opportunities after high school in these growing fields.

Computer Science Principles (CSP).....Cr 1 Grades 10-12
Computer Science Principles is a full-year course equivalent to a first-semester introductory college computing course that introduces students to the foundations of modern computing. The course covers a broad range of topics including HTML, CSS, and JavaScript, algorithms, cybersecurity, digital privacy, and the Internet. Projects and problems include while loops, arrays, functions, simulations, IP addressing, designing algorithms, and more.

AP Computer Science Principles (AP CSP).....Cr 1 Grades 10-12
Prerequisite: Computer Science 1 or Computer Science 2
AP Computer Science Principles is a full-year course equivalent to a first-semester introductory college computing course that introduces students to the foundations of modern computing. The course covers a broad range of topics including HTML, CSS, JavaScript, algorithms, cybersecurity, digital privacy, and the Internet. Projects and problems include while loops, arrays, functions, simulations, IP addressing, designing algorithms, and more. **Students will have an opportunity to take the AP Computer Science Principles Assessment which includes two performance tasks and one test.**

AP Computer Science A (AP CSA)…….. Cr 1 Grades 10-12
Prerequisite: AP Computer Science Principles
The AP Computer Science A course is a year-long course designed to help students master the basics of Java. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development, and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. **Prerequisite:AP Computer Science Principles. Students will have an opportunity to take the AP Computer Science A Exam upon completion of the course.**

Web Design I.....Cr .5 Grades 9-12
The World Wide Web (www) is the fastest-growing component of the Internet. This one-semester course includes a study of the impact of the World Wide Web on society, elements of web design, and web site creation and management. Using professional graphics software, Adobe Dreamweaver, students will create original artwork and animation to use in developing web content pages and sites.

3D Programming: JavaScript.....Cr .5 Grades 10-12
Prerequisites: Web Design 1
This course provides students with a theoretical and conceptual understanding of the field of game design, along with practical exposure to the process of creating a game. Topics covered include iteration, rapid prototyping, mechanics, dynamics, flow theory, the nature of fun, game balance, and user interface design. The primary focus is on classic gaming. Students will also be exposed to the world of Robotics. The students will learn the basics of development, building, and programming of robots. Student designed robots will be programmed to compete in various courses as developed by classmates.

A+ Comp. Maintenance.....Cr 1 Grades 10-12
This course provides students with the skills necessary to install, troubleshoot, secure, repair, configure, and manage computer hardware, operating systems, and software in home and corporate environments. These are the most basic foundational skills required of all IT professionals. Students will also repair SCSD2 Chromebooks for practice. This course will prepare students for the CompTIA A+ 220-901 and 220-902 certification exams. **College credit can be awarded through concurrent enrollment with Sheridan College.**

Networking ..... Cr 1 Grades 10-12
In this course, students gain the knowledge and skills needed to install, configure, and maintain a network for a small business. They learn to perform tasks commonly performed by IT network professionals including IP configuration, setting up wireless and wired networks, managing networks, basic network security, installing software updates and hardware upgrades, and network protocols. This course prepares students for the TestOut Network Pro and CompTIA's N10-006 certification exams. **College credit can be awarded through concurrent enrollment with Sheridan College.**

ENGLISH

English 9.....Cr 1 Grade 9
In this year-long course, students examine different genres and focus on the various facets of literary analysis, specifically in regards to direct textual evidence. Students learn the basics of thesis development, quote selection, and quote analysis using film, poetry, short stories, nonfiction, novels, and Shakespeare as source material. By learning and applying the elements of fiction and nonfiction, students continue their study and analysis of literature and literary techniques. Listening and speaking skills are also used as part of the reading and writing process.

Accelerated English 9.....Cr 1 Grade 9
Required: Recommendation of English teacher & Screening
This year-long course is designed for students whose test scores and teacher recommendations indicate that they can meet the learning objectives faster to allow time for enrichment and acceleration. Students have the opportunity to challenge themselves with critical thinking and above-grade-level coursework. Working with a concentrated group of similarly gifted and talented peers, students analyze classic and modern literature including works from Homer, Shakespeare, and Dickens. Students are challenged to think critically about the world around them and demonstrate complexity of thought in both Socratic Seminar discussions and through honing their analytical and argumentative writing skills.

English 10.....Cr 1 Grade 10
This year-long course emphasizes both informal and formal writing, speaking, and listening skills. Critical thinking expands as students analyze fiction, nonfiction, and informational texts. As a step toward more sophisticated thinking, a unit in rhetoric and logic sharpens students' awareness of how language in various formats may be used

for a variety of purposes. Reading a drama and a novel add to a student's literary experience. To earn credit in this course, students must successfully write expository and persuasive arguments, eventually in the form of literary analysis and research essays. They also utilize the elements of effective oral communication by preparing and delivering several speeches. This course offers students the opportunity to practice and improve their literary maturity.

Accelerated English 10.....Cr 1 Grade 10
Required: Recommendation of English teacher & Screening
This year-long course is designed for students whose test scores and teacher recommendations indicate that they can meet the learning objectives faster to allow time for enrichment and acceleration. Students have the opportunity to challenge themselves with critical thinking and above-grade-level coursework. Working with a concentrated group of similarly gifted and talented peers, students read a variety of classic and modern texts and analyze the philosophical underpinnings that continue to shape our world. Students are challenged to think critically about the world around them and demonstrate complexity of thought in both Socratic Seminar discussions and through honing their expository and analytical writing skills.

English 11.....Cr 1 Grade 11
This year-long course is a college and career preparation course which is organized around central themes and concepts. The purpose of the class is to acquaint students with both classic and contemporary American literature and informational text to engage them in the process of critical reading, writing, thinking, and questioning. ACT preparation is integrated throughout the course as students hone the skills needed to be successful in the future. Throughout the year, students will explore a wide variety of texts such as poetry, short stories, novels, film, visual arts, and nonfiction.

Accelerated English 11.....Cr 1 Grade 11
Required: Recommendation of English teacher & Screening
This year-long course is designed for students whose test scores and teacher recommendations indicate that they can meet the learning objectives faster to allow time for enrichment and acceleration. Students have the opportunity to challenge themselves with critical thinking and above-grade-level coursework. Working with a concentrated group of similarly gifted and talented peers, students read and analyze American literature from the colonial period through the twentieth century. Literary forms include political documents, letters, autobiographies, essays, poetry, and short fiction. Students are challenged to think critically about the world around them and demonstrate complexity of thought in both Socratic Seminar discussions and through honing their analytical and argumentative writing skills.

Technical Reading & Writing.....Cr .5 Grade 12
This semester-long senior elective will emphasize academic technical reading, writing, speaking, and listening through rhetorical and comparative analysis of media, technical communication and literacy tasks. Students will develop the technical reading and writing skills needed to understand characteristic features of quality articles and research inquiry projects pertaining to students' future collegiate fields of study.

CO/M 2010: Introduction to Public Speaking.....Cr .5 Grade 12
Prerequisite: C or better in English 1010
This semester-long senior elective introduces the material and methods for developing ideas, organizing material, and delivering both formal and informal speeches. The course emphasizes the speaker's attention to the speaker/audience relationship. It is designed to develop the skills needed for effective oral presentations and listening in a collegiate setting. As an upper-level, college English course, there is a writing component existing of speech notes, speech outlines, and a speech analysis essay. **College credit is awarded through concurrent enrollment with Sheridan College for completion of the course with a grade of C or better. This course may only be taken in concurrent enrollment.**

English 1010.....Cr .5 Grade 12
Required: ACT Reading score of 18 or higher.
In this semester-long senior elective, students will learn college-level essay writing that employs logical and critical thinking, strong organization, and the expression of ideas through academic language. **College credit will be awarded through concurrent enrollment with Sheridan College for completion of the course with a grade of C or better. This course may only be taken in concurrent enrollment.**

AP English Literature & Composition.....Cr 1 Grade 12
Prerequisite: "B" or above in English 10 and "B" or above in English 11 and completion of summer reading.
This year-long senior elective is designed to deepen student understanding of the ways writers use language to provide both meaning and pleasure for their readers. It is an intensive study of various genres of British literature with representative works from the sixteenth to the twentieth centuries, concentrating on works of recognized literary merit. Successful completion of the course requires careful reading and analysis to understand a work's complexity and the social and historical values it reflects and embodies. Thoughtful discussion and writing are required in the consideration of a work's structure, style, and themes, and an understanding of figurative language, imagery, symbolism, and tone is necessary. This course requires extensive reading and writing.

Literature Genres.....Cr .5 Grade 12
In this semester-long senior elective, students will be reading and analyzing college preparatory classical and contemporary novels. This semester long course is designed to prepare students for the analytical reading required by College Freshman English classes. Culminating projects and essays will examine how literary techniques are utilized to achieve a variety of meaningful interpretations of a written text. Class time will be devoted to reading/project research and completion.

Poetry.....Cr .5 Grade 11-12

Prerequisite: "B" or above in English 10 to take as a Junior
In this semester-long elective for juniors and seniors, students read a variety of poems of diverse poetic forms with the primary focus of making inferences about the implicit and explicit meanings of written texts. Students also analyze the function of poetry in the real world, how poets develop mood and tone, and how structure contributes to a

poem's meaning. Students demonstrate these skills both through writing about published poems and writing poems of their own.

The following four classes earn general elective credit, not English credit:

Broadcast Journalism.....Cr 1 Grades 11-12
Required: Instructor approval.
In this year-long course, students will learn the basic standards of broadcast journalism; examine First Amendment rights and responsibilities; study the effects of broadcast media on culture; write and produce news stories and short documentaries for video broadcast, and work in small groups to produce independent video projects. Students will develop research and interviewing skills, and learn all technical aspects of video production, including audio production, camera use, editing, and post production. Students who take this class must be able to work well in small groups.

Literacy Studies 9.....Cr 1 Grades 9
Required: Assessments and teacher recommendation.
This year-long course is designed to improve reading comprehension, fluency, and vocabulary. Students will have daily experiences that cultivate comprehension through accurate fluent reading, background knowledge, vocabulary, reading-writing connection, and a variety of reading strategies. Instruction will occur with individuals or small groups.

Literacy Studies 10-12.....Cr 1 Grades 10-12
Required: Assessments and teacher recommendation
This year-long course is designed to improve reading comprehension, fluency and vocabulary applied to cross-curricular reading experiences. Instruction will occur with individuals or small groups.

Publication/Journalism.....Cr 1 Grades 10-12
Prerequisite: Instructor approval
In this year-long course, students study the history of the American press; examine First Amendment rights, responsibilities, and ethics; and concentrate on developing proper journalistic styles of writing, layout, and design. Students must use researching and interviewing skills and revise work as many times as necessary for publication. Students will be involved with advertising and photography and will submit work for publication in the school newspaper.

FAMILY & CONSUMER SCIENCE

Child and Family Studies.....Cr .5 Grades 9-12
This one-semester course is recommended to all students interested in careers involving children and families. This course will explore all who influence a child's development, and the skills that will make them more effective in understanding the physical, social, emotional, and intellectual development of children from conception to three years old. The students will complete observations of children in a preschool setting.

Clothing Selection & Fashion Design.....Cr .5 Grades 10-12
A one-semester course designed for the student interested in all aspects of clothing. Topics covered include elements and principles of design related to clothing, figure analysis by computer, color analysis, fibers and fabrics, wardrobe planning and purchasing clothing with styles, designs, colors, and accessories suitable to the individual student.

Foods & Nutrition.....Cr .5 Grades 9-12
This one-semester course includes planning, preparing, and selecting well-balanced meals. Emphasis is on current food topics and covers the relationship of food to personal living. This course is not the same as Introduction to Foods offered at the junior high. Supplies fee $10.

Culinary Arts 1 - ProStart.....Cr 1 Grades 11-12
Prerequisite: Completion of Foods & Nutrition with a "C" or better.
The ProStart program is a pioneering school-to-career program that introduces juniors and seniors to careers in foodservice and teaches the basic skills and knowledge needed for success in the foodservice industry. The first year content consists of food safety and sanitation, foodservice 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. **This course offers Sheridan College concurrent enrollment credit: Intro to Hospitality Management.**

Culinary Arts 2 - ProStart.....Cr 1 Grades 11-12
Prerequisite: Completion of Foods & Nutrition with a "C" or better.
This second year course is an advanced course in restaurant management. Students will gain further skills in the areas of customer relations, food preparation, menu development, cost controls, marketing, management, and communication. Students will have the opportunity to obtain a Wyoming State Food Handler's Permit Certification. ***ProStart courses do not need to be taken in sequential order.***

Global Cuisine.....Cr .5 Grades 10-12
Prerequisite: Completion of Foods & Nutrition with a "C" or better.
This one semester course gives students the opportunity to discover the unique flavors and tastes from a variety of cuisines from around the world. Students will explore and prepare menu items using different cooking methods, equipment, ingredients and influences from cultures across the globe. Students will have the opportunity to obtain a Wyoming State Food Handler's Permit Certification. Supplies fee $15.

Interior Design/Housing.....Cr .5 Grades 10-12
A one-semester course explores trends in interior design, home furnishings, and housing, including influences from the past through contemporary times.

Introduction to Early Childhood Education.....Cr .5 Grades 10-12
Prerequisite: Completion of Child and Family Studies with a "C" or better and Instructor approval.
This one-semester course is a concurrent enrollment course specifically designed for students who are interested in preschool and elementary age children or a career working with young children. This class will involve hands-on experiences working with young children. The course will discuss various stages of development of preschool and school age children. Special concerns of parents and caregivers will also be discussed. This course may require time outside of the regular school

schedule. **College credit can be awarded through concurrent enrollment with Sheridan College.**

The Rebel Chef.....Cr .5 Grades 11-12
Take your culinary skills to the next level in this one-semester hands-on class. Learn how to cook using a variety of cooking methods and specialized equipment to create jerky, fruit leathers, jams, jellies, and barbeque. Topics will include knife skills, outdoor cooking techniques, and food preservation methods. Supplies fee $15.

FINE ARTS- VISUAL ARTS

NOTE: Students taking two or more art classes simultaneously will have a maximum lab fee of $40 per semester.

Art Unwrapped.....Cr .5 Grades 9-12
Like no other art class you have ever taken. This class has a little bit of everything for all students from the advanced to the beginner. Students will unwrap art by exploring many different mediums used to create art. We will use the design elements and principles in art, but we will utilize nearly every possible means to make art including digital cameras, computers, photocopiers, image transfers, and printmaking techniques. This is a no holds barred class that will stretch the students' imagination as they create unique art forms. Students will create theme-based collages, montages, assemblages (pictorial sculptures) and many other types of altered art. Get ready to have your ideas about art stretched, twisted, transformed and rewrapped. There is a $10 lab fee for the class.

Art Unwrapped 2-6.....Cr .5 Grades 10-12
Prerequisite: Pass Art Unwrapped with a "C" or better.
There is more art to unwrap. Advanced Art Unwrapped will continue where Art Unwrapped left off. We will continue to explore a multitude of different art techniques, using design principles to create art with an emphasis on using powerful design tools, such as Adobe Photoshop. You will enhance your creativity as you learn how to layer images and apply filters, using digital cameras and image editing platforms. You will develop skills to transform technique to concept, media to expression, ordinary to the extraordinary. We will continue to stretch the boundaries of traditional art by using many different mediums and creative problem solving methods to transform art from the ordinary. If you enjoyed Art Unwrapped, this is the class that will take you to that next level. Supplies fee $15.

Ceramics I.....Cr .5 Grades 9-12
This is a one-semester introductory course for the beginner to intermediate high school student that is interested in exploring ceramics. This class will cover a variety of beginning clay techniques to create original sculptures and learn how to work on the potter's wheel. Supplies fee $15.

Ceramics 2-6.....Cr .5 or 1 Grades 10-12
Prerequisite: Pass Ceramics 1 with a "C" or better or by approval of SHS Art Instructor.
Advanced level ceramics classes may be taken as either a two-hour block (for 1 credit) or for one-hour (for .5 credit) class. Advanced Ceramics may be taken for credit for six consecutive semesters, utilizing skills acquired in preceding level classes. Student must be highly motivated and disciplined as higher-level, as well as independent projects are given. Emphasis will be on creative design, technical skills (with sculpture and using the wheel), glazing while learning to creatively solve visual problems through continued study of the elements and principles of design. Supplies fee $20.

Content Creation for the Digital Age…….Cr .5 Grades 10-12
Prerequisite: Pass Photo/Graphics with C or better, or by approval of SHS Art instructor.
This semester long class will focus on the creation of web content, digital assets, and social media content. From graphics, to video, ads, and influencing on social platforms, we will dive into what it means to be a good digital citizen, explore our own digital footprints, and consider the impact digital content has on us as individuals and the world. In Content Creation, as a class, we will focus on creating media for school clubs and activities. We will also spotlight students and staff in short videos which will be shared and projected on the televisions throughout the school. This class will also interact with Sheridan's community, shadowing content creating businesses and creating a campaign for a local business.

Photography/Computer Graphics.....Cr .5 Grades 10-12
The goal of this one-semester course is to give students a hands-on understanding of basic camera functions and photography, as well as how visual elements are created and manipulated to produce art with computers using Adobe Photoshop. No previous art classes or training is needed to enroll. Students will learn state-of-the-art computer and software technology, with an emphasis on the Adobe Photoshop program. Students will explore the use of the DSLR digital camera, digital photography, photography with social media, and photographic enhancement techniques using Adobe Photoshop software. Students will use principles of design to create illustrations through the use of Macintosh computers, scanning devices, and an inkjet printer. Projects will focus on visual communication through photography techniques, graphic illustrations, and much more. Students will focus on developing their photographic eye, and how to create successful photographs in a visually dominated world. Freshmen must have a B or higher grade point average to sign up for the class. Supplies fee $20.

Photography/Computer Graphics 2-6.....Cr .5 Grades 10-12
Prerequisite: Pass Photo I with a "B" or better or by approval of instructor.
This semester course further explores the use of the DSLR digital camera and creative enhancement of images and skills through the use of the Adobe Suite of programs. Emphasis will be on refining computer aided skills and exploring more fully the capabilities of hardware and software related to electronic illustration and design. Greater self-direction is expected as higher level projects are assigned. Each progressive class (may be taken Photo 2 through 6) emphasizes personal development of skills and techniques. Students will continue to explore creative photography and graphic design techniques through projects designed by the instructor and some by the student with direction and approval from the instructor. Projects will be designed

with the individual student in mind according to their skill set and interests. Upper level students may choose to specialize studies/projects in specific areas such as portraiture, landscape, graphic design, commercial and/or other photography subjects. Students are expected to create a website as a portfolio to showcase their work. Students may sign up for classes consecutive semesters. Lab fee $20 per semester.

Publication/Yearbook .....Cr 1 Grades 10-12
Prerequisite: Consent of instructor.
The goal of this year-long class is to capture events and activities of the school year in a quality published document. Production of such a special document requires a great deal of responsibility and commitment. Students will be fully involved in the yearbook process: selecting the theme, designing layouts, taking photographs, writing articles and captions, selling advertisements, and meeting publication deadlines. Prior photography experience is preferred, but not required. Expect to spend time outside of the school day at events.

Studio Art 1.....Cr .5 Grades 9-12
This is a one-semester introductory course for the beginner or intermediate high school student that is interested in exploring more about the visual fine arts. Students will learn and refine their drawing and painting skills while creating original artwork. This course is open to all high school students and will meet the Fine Arts Standards for graduation. Supplies fee $10.

Studio Art 2-6.....Cr .5 Grades 10-12
Prerequisite: Pass Studio Art I with a "C" or better, or with permission of SHS Art Instructor.
Advanced Studio may be taken for credit for six consecutive semesters, utilizing skills acquired in preceding level classes. Student must be highly motivated and disciplined as higher-level, as well as independent projects, are given. Emphasis will be on refining compositions, using different media while learning to creatively solve visual problems through continued study of the elements and principles of design. Portfolio preparation is included for juniors and seniors interested in continuing their art education. Supplies fee $15. Students may sign up for this class for both semesters.

FINE ARTS - VOCAL MUSIC

Guitar and Piano….....Cr .5 Grades 10-12
This semester course is open to self-motivated students who wish to learn how to play piano and guitar. Each student will receive instrumental training consisting of beginning guitar and piano techniques. Students will be introduced to music note reading and basic music theory concepts. Students will need to be highly motivated, disciplined, and receptive to all musical styles to be successful.

Honor Choir.....Cr 1 Grades 9-12
Prerequisite: Private auditions are required.
The main performing ensemble for the advanced musician, this group meets year-long and presents four major concerts per year. Students must be highly motivated, disciplined, and receptive to classical music styles. Correct completion of student's individual level of theory is required. Sectional rehearsals may be required at the director's discretion. Students must remain academically eligible, and may also audition for NE District Clinic, All-State, All-Northwest, and participate in District Music Festival.

Mixed Choir.....Cr 1 Grades 9-12
This year-long course is open to all high school students desiring to sing. It is the main training group for those wishing to audition for Honor Choir, Treblemakers or Spectrum. All types of music will be presented. In addition to singing, students will learn basic theory, how to read music and correct singing technique. Correct completion of student's individual level of theory is required. There will be four required evening concerts during the year, as well as possible morning sectionals right before a concert. Eligible students may also audition for NE District Clinic, All-State, All-Northwest and participate in District Music Festival.

Spectrum.....Cr 1 Grades 10-12
Prerequisite: Scheduled audition only, Honor Choir.
This group is the major performing group for the community and meets year-long. Students will need to purchase special outfits. This select ensemble will sing everything from madrigals to popular music and jazz. Students must be willing to volunteer extra time in the evenings and on some weekends. It is recommended that Spectrum members be members of Treblemakers or Honor Choir. Spectrum members must remain academically eligible

Treblemakers.....Cr 1 Grades 9-12
Prerequisite: Private auditions are required.
This women's performing ensemble will meet year-long. All types of music will be presented, including popular music and jazz. Students should be highly motivated to perform. Some choreography will be included and students will need to purchase special outfits. In addition to singing, students will learn basic theory, music reading, and proper singing technique. Correct completion of student's individual level of theory is required. There will be four required evening concerts during the year, as well as some possible smaller performances. Students must remain academically eligible, and may also audition for NE District Clinic, All-State, and All-Northwest, and participate in District Music Festival.

FINE ARTS-ORCHESTRA

Baroque Orchestra .....Cr 1 Grade 9-11
This class is a full year program and will emphasize the basics of string playing. Technical issues such as playing in different positions, phrasing, and musicianship are addressed in this class. Etudes and Scale books will augment the whole program. Students who have reached mastery level of performance will perform either with the symphony orchestra or in an ensemble. A student who wishes to begin playing a string instrument may register as a ninth grader provided prior approval has been granted by Mr. Sarkissian.

Symphony Orchestra.....Cr 1 Grades 10-12

A year-long program, this course is offered to serious string players who have a desire to play works by great composers. All prospective students must demonstrate knowledge in performance techniques and also be able to play in second, third and fourth positions. This course particularly addresses the development of technical skills, personal understanding of music performance, and an awareness of the wealth of literature through the ages. All strings rehearse daily, with selected group rehearsals scheduled before and after school. Woodwinds and brass are added during the year to form a symphonic group. Many concerts are scheduled throughout the academic year, and participation is mandatory. The orchestra participates in contests and the string clinic. Opportunity for solo and ensemble work is offered to enthusiastic participants.

FINE ARTS-BAND

Jazz Ensemble.....Cr 1 Grades 9-12
Jazz Band provides continued instruction in instrumental music, including intermediate to advanced fundamentals in music theory and jazz performance. These performances include formal concerts and festivals as well as some local community events. In order to enroll in Jazz Band, students must also be enrolled in either Symphonic Band or Percussion classes, with the exception of piano, guitar, and bass players as no opportunities to play these instruments exist in those classes. Students playing piano, guitar, and bass who play another instrument in band will be given priority over those who don't, due to their background in instrumental music. All phases of the band program require commitment to public performances and time outside of the school day. The director must approve enrollment in this class.

Percussion Ensemble I & II.....Cr 1 Grades 9-12
Enrollment in this year-long class must be approved by the Director. Percussion Class provides continued instruction in instrumental music, including intermediate and advanced fundamentals in music theory and percussion performance. The class will be a separate performing group as well as an extension of the band classes. This class will allow for more individual instruction for the percussion student and will cover multiple facets of percussion performance. It is for 9th-12th grade percussion students. All phases of the band program requires commitment to public performance and time outside the school day. Performances include formal concert and festival events as well as pep band and local community events. Individual opportunities to perform are also encouraged through a variety of local community groups as well as Northeast District Clinic Groups, All-State and All-Northwest Groups, and solo and ensemble events.

Symphonic Band.....Cr 1 Grades 9-10
This year-long class provides continued instruction in instrumental music including fundamentals of music theory, performance, and development of technical skills. Performances include formal concerts, festivals, pep band, and graduation as well as possible community events. Individual opportunities to perform are encouraged through a variety of local community groups as well as NE District Clinic, All-State and Northwest groups, and solo and small ensemble performance. All phases of the band program require commitment to public performance and time outside of the school day. The director must approve enrollment in this class.

Wind Ensemble.....Cr 1 Grades 11-12
Enrollment in this year-long class must be approved by the Director. Wind Ensemble provides continued instruction in instrumental music, including advanced fundamentals in music theory and performance. It is an upper level concert organization and is typically for 11th-12th grade students. Students who enjoy playing their instruments with advanced technical demands and/or abilities should enroll in this class. All phases of the band program requires commitment to public performance and time outside the school day. Performances include formal concert and festival events as well as pep band and local community events. Individual opportunities to perform are encouraged through a variety of local community groups as well as Northeast District Clinic Groups, All-State and All-Northwest Groups, and solo and ensemble events.

FOREIGN LANGUAGE

Spanish I.....Cr 1 Grades 9-12
Prerequisite: Grade of "C" or higher in 8th grade English to begin Spanish I in the 9th grade.
Highly recommended for college-bound students This year-long course is a formal introduction to the Spanish language with emphasis on developing proficiency in listening, reading, speaking, and writing on a variety of topics. Spanish-speaking countries and their customs are introduced through cultural activities. It is strongly recommended that college-bound students begin their foreign language studies by 9th grade.

Spanish II.....Cr 1 Grades 9-12
Prerequisite: C or above in Spanish I
Highly recommended for college-bound students In Spanish II students read and listen to Spanish at increasingly advanced levels and communicate formally and informally by speaking and writing with increased proficiency. Topics include travel, entertainment, a visit to the doctor, legends, the environment, and more. Students will continue to learn about Spanish-speaking cultures and compare them to their own.

Spanish III.....Cr 1 Grades 10-12
Prerequisite: C or above in Spanish II
Spanish III students continue to advance their proficiency in the three modes of communication: interpretive (reading and listening), interpersonal (one-to-one speaking and writing), and presentational (speaking and writing for an audience) using higher-level (or critical) thinking skills, process writing, and speaking strategies. **College credit can be awarded through concurrent enrollment with Sheridan College.**

AP Spanish.....Cr 1 Grades 11-12
Prerequisite: 3 years of Spanish or consent of instructor.
This year-long course is designed to give motivated students the opportunity to earn advanced placement and/or college credit in Spanish, providing they score well on the placement exam. A broad

view of contemporary and historical Hispanic life and culture is gained through interaction with authentic resources in Spanish. Creative use of oral and written Spanish is expected. Spanish grammar and vocabulary are reviewed in depth. Classroom discussions are in Spanish, with English used only as necessary.

Conversational Spanish.....Cr 1 Grades 11-12
Prerequisite: Successful completion of Spanish III.
This year-long course will focus on developing the interpersonal and presentational speaking skills necessary for success in AP or college Spanish classes and in interactions with Spanish speakers in the community and workforce.

HEALTH CAREERS

Athletic Training.....Cr 1 Grades 10-12
Prerequisite: Consent of instructor.
$15 Taping Fee This year-long class is designed to provide students with classroom instruction and hands-on experience in prevention, treatment, and rehabilitation of sports injuries; taping and wrapping of injuries; first aid and CPR; emergency procedures; nutrition; sports psychology; anatomy and physiology; fitness, conditioning, and strength training; and sports medicine careers. This course is designed for students interested in careers in athletic training, physical therapy, medicine, fitness, exercise physiology, kinesiology, nutrition, and/or coaching. **College credit can be awarded through concurrent enrollment with Sheridan College.**

Emergency Medical Responder (EMR).....Cr .5 Grades 10-12
A one-semester course designed to provide students with the skills necessary to handle emergency situations. The activities at the scene and the EMR level care to provide help to save lives, prevent additional injury, and give comfort to victims. Students will be prepared to become state certified as an EMR. Fee for CPR certification. **College credit can be awarded through concurrent enrollment with Sheridan College.**

Intro to Health Occupations.....Cr .5 Grades 11-12
Introduction to Health Occupations introduces the student to health care skills and knowledge applicable to a variety of health care occupations. The student will explore the facilities available for health care employment, become aware of the legal aspects of health care, the personal characteristics needed to become a healthcare worker, as well as job seeking skills. Medical terminology, anatomy and physiology, and infection control concepts will also be part of the students' training in this one-semester class. **College credit can be awarded through concurrent enrollment with Sheridan College.**

Certified Nursing Assistant (CNA).....Cr .5 Grades 11-12
Prerequisite: Completion of Intro to Health Occupations with a "C" or better and instructor approval.
Must be at least 16 years of age. This one-semester course will provide students with the knowledge and skills related to direct patient care. This class is based on the Wyoming State Board of Nursing approved curriculum and will educate students for job entry employment in one of the following areas: Nursing Assistant, and Home Health Aide. Clinical rotation in a long-term care facility will also be required. Following completion of class and clinical, students will sit for the Certified Nursing Assistant State Exam. Fees are charged for the exam, a TB test, and background check. **College credit can be awarded through concurrent enrollment with Sheridan College.**

INDUSTRIAL TECHNOLOGY

CADD 1 (Computer Aided Drafting and Design)
Cr .5……..…….....Grades 9-12
This introductory level course will provide students the knowledge needed for Computer Aided Drafting and Design Work, and provide the opportunity for future, advanced CADD courses. Students will be exposed to areas of The Design Process, Engineering Graphics, Print Reading, Precision Measurement, and Real World Industrial Design Standards. Students will learn and use 3D Parametric Modeling CAD Software AutoDesk-Inventor to create parts, models, and functioning digital assemblies in design areas such as civil or mechanical engineering, architecture, GIS, or manufacturing. This class will cover basic drawing types; such as isometric, 3-view orthographic layout and design while using sketching techniques, Computer Aided Drafting and Design Software, and rapid prototyping equipment, such as 3D printing and laser cutting technologies. Students will have the opportunity to explore and pursue design areas of their own interest using software and equipment in architectural design, civil engineering, GIS (Geographic Information System), digital electronics, robotics, design, and manufacturing as they relate to CADD.

Integrated CADD……..……. Cr .5 Grades 10-12
This course is designed to expand and develop students' knowledge of the Engineering Design Process. Students will use Computer Aided Drafting Software to design, develop, and evaluate models of project solutions of mechanical design. Students will work independently and in teams to design solutions for a variety of project based problems using 3D Parametric Modeling CADD software and state of the art technology such as 3D printing and laser cutting to turn conceptual designs into functioning prototypes and products.

Advanced CADD: ***(Advanced Computer Aided Drafting and Design)***.....Cr 1 Grades 10-12
Prerequisite: CADD 1
This advanced level course will advance students' knowledge and abilities applying the Design Process and Computer Aided Drafting concepts, as well as provide entry level job Computer Aided Drafting Skills using 3D Parametric Modeling CAD Software: Solidworks. Students will apply their knowledge from CADD 1(Computer Aided Drafting and Design) to advance their understanding of the design process and develop advanced CADD concepts. Students will work individually and in teams to design original technical products by applying the engineering design process to design CAD developed parts, components, and assemblies. Students will use project management, design

specification, virtual and destructive/non-destructive prototype testing to develop results based product development, and effective communication through digital documentation, and records. Emphasis will be placed in Feature Based Parametric Modeling Methods, basic part and assembly modeling techniques, and technical drawings; including, section, detail, and exploded views. Students will have certification opportunities through Solidworks and AutoDesk Inventor (CSWA, AutoDesk Certified User: Inventor) Concurrent enrollment through Sheridan College will be provided (ENTK 22505 Computer Aided Drafting 2, 3-Credits). Fee for CPR certification.

Engineering Design ……..…… Cr. 1 Grades 11-12
Prerequisite: Adv. CADD – Year Long
This capstone course will challenge CADD Concentrator students to apply their knowledge of CAD and the Engineering Design Process to investigate, design, and engineer practical solutions to real problems. Students will investigate a problem of mechanical nature, analyze potential; better solutions, then build and test prototypes to their solution. Students will use Solidworks Software to design, develop, and evaluate models of project solutions. Working independently and in teams, students will design solutions to their unique problems using 3D Parametric Modeling CAD software and state of the art technology such as 3D printing and laser cutting to turn conceptual designs into functioning prototypes and products.

Welding I.....Cr .5 Grades 9-12
This is a one-semester course and the first in a series of welding courses. This pre-vocational course gives students an introduction to the field of welding. Oxy-acetylene and arc welding are introduced with emphasis on safety. This course is valuable for art students as well as a reinforcing course for machine shop, agricultural mechanics, automotive mechanics and advanced welding courses. Course Fee: $20

Welding II .....Cr .5 Grades 10-12
Prerequisite: "C" or better in Welding I.
This is a one-semester course and the second in a series of welding courses. This is a one-hour course, which covers electric arc, MIG and TIG welding and plasma cutting. Each student will have an individual station for the laboratory portion of his or her training. During the second half of this course students will be required to build a project for which they will need to purchase all necessary materials. Sheridan With instructor approval, students may take additional semesters of advanced welding. Course Fee: $20 **College credit can be awarded through concurrent enrollment with Sheridan College.**

Woodworking I.....Cr .5 Grades 9-12
This is a one-semester high school woodworking course using hand and machine tools to build projects. An emphasis will be placed on proper and safe use of machines and tools. Students are expected to purchase all their own necessary materials.

Woodworking II…. .....Cr .5 Grades 10-12
Prerequisite: "C" or better in Woodworking I. OR: "B" or better in 7th & 8th Grade Woods at SJHS
This is a one-semester course. Students will build upon their knowledge and skills from Woodworking I to become more familiar with machine tools, operations, and special set-ups. More complex projects will be built. With instructor approval, students may take additional semesters of advanced woodworking. **College credit can be awarded through concurrent enrollment with Sheridan College.**

Woodworking III-IV…….... Cr. 1 Grades 10-12
Prerequisite: Completion of Woodworking II
This course builds on wood fabrication, using hand and power tools and advanced woodworking joinery. This course includes elements of design and utilizing shop drawings to complete fine woodworking projects. **College credit can be awarded through concurrent enrollment with Sheridan College.**

Introduction to Machining Processes.....Cr .5 Grades 9-12
In this one-hour semester course students will discover, practice and demonstrate basic principles of hand tools, machine tooling, foundry, and plastic forming by completing exercises and producing projects. Everyone will complete required projects as well as self-selected work. All materials will be provided for required project work. Students who wish to keep their projects will be required to reimburse the department for materials used. Safety and responsibility will be emphasized.

Machine Shop I.....Cr 1 Grades 10-12
Students should be able to manipulate algebraic formulas and are encouraged to have taken a CADD class. In this consecutive two-hour semester course students will discover, practice and demonstrate basic principles of machine tooling, foundry, and CAM by completing exercises and producing projects. Everyone will complete required projects as well as self-selected work. All materials will be provided for required project work. Students who wish to keep their projects will be required to reimburse the department for materials used. Safety and responsibility will be emphasized. **If continuing for a full year, college credit can be awarded through concurrent enrollment with Sheridan College.**

Advanced Machine Shop.....Cr 1 Grades 10-12
Prerequisite: "C" or better in previous Machine Shop class.
This is a continuation of the Machine I two-hour course. However, students who complete this course are eligible for Sheridan College credit. With instructor approval, students can take additional Advanced Machining courses. **College credit can be awarded through concurrent enrollment with Sheridan College.**

Power Mechanics.....Cr .5 Grades 10-12
A single semester course: Topics covered will include internal combustion engine theory, power systems, electrical systems, fuel systems, lubrication systems, overhaul procedures, troubleshooting, tune-up and storage of 2 and 4 cycle small engines.

MATHEMATICS

Math Connections.....Cr 1 Grades 9-12
Prerequisite: Teacher recommendation.

This full-year course reinforces basic mathematical concepts and skills. More complex topics of higher mathematics are introduced to help prepare the students for Algebra I and Math Lab.

Algebra I.....Cr 1 Grades 9-12
Prerequisite: C or above in pre-algebra, or teacher recommendation.
This full-year course covers the real number system, and algebraic equations, inequalities, and graphing. Both linear and quadratic equations are used extensively in problem solving. Algebra I is required as a prerequisite for Geometry and Algebra II. It can be a great aid for students who might be interested in technical/vocational areas.

Algebra I Math Lab.....Cr 1 Grades 9-12
Prerequisite: Teacher recommendation and concurrent enrollment in Algebra I.
This course is designed to provide support and extra practice for the regular Algebra 1 curriculum. Scheduled back to back with Algebra I, students in this course will meet for two consecutive periods so that by the end of this course students will have completed a year of Algebra 1 as well as developed readiness skills necessary for success in future mathematics courses. Completion of this course prepares a student for further work in mathematics, usually in Geometry. The extra time will allow students to read, write, and discuss solutions with other students and apply the math to life outside of school.

Standard Geometry.....Cr 1 Grades 10-12
This one-year course includes work with logical, organized reasoning and proof examples as they apply to geometric figures. Algebraic skills as applied to geometric concepts are incorporated. Topics will include properties of and work with plane and solid figures; inductive methods of reasoning and use of logic; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

Geometry.....Cr 1 Grades 9-12
Prerequisite: "C" or above in Algebra I.
This one-year course includes work with logical, organized reasoning and deductive proofs as they apply to geometric figures. Algebraic skills as applied to geometric concepts are incorporated. Topics will include properties of and work with plane and solid figures; inductive methods of reasoning and use of logic; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

Honors Geometry.....Cr 1 Grades 9-12
Prerequisite: Teacher Recommendation
This one-year course includes work with logical, organized reasoning and deductive proofs as they apply to geometric figures. Algebraic skills as applied to geometric concepts are incorporated. Topics will include properties of and work with plane and solid figures; inductive methods of reasoning and use of logic; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; law of sines and cosines and rules of angle measurement in triangles.

Intermediate Algebra.....Cr 1 Grades 11-12
Prerequisites: Algebra I and Geometry/Standard Geometry
This is a year-long class developed to enhance and expand on Algebra skills essential for mastery of Algebra II their senior year. The curriculum will delve deeper into Linear, Quadratic and Polynomial Functions, These concepts will include, but are not limited to: properties and operations of real numbers, evaluation of rational algebraic expressions, solutions, and graphs of first degree equations and inequalities, translating word problems into equations, operations with and factoring of polynomials, simple quadratics. This course is meant to provide a deeper understanding and further students' Algebra skills to help ensure success in Algebra II and leave all post high school options open.

Algebra II…….….... Cr 1 Grades 9-12
Prerequisites: "C" or above in Algebra I and Geometry.
This course is for one year and is a continuation of the material from Algebra I with an emphasis on topics needed for advanced math courses. Algebra II is essential in mathematics, science, engineering, statistics, electronics and other related fields. This is necessary for college bound curriculum.

Advanced Algebra II……..…….….... Cr 1 Grades 9-12
Prerequisites: Teacher Recommendation
This course is for one year and is a continuation of the material from Algebra I with an emphasis on topics needed for advanced math courses. Algebra II is essential in mathematics, science, engineering, statistics, electronics, and other related fields. This is necessary for college bound curriculum. This course is faster paced than Algebra II and will include trigonometry.

PreCalculus.....Cr 1 Grades 11-12
Prerequisite: "B" or above in Algebra II.
This course provides an in-depth study of precalculus mathematics. Topics include polynomial, rational, algebraic, exponential, logarithmic and trigonometric functions and relations, conics and their properties, the complex number system, inequalities, probability and statistics, and matrices. Successful completion of this course provides the student with the necessary prerequisites for Advanced Placement Calculus AB.

Introduction to Statistics and Probability……Cr 1 Grades 11-12
Prerequisite: Algebra II/Intermediate Algebra or Teacher Recommendation
This year-long course helps prepare students for success in class and in life. Structured into bite-sized lessons with many integrated activities to get students "doing statistics" from the start, this program helps students understand the "why" and "how" of statistics.

Application Math for the 21st Century.....Cr 1 Grade 12
Prerequisite: Algebra I, Algebra II/Standards II, Standards I/Geometry, Standards II
This course 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. **College credit can be awarded through concurrent enrollment with Sheridan College.**

AP Calculus AB.....Cr 1 Grade 12
Prerequisite: "C+" or above in PreCalculus
AP Calculus is a college-level, year-long course. This is an advanced placement class with goals and objectives specified by Advanced Placement Curriculum. This course will cover limits, differentiation, and integration with their applications. Upon passing the AP test at the appropriate level, students may earn college credit.

AP Statistics.....Cr 1 Grades 10-12
Prerequisite: Pre-Calculus or concurrently enrolled, "B" or above in Algebra II and/or teacher recommendation.
AP Statistics is a college-level course with goals and objectives specified by Advanced Placement Curriculum. This year-long course will cover major concepts and tools for collecting, analyzing, and drawing conclusions from data. Topics will include modeling and understanding data, normality, correlation, designing studies, probability, significance testing as well as confidence intervals. Students will be expected to complete projects intermittently. Assessments will contain the rigor of the AP exam. Upon passing the AP test, students may earn college credit in statistics.

Trigonometry & Functions.....Cr 1 Grade 12
Prerequisite: Successful completion of Algebra II and teacher recommendation.
This college prep course is for students who have passed Algebra II and want to extend and build their advanced algebra skills. Concepts include trigonometry, series and sequences, high order polynomials, and rational expressions. The course will also use the graphing calculator to explore solving problems. This course will prepare students for college math classes.

PE/HEALTH//WEIGHT TRAINING CLASSES

Health and Safety.....Cr .5 Grade 9
One semester of co-ed Health and Safety is required in the 9th grade. Health & Safety focuses on the importance of your physical, mental, social, and emotional health. Each week the class will spend time in the health classroom and outside the classroom working on fitness. It will consist of health related topics, fitness concepts, and aerobic workouts. Some of the topics include driver's education, relationships, decision-making skills, influences on your health, reducing risky behaviors, first aid and CPR, fitness, accessing health information, and more. Students will not be allowed to enroll in Health & Safety during the same semester as Weight Training, Individual & Team Sports, or Personal Fitness.

Individual & Team Sports.....Cr .5 Grades 9-12
Prerequisite: "C" or above in previous PE class to take for elective credit.
One semester of co-ed Individual & Team Sports is required in grades 9-10. All students are required to complete and pass at least one of the Individual & Team Sports classes. These courses are designed to allow students to engage in daily physical activity to maintain and improve their fitness levels. Activities that are possible include tennis, volleyball, pickleball, badminton, frisbee, flag rugby, softball, and aerobic team sports. Students will not be allowed to enroll in Individual & Team sports during the same semester as Weight Training, Health & Safety, or Personal Fitness.

Weight Training 10-12.....Cr .5 Grades 10-12
Prerequisite: "C" or above in previous PE class to take for elective credit.
An elective co-ed physical education, one-semester course which concentrates on various muscle groups to enhance body composition and body image. Emphasis will be on muscular strength, muscular endurance, aerobic conditioning, agility, and flexibility. Four days per week will be spent lifting weights and one day will be used for alternate activities. Strength gains will be tested at the beginning, middle, and end of each semester. This class does not fulfill the Individual & Team Sports class. All students must have passed Individual & Team Sports in order to take Weight Training. Students will not be allowed to enroll in Weight Training during the same semester as Individual & Team Sports, Health & Safety, or Personal Fitness.

Personal Fitness.....Cr. 5 Grades 10-12
Prerequisite: "C" or above in previous PE class to take for elective credit.
This one-semester class is an elective class for grades 10-12 only. It does not fulfill the Individual & Team Sports required class. Students must have passed Individual & Team Sports to take Personal Fitness. Personal Fitness is a class that is focused on all aspects of fitness (cardio respiratory endurance, muscular strength, flexibility, muscular endurance, and body composition) to improve student's fitness levels and provide them with lifelong knowledge of exercising. Students will be introduced to new fitness techniques and crazes as well as older fitness techniques and crazes. Activities will include aerobic fitness, weight circuit training, Yoga, aerobic games, core strengthening, jump roping, self-defense, P90X, Insanity, and other activities as they become accessible. Students will not be allowed to enroll in Personal Fitness during the same semester as Weight Training, Health & Safety, or Individual & Team Sports.

Lifetime Activities..... Cr .5 Grades 11-12
Prerequisites: Individual and Team Activities and an A or B in previous PE class. Written approval from teacher is required.
This class will be an advanced course that allows students to take a physical education course beyond our Individual & Team Activities class. This class is designed for students that may be interested in a physical education career, or are striving for competitive activities. Activities in this class may include pickleball, badminton, frisbee golf, golf, fly fishing, orienteering, archery, softball, and fitness testing. Students will also have leadership roles in which they will be able to work together to develop tournaments in their activities, referee games in class, and set up practice drills for their teams to increase skill

development. We want students to begin taking more personal responsibility for their activity levels and become leaders in physical education.

SCIENCE

Physical Science.....Cr 1 Grade 9
This year-long class is designed to provide foundational concepts and skills, which are common to all of the sciences, but most specifically to those that deal with matter and energy. Students will develop their ability to think scientifically through the application of scientific methods and procedures, laboratory techniques, data collection and analysis, and analytical techniques. They will also further their understanding in the four core ideas in the physical sciences (Matter and its Actions; Motion and Stability; Forces and Interactions; Energy; and Waves and Their Applications in Technologies for Information Transfer).

Biology.....Cr 1 Grades 10 -12
Students will gain knowledge of the following themes: Ecology, Cells, Genetics and Evolution in this year-long course. Labs and fieldwork is required.

AP Biology.....Cr 1 Grades 11-12
Prerequisite: "C" 75% or better in Biology and Algebra II (or concurrent enrollment)
Required: Chemistry or per teacher approval
This course is structured as a fast-paced, college level course. Due to the volume and level of the materials, as well as, the prep for the AP Examination, this course is designed to challenge extremely motivated students who have a strong interest in the biological sciences. Students must have the discipline to work independently outside of regular class time. Topics include: 1) Chemistry of Life where students learn about water's role as a basis of life and the functions of macromolecules like lipids and proteins. 2) Cell Structure and Function where students study the makeup of cells and the fundamentals of evolution. 3) Cellular Energetics where students explore how cells interact with their environment and how fundamental biological processes work at the cellular level. 4) Cell Communication and Cycle where students learn how cells grow and reproduce, as well as how cells communicate. 5) Hereditary where students learn how traits are passed down from one generation to the next. 6) Gene Expression and Regulation to study how hereditary information passed from parent to offspring and how these traits are expressed. 7) Natural selection where students learn about Darwin's theory and the concept of natural selection, and evolution. 8) Ecology where students explore biological concepts at a broader organism level and analyze how populations interact within ecosystems.

Aquatic Biology.....Cr 1 Grades 11-12
Semester 1: Freshwater Bio, Semester II: Saltwater Bio
Prerequisite: Biology.
A year-long course concerned with all forms of water life and physical water characteristics. Plant and animal structure, identification, habitat, water quality and pollution are covered. The first semester is not needed for the second but the material implies a continuation of information.

Human Anatomy and Physiology.....Cr 1 Grades 11-12
Prerequisite: Biology with a 75% or better; Concurrent Enrollment option through Sheridan College Zoology 1200
This is a year long course is designed to give the student an appreciation of the complexity of the human body through an in-depth study of the systems and their functions. Lecture and experimental activities, as well as dissection will be incorporated in the examination of these systems. The first semester will lay the foundation of learning with histology, musculoskeletal, nervous and respiratory systems. The second semester will include the cardiovascular, digestive, lymphatic/immune, endocrine and male/female reproductive systems. Guest speakers and field trips are frequent.

Chemistry.....Cr 1 Grades 10-12
Prerequisite: Algebra I
A one-year course in which students study fundamental concepts of chemistry including atomic structure, reactions, thermochemistry, acids/bases, and electrochemistry.. It will also provide a good background for further study of medicine, nursing, engineering, and other science-related majors. This course includes a lab fee for chemicals and supplies.

AP Chemistry.....Cr 1 Grades 11-12
Prerequisite: Chemistry.
Recommended: Algebra II before or concurrently.
This year-long course is designed to be equivalent to two semesters of a first year General Chemistry course at a university. Topics covered are atomic structure, molecular bonding, intermolecular forces, reaction kinetics and equilibrium, acid/base chemistry, and thermodynamics. The course will also include an introduction to organic chemistry. There is a lab fee for chemicals and supplies.

Earth Science: a Geological Inquiry.....Cr 1 Grades 11-12
This class is for the student who learns best through labs and related investigations. The year-long course is divided into several fields of study. The first semester and part of the second semester covers physical geology. Physical geology involves the disciplines of hydrology (earth's water systems), cartography (mapping), earth structure and movement (rock and soil formation/type, earthquakes, volcanoes, and plate tectonics). The remaining part of second semester covers historical geology (fossil/rock records and fossil preparation, oceanography, meteorology, and astronomy (time permitting).

Physics.....Cr 1 Grades 10-12
Prerequisite: Algebra I
Physics 1 is a traditional high school Physics class which is a broad survey of the big ideas and concepts of Physics including force, linear motion, Newton's Laws, energy, momentum, non-linear motion, waves, and harmonic motion, light and optics, and electricity and magnetism. Conceptual in nature, and heavily lab-based, this is a good course for students who are contemplating a career that would require a background in Physics, but not necessarily an in-depth ability to solve complex Physics problems. Examples of these fields include medicine, electrician, nursing, architecture, plumbing, ecology, construction,

mechanics, sports medicine, law, biology, chemistry, teaching, professional writing, computer science, archeology, music, energy development, mining, agriculture, and forestry. Physics does not require a strong math background. Any math required is taught as part of the course and is used primarily for data analysis in the lab.

AP Physics I.....Cr 1 Grades 11-12
Prerequisite: Completed Algebra I with "C" or better
All of the natural laws that govern geology, biology, chemistry, meteorology, oceanography, and astronomy form the topics we'll study in Physics, a year-long class. These topics include motion, force, mechanics, energy, momentum, and rotation.. Studying nature through the eyes of a physicist, you'll come to appreciate the elegant and mathematical nature of our universe as you develop your thinking, reasoning and analytical skills. AP Physics I is designed to be equivalent to the first semester of first-year college, Algebra-based Physics. Instruction will utilize a balance of demonstrations, multimedia, experiments and lecture.

AP Physics II.....Cr 1 Grades 11-12
Prerequisite: AP Physics I <u>OR</u> General Physics and Algebra II
Building off of the concepts that are introduced in a first year of physics, AP Physics II is a year-long class that will continue to evaluate the functioning of the world around us. AP Physics II takes an in depth look at fluid mechanics, thermodynamics, electricity and magnetism, geometric and physical optics, and modern physics (quantum, atomic and nuclear physics). Studying nature on both the microscopic and macroscopic level, you'll come to appreciate the elegant and mathematical nature of our universe as you develop your thinking, reasoning and analytical skills. AP Physics II is designed to be equivalent to the second semester of first-year college, Algebra-based Physics.

AP Environmental Science.....Cr 1 Grades 11-12
Prerequisite: Biology; Recommended: Chemistry I
AP Environmental Science is a year-long course designed 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 man-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from Biology, earth and atmospheric sciences, Physics, Chemistry, and natural resources. The course's interdisciplinary context will always stress consideration of people and how they have influenced the systems under consideration. Lab Fee Required - TBD

Seminar Biology.....Cr 1 Grade 10
Prerequisite: "C" 75% or better in Seminar Physical Science
This course addresses the same standards as General Biology. It is designed for students who have demonstrated strong aptitude in science and are curious and motivated to work towards deepening their critical thinking and problem-solving skills in an inquiry environment. The students will investigate biological themes using their understanding of science and engineering practices, and crosscutting concepts from earlier grades through these four life science disciplinary core ideas in Biology: 1) Ecology, 2) Cells, 3) Genetics, and 4) Evolutionary Theory. Additionally, this course will challenge students to develop biological models, think at a deep level, solve problems collaboratively, and overcome challenges.

Seminar Physical Science.....Cr 1 Grade 9
Prerequisite: Teacher Recommendation
This course addresses the same standards as General Physical Science but is designed for students who have demonstrated strong aptitude in science and are motivated to work toward depth in understanding of the four core ideas in the physical sciences (Matter and its Actions; Motion and Stability: Forces and Interactions; Energy; and Waves and Their Applications in Technologies for Information Transfer). Students in this course will actively participate in planning and conducting investigations, analyzing data, and using models to construct explanations. The course places great emphasis on the mastery of scientific methods and procedures, data analysis and interpretation, and laboratory techniques.

SOCIAL STUDIES

World History 9.....Cr 1 Grade 9
This course is designed to provide a cursory glance at the progression of history of each area of the world. Topics of study include Europe, Russia, Northeast Asia, Southeast Asia, the Middle East, South America, Africa, Australia, and North America. Embedded in the curriculum are case studies that focus on the geography, history, culture, and 21st century issues of each region. Individual and group research projects, discussions, simulations, and lectures are simultaneously woven into the class structure and pacing.

Accelerated World History.....Cr 1 Grade 9
This course is designed to provide a cursory glance at the progression of history of each area of the world. Topics of study include Europe, Russia, Northeast Asia, Southeast Asia, the Middle East, South America, Africa, Australia, and North America. Embedded in the curriculum are case studies that focus on the geography, history, culture, and 21st century issues of each region. Individual and group research projects, discussions, simulations, and lecture are simultaneously woven into the class structure and pacing. This class is not a prerequisite for Advanced Placement course. This course will, however, work on skills for AP classes, which will be practiced extensively throughout the year.

American History.....Cr 1 Grade 10
Prerequisite: World History or Accelerated World History
This course studies the cultural, social, and political changes of the 20th Century and follows with links to topics that affect Americans in the 21st Century.

AP U.S. History.....Cr 1 Grades 10-12
Prerequisite: World History or Accelerated World History
AP United States History is a comprehensive survey course of U.S. History from the period of discovery and settlement of the new world to the recent past. The course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and resources in U.S. History. **Please note this is a college level class requiring college level reading and writing.**

AP U.S. Government & Politics.....Cr 1 Grades 11-12
Prerequisite: American History or AP U.S. History
This is a comprehensive course that takes an in-depth look at the U.S. government. It will combine all of the elements required in the regular American Government class including the historical development of our Constitution, the basic principles found in the Constitution, and the structure of our government with the analytical skills necessary to deal critically with the issues currently facing our government, as well as the study of Economics. Students in this course also participate in the "We the People" competition.

American Government .....Cr 1 Grades 11
Prerequisite: American History or AP U.S. History
This course covers topics related to the study of American Government. This includes the historical development of the U.S. Constitution, the parts and purposes of the U.S. Constitution, the guiding principles of the government found within the U.S. Constitution, the branches of our government, the Amendments to our Constitution, the Wyoming state government, the study of Native American governance with particular focus on tribal sovereignty, and the study of Economics.

Psychology.....Cr .5 Grade 10-12
This introductory course in psychology includes such topics as current approaches in psychology, the workings of the mind and body, learning and cognitive processes, personality and individuality, adjustment and breakdown, and social psychology. This course will study today's major theories and the psychologists that influence the science.

AP Psychology.....Cr .5 Grade 10-12
Prerequisite: Regular psychology may be taken prior to this class but not following it. Advanced Placement Psychology is offered only during the second (2nd) semester.
It is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within the study of psychology.

Frontier History.....Cr .5 Grades 10-12
This one-semester course studies Wyoming and the West from Lewis and Clark to Owen Wister's *The Virginian*. The class includes the following topics: mountain men, land acquisitions, overland trails, mining and farming on the frontier, Native American conflicts, cattle barons, the myths of the west, and statehood. Emphasis is placed on how these various topics altered and shaped the west into what it is today.

Sociology.....Cr .5 Grades 11-12
This basic introductory sociology course is designed to introduce students to the various groups and influences of groups in our society. It will define society and culture, examining the social structure and the institutions of family, religion, government, economics, and education. Socialization, social change, and social problems will complete the one-semester class and political factors that influence historic events.

The following classes will be offered in 2023-2024:

Street Law.....Cr .5 Grades 10-12
Street Law is designed to provide practical knowledge and problem solving opportunities to assist students in the understanding of laws and practices of law in our society. Based on a very popular, nationally known curriculum; the course will include criminal and civil case studies, simulations, and community involvement; and it will give students a better understanding of numerous legal issues such as criminal and juvenile justice, citizen's rights, family law, and constitutional law.

World History: Western Civilizations.....Cr .5 Grades 10-12
This course focuses primarily on early European history. Topics include Paleo and Neolithic man, ancient Western civilizations, the Greeks, the Romans, and the Middle Ages. Emphasis is placed upon the interrelationships among social, economic, geographic and political factors that influence historic events.

SPECIAL PROGRAMS

Credit Recovery……Cr. .5 Grades 9-12
Required: Counselor permission.
This is a class for students behind in credit. This is an independent study course that offers credits in a range of different subjects. Work is completed through written and computer courses.

English as a Second Language (ESL).....Cr. 1 Grades 9-12
Prerequisite: Limited English proficiency as documented by assessment.
This program is designed to develop English skills in listening, speaking, reading, and writing for those students whose first language is not English. Students will build vocabulary and background knowledge related to language, as well as other content areas. They will also study sounds, practice grammatical structures, learn reading strategies, and write in different contexts. Linguistic, social, and cultural differences and issues will be addressed as they arise. Class is offered on an as needed basis.

Next Level Internships.....Cr 1 per semester Grade 12
Internships are capstone experiences for senior students that involve further study in the field or career cluster where the student has a career interest. Internships may be paid or unpaid. Students have a two-period block set up during the school day to attend the training. Goals are set

cooperatively by the student, teacher, and employer. Students accepted into the program must have at least a 3.0 GPA, apply to the program with two letters of recommendation, interview with both the school internship coordinator and internship site supervisor, and complete a final project.

Next Level Work Experience.....Cr .5 per semester Grade 12
This program provides the opportunity for seniors to earn school credit while working in the Sheridan community. Employment must be verified before enrollment. Students are required to attend a work-related seminar each Tuesday before school or during lunch. Students must work a minimum of 120 hours per semester. Job evaluations and timesheets will be required from the employer. Pass/Fail only.

Adaptive P.E. Peer Assistant 11-12.....Cr .5 Grades 11-12
Prerequisite: "C" or above in previous PE class to take for elective credit. Written approval from teacher is required.
Peer assistants work daily with a special needs partner in a physical education setting. Peer assistants will strive to improve their partner fitness levels, sport skill levels, body composition and general quality of life. Peer assistants will work to help their partner reach specific physical education IEP goals. This class does not fulfill a Physical Education credit.

INDEPENDENT STUDY.....Cr .5 - 1 Grades 10-12
Prerequisite: Permission of the teacher involved.
One or two semesters. Each department may offer an opportunity for independent study. Independent Study can only take place when a course is not part of the regular curriculum, or if a conflict in the student's schedule prevents them from taking a course offered at SHS. Students must complete an application to request an independent study. Independent study applications must be approved by the principal and teacher of record, and require a contract signed by the student, the teacher, the parents, the counselor, and the principal, in which the requirements for the course are outlined.