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# INTRODUCTION TO STUDENTS AND PARENTS

This course guide contains many topics of interest to you. It includes graduation requirements, course descriptions, and enrollment guidelines.

Your counselor, principal and teachers are excellent resources regarding courses. Please consult them, your parents and others who are interested in helping you make plans for your future. Dakota Valley staff are committed to working closely with students and parents.

## DISTRICT MISSION

*The mission of Dakota Valley Schools is to ensure all students receive an enriched educational experience in a safe environment.*

## DAKOTA VALLEY HIGH SCHOOL VISION

*The vision of Dakota Valley High School is to graduate productive citizens who are lifelong learners.*

## NOTICE OF NON-DISCRIMINATION

Equal opportunity in programs and activities shall be provided to all students in the Dakota Valley Community School District regardless of race, creed, sex, national origin, marital status, or disability as required by Title II, Title VI, Title XI, Section 504 of the Rehabilitation Act of 1973, and the American Disabilities Act.

## GRADING SCALE

A+	99-100	B+	90-91	C+	81-82	D+	72-73
A	94-98	B	85-89	C	76-80	D	67-71
A-	92-93	B-	83-84	C-	74-75	D-	65-66

## GUIDELINES FOR ENROLLMENT

- All students in grades 9-12 must be enrolled in seven (7) courses per semester except the last semester of the 12<sup>th</sup> grade year. Seniors do not have to take (7) courses second semester if they have enough credits to graduate. However, if they wish to participate in extracurricular activities they must be enrolled in and passing at least 4 classes.
- To be eligible to participate in extracurricular activities a student must pass (4) academic classes the previous semester and be passing at least 6 classes at each grading period (progress report, quarter, semester).

Dr. Jerry Rasmussen  
Superintendent

Erik Sommervold  
Principal

Heather Welch  
Counselor

## DAKOTA VALLEY GRADUATION REQUIREMENTS FOR CLASS OF 2019

Students must successfully complete each grade level, and complete all the required courses of study prior to graduation as determined by the South Dakota State Board of Education and the Dakota Valley School Board.

1 CREDIT = 2 SEMESTERS

<b>TOTAL CREDITS FOR GRADUATION</b>	<b>23 CREDITS</b>
<b>LANGUAGE ARTS</b>	<b>4 CREDITS</b>
1 credit—Freshmen English/Speech	
1 credit—Sophomore Literature/Sophomore Writing	
1 credit—American Literature/Creative Writing	
1 credit—Senior English or Advanced Literature	
<b>MATHEMATICS</b>	<b>3 CREDITS</b>
1 credit—Algebra 1	
1 credit—Geometry	
1 credit—Algebra 2	
*Students can waive either Geometry or Algebra 2 with administration approval	
<b>SCIENCE</b>	<b>3 CREDITS</b>
1 credit—Physical Science	
1 credit—Biology	
1 credit—Chemistry or Physics	
*Students can waive Chemistry/Physics with administration approval	
<b>SOCIAL STUDIES</b>	<b>3 CREDITS</b>
1 credit—World Geography/World History	
1 credit—American History	
.5 credit—American Government	
.5 credit—Social Studies Elective (Psychology, Modern America, Sociology)	
<b>FINE ARTS</b>	<b>1 CREDIT</b>
<b>PHYSICAL EDUCATION</b>	<b>.5 CREDIT</b>
<b>BUSINESS EDUCATION</b>	<b>.5 CREDIT</b>
<b>APPROVED CTE or FOREIGN LANGUAGE COURSE</b>	<b>1 CREDIT</b>
<b>HEALTH (Class of 2018 and after)</b>	<b>.5 CREDIT</b>
<b>ELECTIVES</b>	<b>6.5 CREDITS</b>

### REGENT SCHOLAR REQUIREMENTS

In order to be nominated for a Regents Diploma, a graduating senior from a South Dakota high school must have completed all high school courses listed below with no final grade below a “C” and an overall grade point average of a “B” (3.0 on a 4.0 scale). The Diploma must be requested by the high school’s administrator.

<b>LANGUAGE ARTS</b>	<b>4 CREDITS</b>
<b>MATHEMATICS</b>	<b>4 CREDITS</b>
Must include Algebra and higher (Geometry, Algebra II, Trig & Pre-Calculus, Calculus)	
<b>SCIENCE</b>	<b>4 CREDITS</b>
Must include 3 credits of approved laboratory science (Physical Science, Biology, Environmental Science, Chemistry, Physics, Advanced Biology)	
<b>SOCIAL STUDIES</b>	<b>3 CREDITS</b>
<b>FINE ARTS</b>	<b>1 CREDIT</b>
<b>FOREIGN LANGUAGE</b>	<b>2 CREDITS</b>
<b>BUSINESS EDUCATION</b>	<b>0.5 CREDITS</b>
<b>PHYSICAL EDUCATION</b>	<b>0.5 CREDITS</b>
<b>HEALTH</b>	<b>0.5 CREDITS</b>

## DAKOTA VALLEY GRADUATION REQUIREMENTS FOR CLASS OF 2020-2022

Students must successfully complete each grade level, and complete all the required courses of study prior to graduation as determined by the South Dakota State Board of Education and the Dakota Valley School Board.

1 CREDIT = 2 SEMESTERS

<b>TOTAL CREDITS FOR GRADUATION</b>	<b>23 CREDITS</b>
<b>LANGUAGE ARTS</b>	<b>4 CREDITS</b>
1 credit—Freshmen English/Speech	
1 credit—Sophomore Literature/Sophomore Writing	
1 credit—American Literature/Creative Writing	
1 credit—Senior English or Advanced Literature	
<b>MATHEMATICS</b>	<b>3 CREDITS</b>
1 credit—Algebra 1	
1 credit—Geometry	
1 credit—Algebra 2	
*Students can waive either Geometry or Algebra 2 with administration approval	
<b>SCIENCE</b>	<b>3 CREDITS</b>
1 credit—Earth Science	
1 credit—Chemistry or Physics	
1 credit—Biology	
*Students can waive Chemistry/Physics with administration approval	
<b>SOCIAL STUDIES</b>	<b>3 CREDITS</b>
1 credit—World Geography/World History	
1 credit—American History	
.5 credit—American Government	
.5 credit—Social Studies Elective (Psychology, Modern America, Sociology)	
<b>FINE ARTS</b>	<b>1 CREDIT</b>
<b>PHYSICAL EDUCATION</b>	<b>.5 CREDIT</b>
<b>BUSINESS EDUCATION</b>	<b>.5 CREDIT</b>
<b>APPROVED CTE or FOREIGN LANGUAGE COURSE</b>	<b>1 CREDIT</b>
<b>HEALTH (Class of 2017 and after)</b>	<b>.5 CREDIT</b>
<b>ELECTIVES</b>	<b>6.5 CREDITS</b>

### REGENT SCHOLAR REQUIREMENTS

In order to be nominated for a Regents Diploma, a graduating senior from a South Dakota high school must have completed all high school courses listed below with no final grade below a “C” and an overall grade point average of a “B” (3.0 on a 4.0 scale). The Diploma must be requested by the high school’s administrator.

<b>LANGUAGE ARTS</b>	<b>4 CREDITS</b>
<b>MATHEMATICS</b>	<b>4 CREDITS</b>
Must include Algebra and higher (Geometry, Algebra II, Trig & Pre-Calculus, Calculus)	
<b>SCIENCE</b>	<b>4 CREDITS</b>
Must include 3 credits of approved laboratory science (Physical Science, Biology, Environmental Science, Chemistry, Physics, Advanced Biology)	
<b>SOCIAL STUDIES</b>	<b>3 CREDITS</b>
<b>FINE ARTS</b>	<b>1 CREDIT</b>
<b>FOREIGN LANGUAGE</b>	<b>2 CREDITS</b>
<b>BUSINESS EDUCATION</b>	<b>0.5 CREDITS</b>
<b>PHYSICAL EDUCATION</b>	<b>0.5 CREDITS</b>
<b>HEALTH</b>	<b>0.5 CREDITS</b>

# **SOUTH DAKOTA OPPORTUNITY SCHOLARSHIP REQUIREMENTS**

**The South Dakota Legislature established requirements that all South Dakota high school graduates must meet in order to establish their initial eligibility in the Opportunity Scholarship program. These requirements specify that a recipient must:**

1. Be a resident of South Dakota a time of high school graduation.
2. Have an ACT composite score of 24 or higher before the beginning of post-secondary education.
3. Complete high school course requirements with no final grade below a “C” and a cumulative GPA of 3.0 on a 4.0 scale prior to graduation.
  - a. English—4
  - b. Math—4
  - c. Science—4
  - d. Social Studies—3
  - e. Fine Arts—1
  - f. Foreign Language and/or CTE—2
  - g. PE--.5
  - h. Business Education--.5
  - i. Health--.5
4. Effective for those students entering into postsecondary education for the first time on or after August 2013, the curriculum requirements specified in section 3 above are not required for any student who has received a composite score of at least 28 and meets the ACT college readiness benchmarks scores equaling or exceeding 18 for English, 21 for Reading, 22 for Math, and 24 for Science
5. Attend a university, college or technical school accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools and that provides instruction from a campus located in South Dakota.
6. Enter into the program within 5 years of high school graduation or within 1 year of the student’s release from active duty military service.

## BUSINESS EDUCATION

### 0.5 credit required

Course Name	Credit	Prerequisite	Grade
Economics	0.5	None	11-12
Personal Finance	0.5	None	11-12

#### **ECONOMICS** (1 semester)

**Credit:** 0.5

**Elective/Required:** Required

**Grade Level:** 11-12

**Course Description:** This course will examine how individuals, businesses, and governments decide to use limited material resources to satisfy their many desires. This course will help students understand how economics affects their personal, career, and financial choices, and in turn, students will be able to make well-informed decisions and choices as adults and future citizens. Students will evaluate, predict and describe how economics influences choices, the impact of supply and demand on prices, and the role of the government in a market economy. Economics may be used to fill EITHER a social studies elective requirement or the Personal Finance/Economics graduation requirement.

#### **PERSONAL FINANCE** (1 semester)

**Credit:** 0.5

**Elective/Required:** Required

**Grade Level:** 11-12

**Course Description:** Focuses on the students' roles as a citizen, student, family member, consumer, and active participant in the business world. Discovering new ways to maximize earning potential, develop strategies for managing resources, explore skills for the wise use of credit, and gain insight into different ways of investing money.

## CAREER & TECHNICAL EDUCATION COURSES

### 1 credit required of CTE OR Foreign Language

### **BUSINESS**

Course Name	Credit	Prerequisite	Grade
Accounting I	1	None	9-12
Accounting II	1	Accounting I	10-12
Business Law	0.5	None	9-12
Career Exploration	0.5	None	9-12
Entrepreneurship	0.5	None	9-12

#### **ACCOUNTING I** (2 semesters)

**Credit:** 1

**Elective/Required:** Elective

**Grade Level:** 9-12

**Course Description:** Accounting involves maintaining accounting records for individuals or a business. The course includes the planning of how to record, how to summarize, and how to analyze financial records to further improve a financial situation. This course develops an understanding of the steps in accounting cycle, and understanding of accounting system, and the managerial use of accounting problems in the textbook. Also, automated computer accounting is used to solve accounting problems in two accounting simulations.

#### **ACCOUNTING II** (2 semesters)

**Credit:** 1

**Elective/Required:** Elective

**Grade Level:** 10-12

**Course Description:** Accounting II is an elective course intended for students with determined career objectives in the field of business or in the accounting profession. This second-year course is designed for students who want: (1) to become accounting clerks upon graduation from high school; (2) to obtain the accounting skills necessary to advance to the level of bookkeeper following experience as an accounting clerk; (3) to go on to college and major in accounting or some phase of business; or (4) to broaden and improve their knowledge, understanding, and application of accounting principles. At this level, the complete accounting cycle is mastered, and students learn more advanced, complex accounting principles. Using manual and computer skills, students perform accounting tasks for merchandising businesses organized as partnerships and corporations.

#### **BUSINESS LAW** (1 semester)

**Credit:** 0.5

**Elective/Required:** Elective

**Grade Level:** 9-12

**Course Description:** Business Law traces a brief historical development of law and covers procedures followed in both the state and federal court systems. This course includes the study of law of contracts, employment contracts, employee protection and equal opportunity laws, employment practices and duties of employment, borrowing money and buying on credit, writing checks, starting a business, buying property, types of insurance, and different regulatory agencies.

**CAREER EXPLORATION** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This course will offer professional opportunities to high school students and may involve job shadow. The student will be given guidance and class training in the following areas: interviewing, resumes, and recommendations. Students will complete units on problem solving, self-management skills, teamwork, identifying career paths, and job seeking.

**ENTREPRENEURSHIP** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade level:** 9-12

**Course Description:** Students will learn how to be an entrepreneur, a person who owns a business enterprise. Simulations and hands on applications will be used to learn about the risks and benefits of business ownership. The focus will be on developing business plans related to the interests of the students.

**FAMILY & CONSUMER SCIENCE**

Course Name	Credit	Prerequisite	Grade
Child Development	0.5	None	9-12
Fashion Design	0.5	None	9-12
Food and Nutrition	0.5	None	9-12
Introduction to Culinary Arts I	0.5	None	9-12
Introduction to Culinary Arts II	0.5	Intro. to Culinary Arts	9-12

**CHILD DEVELOPMENT** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** Students will study prenatal care, infants, and toddlers. They will discover the child's developmental needs and interests while learning how to be caregivers, teachers, and parents. They will observe and assist in the healthy development of this age range. Discussion topics include decision making process, conception and contraception, the birth process; and the physical, intellectual, emotional and social development of newborns, infants, and toddlers.

**FASHION DESIGN** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This course is an individualized program for students interested in sewing for themselves and others. They will select projects suitable to their ability and interests. Students will work at their own pace as projects and time lines will be negotiated and contracted. Careers in fashion and the fashion industry will be explored.

**FOOD AND NUTRITION** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** Students explore the concepts in wellness and nutrition, healthy eating habits, kitchen principles and food preparation. Students will demonstrate recipe skills, proper measuring procedures, consumer skills, budgeting, and food preparation skills. Food preparation techniques will be practiced in food labs.

**INTRODUCTION TO CULINARY ARTS I** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This is a one semester course that views food through the lens of the restaurant industry. Students will study the basic cooking techniques, knife skills and food preparation methods needed to be successful in a professional setting. They will have the opportunity to practice these skills in laboratory experiences. Topics covered may include: food safety and sanitation; standardized recipes and measurement; meat and poultry; eggs; soups and stews; sandwiches and pizza; salads and dressings; and pies, tarts, and candies.

**INTRODUCTION TO CULINARY ARTS II** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12**Prerequisite:** Culinary Arts I

**Course Description:** In this course we will build on the knowledge learned in Intro to Culinary Arts. Students will learn to prepare breakfast foods, desserts and baked products, poultry & seafood, global cuisines, and advanced plating and presentation techniques in labs. Other topics include business practices in the hospitality industry, nutrition, menu planning and marketing.

# INDUSTRIAL TECHNOLOGY

Course Name	Credit	Prerequisite	Grade
Introduction to Drafting	0.5	None	9-12
Mechanical Drawing/3D Modeling	0.5	None	9-12
Welding	0.5	None	10-12
Advanced Welding	0.5	Welding	10-12
Dual Credit Welding	0.5	Advanced Welding	11-12
Woods I	0.5	None	9-12
Woods II	0.5	Woods I	9-12
Woods III	0.5	Woods II	10-12

## INTRODUCTION TO DRAFTING (1 semester)

**Credit:** 0.5

**Elective/Required:** Elective

**Grade Level:** 9-12

**Course Description:** This course will have a strong emphasis on geometric construction. This course will also cover the drafting basics like orthographic projection (top, front and right-side), sectional views, auxiliary views, dimensioning, isometric (3D) drawings, and drafting standards. This course is great for those students who like to work with their hands, using computers, drawing or who are very detail oriented. This course is also a great option for those students who have career aspirations in design, engineering, architecture or any technical field.

## MECHANICAL DRAWING AND 3D MODELING (1 semester)

**Credit:** 0.5

**Elective/Required:** Elective

**Grade Level:** 9-12

**Course Description:** In this course the students will be creating, assembling, testing, and portraying their creations into orthographic drawings using a 3D modeling program called SolidWorks. Students will be introduced to tools and methods used by a skilled draftsman and engineers. This is a perfect course for those who are interested in how things are put together, engineering, creating parts, or working with computers.

## WELDING (1 semester)

**Credit:** 0.5

**Elective/Required:** Elective

**Grade Level:** 10-12

**Course Description:** Students in this course will learn the basic welding techniques for SMAW (Arc 6013, and 6011), GMAW (MIG), and Oxy-Acetylene. Students will be producing various welds in each of those three categories. Students will learn how to safely operate all the machines, cut and prepare the metal for welding, and welding various joints. Welding is a great skill to have not only for those who have career interests but for others who can use it as a hobby or to be able to fix metal objects around a house.

## ADVANCED WELDING (1 semester)

**Prerequisite:** Welding

**Credit:** 0.5

**Elective/Required:** Elective

**Grade Level:** 10-12

**Course Description:** Students in this course will build off the basic welding techniques for SMAW (6013, and 6011), GMAW, that was learned in Welding I by learning how to weld in the 2G (horizontal) and 3G (vertical) positions. Students will also learn how to GTAW weld doing the various joinery learned from Welding I. This course will also go into the metallurgy of the metal, as well as welding symbols.

## WOODS I (1 semester)

**Credit:** 0.5

**Elective/Required:** Elective

**Grade Level:** 9-12

**Course Description:** In this class students will be learning how to work with tools safely. The students will learn how to properly use stationary power tools (ex. Table saw, miter saw) as well as hand tools (ex. Router, orbital sander). Students will learn all the steps it takes to complete a project from cutting the first board to putting the last coat of polyurethane on. Students who wish to take this class might have an interest in working with their hands, constructing, using tools, or eager to learn a new skill set. Students will be creating two projects over the course of the semester. Students who take this class will have to purchase the materials for their individual projects. There are two required projects and the typical costs of these two projects are between \$60 and \$80 for both of them.



**WOODS II** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12**Prerequisite:** Woods I

**Course Description:** Woods II builds on what students previously learned in Woods I. Woods II will emphasize the design process that it takes to complete a project. The students will be making their own plans for a project they wish to construct. The only requirement for the project is that they must incorporate a door or drawer into their plans for the project. With these skills students learned from both Woods I and Woods II, students will be able to pursue various careers in construction and also will be able to fix many little household problems. Students who take this class will have to purchase the materials for their individual projects. Projects vary by student interest, but typical costs are between \$50 and \$200. The price varies due to the size and wood the students make their project out of.

**WOODS III** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 10-12**Prerequisite:** Woods II

**Course Description:** Woods III is a continuation of the Woods II course. This course is intended for those who choose to build a project that will take longer than one semester, or those who want to explore woodworking further. Stationary, and portable power tools are the focus of this area of instruction, as well as how to use them safely. The class is intended to broaden the scope of understanding of typical woodworking, and joinery is stressed. Each student will leave with a portfolio that details the construction of their project from start to finish. Students who take this class will have to purchase the materials for their individual projects. Projects vary by student interest, but typical costs range between \$50 and \$200. The price varies due to the size and species of wood the students choose to make their project out of.

**STEM/ INFORMATION TECHNOLOGY**

<b>Course Name</b>	<b>Credit</b>	<b>Prerequisite</b>	<b>Grade</b>
Audiovisual Design (Video Production)	1	None	10-12
Computer Programming	0.5	None	9-12
Mechatronics/Robotics	0.5	None	9-12
Advanced Mechatronics/Robotics	0.5	Mechatronics/Robotics	9-12
Mobile Apps IT	0.5	None	9-12
Video Game Design	0.5	None	9-12
Web Publishing and Design	1	None	9-12

**AUDIOVISUAL DESIGN (Video Production)** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 10-12

**Course Description:** The class will work with digital video cameras and video editing equipment to produce digital video projects. Students will learn how to create storyboards, which they will follow when they crop and trim footage in an effort to produce a professional product. They will also learn how to add voiceovers; music, sound effects, transitions and use special effects to enhance the finished product.

**COMPUTER PROGRAMMING** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This course is intended to give students a fun, hands-on introduction to object-oriented programming concepts using the Alice programming language.

**MECHATRONICS/ROBOTICS: Programming** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This course will use a hands on approach to introduce the basic concepts in robotics. The students will experiment with levers, pulleys, gears, gear ratios and basic locomotion. They will learn how to build basic robots using the LEGO Mindstorms' robotic kit. They will also learn basic programming and use it to control their robots. The goal of Robotics I is to teach the students the basic physical science applications, technology, engineering and math fundamentals.

**ADVANCED MECHATRONICS/ROBOTICS: Engineering** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12**Prerequisite:** Mechatronics/Robotics

**Course Description:** This course will use collaborative, hands on approach to introduce advanced concepts in robotics. Over the course of the semester, we will focus on building advanced robots designed to accomplish specific tasks; explore manipulators, such as forklifts, robotic arms, robotic claws, etc; and experiment with the practical use of electronic sensors, including touch, sound, distance and light. The students will broaden their knowledge of computer programming and its applications. The goal of Robotics II is to teach the students advanced physical science applications, technology, engineering, and math fundamentals.

**MOBILE APPS IT** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This project-oriented course examines the principles of mobile application design and development. Students will learn mobile application development on the Android platform. Mobile App:IT will expose students to a wide range of concepts and technical skills in six separate areas that will greatly help them succeed in the future. The skill areas include: Technical Skill; Creative, innovation and critical thinking; Communication and collaboration; Digital researching tools; Engineering, physics and math; Career, STEM and post-secondary education options

**VIDEO GAME DESIGN** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This course will be a hands on introduction to the process, design and creation of computer games and the gaming industry. Students will create a narrative for a game, storyboards to describe characters and interaction, analyze and describe the target market and platform and create a formal game design proposal. Students will develop their game designs through a prototype development cycle leading to a complete and user tested product using a development system that does not require traditional programming.

**WEB PUBLISHING AND DESIGN** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** The WWW is vastly changing the way we communicate the information. In this course, students will explore web page design as a way of communicating information. The elements of good design along with Hyper Text Markup Language (HTML) and other web publishing software will be the basis of this course. Students will learn how to: begin an HTML document, format text, format paragraphs, format pages, use color, graphics, prepare photos, create special effects/animations and graphics for the web, add sounds and movie files, and include other elements that add to an attractive and informative web page. An emphasis will be placed on utilizing the students design skills, creativity, and imagination when completing both teacher and student generated activities.

**LANGUAGE ARTS COURSES****4 credits required**

<b>Course Name</b>	<b>Credit</b>	<b>Prerequisite</b>	<b>Grade</b>
<b><u>Required:</u></b>			
Freshmen English	0.5	None	9
Speech	0.5	None	9
Sophomore Literature	0.5	None	10
Sophomore Writing	0.5	None	10
American Literature	0.5	None	11
Creative Writing	0.5	None	11
Advanced Literature	1	B- or better in all other English courses	12
<b><i>OR</i></b> Senior English	1	None	12
<b><u>Electives:</u></b>			
Newspaper	1	None	10-12
Yearbook	1	None	10-12
Reading	0.5-1	Instructor's recommendation	9-12

**FRESHMEN ENGLISH** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 9

**Course Description:** The purpose of this course is to strengthen and enhance personal reading and writing skills. The writing will focus on non-fiction writing, including writing a researched history paper. Reading activities will focus on reading for understanding of a variety of sources, both contemporary and classic and both fiction and non-fiction.

**SPEECH** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 9

**Course Description:** The ability to communicate well is essential in any successful pursuit. In this freshman level class, students will be shown the elements of effective communication from how to get over stage fright, to how to construct a powerful persuasive speech. This is a "hands-on" class which incorporates improvisation and team-building games to help students further their individual and group communication skills. Units covered include: How the Brain Works, Communication, Speaking and Listening, Intrapersonal Communication, Interpersonal Communication, Group Communication, Social-Ritual speaking, Informational Speech, Persuasive Speech, Parliamentary Procedure, Debate, and Oral Interpretation.

**SOPHOMORE LITERATURE** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 10

**Course Description:** This course is designed to reflect upon various forms of literature such as culturally related and classic novels. This course will focus on reflecting, discussing, and incorporating the material and vocabulary in association with the values of society.

**SOPHOMORE WRITING** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 10

**Course Description:** This writing course focuses on grammar and composition. The process of developing well-constructed sentences, paragraphs, and essays will be the overall focus for the semester. Various writing projects will be incorporated such as autobiographies, descriptive essays, and reaction papers. Various reading tools will be incorporated to ensure the whole language development.

**AMERICAN LITERATURE** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 11

**Course Description:** American Literature is a survey of the literature that we have produced as a nation and the ideas, philosophies, and literary movements that have brought us into the twentieth century. Course contents will include reading, discussion, and writing about the works of authors of American Literature. In addition to class study of numerous novels, students will be required to write a research paper.

**CREATIVE WRITING** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 11

**Course Description:** Creative Writing covers both the creative process and the writing process. The purpose of the course is to teach and allow for the application of writing skills selected from the following areas: descriptive writing, personal writing essay, drama, short story, and poetry. Class structure is a lab setting that supports the individual's writing process through independent work, peer editing, and teacher conference.

**ADVANCED LITERATURE** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 12

**Prerequisite:** American Literature and a B- or above in all other English courses

**Course Description:** The AP English Literature course is designed to engage students in the careful reading and critical analysis of imaginative literature. Students can deepen their understanding of the way writers use language to provide both meaning and pleasure to their readers. As the reader, students should consider a work's structure, style, and themes, as well as smaller-scale elements such as the use of figurative language, imagery, symbolism, and tone.

**SENIOR ENGLISH** (2 semesters)**Credit:** 1**Elective/Required:** Required**Grade Level:** 12

**Course Description:** This senior level class exposes students to World Literature in a project-based format. During the year, students will study plays and novels from British and Greek authors encompassing ancient, Victorian, and modern eras. Class members will also write in groups and individually. Writing styles include: a mini research paper, a novella, a play, workplace writing, and daily journaling.

**NEWSPAPER** (1-2 semesters)**Credit:** 0.5-1**Elective/Required:** Elective**Grade Level:** 10-12

**Course Description:** Students will take a hands-on approach to learning journalism. In this year-long course, staff will learn about journalistic ethics (the first amendment, court cases surrounding student journalism, libel, copyright, fair use, etc.), inverted pyramid structure, headline writing, caption writing, and newspaper design. Students will also learn the basics of photojournalism, and layout using the InDesign software. Near the end of the first semester, students will produce a monthly 8-page newspaper which will be distributed to the student body and staff members.

**YEARBOOK** (1-2 semesters)**Credit:** 0.5-1**Elective/Required:** Elective**Grade Level:** 10-12

**Course Description:** This two-semester class focuses on documenting the annual events of the high school through photojournalism and news writing. After learning about journalistic ethics, news writing, photography, and the principles of layout and design of publications, staff will construct the school's yearbook using Balfour Publishing's StudioWorks software. Students also occasionally produce videos for inclusion via a Quick Response Code in the yearbook. When time permits, an end of the year project is incorporated to cement learned design techniques.

**READING** (1-2 semesters)**Credit:** 0.5-1**Elective/Required:** Elective**Grade Level:** 9-12**Prerequisite:** Instructor's Permission

**Course Description:** Students apply a wide range of strategies to comprehend, interpret, evaluate, and appreciate texts. They draw on their prior experience, their interactions with other readers and writers, their knowledge of word meaning and of other texts, their word identification strategies. This does not fulfill the English graduation requirement but will count towards electives.

**FINE ARTS COURSES****1 credit required**

<b>Course Name</b>	<b>Credit</b>	<b>Prerequisite</b>	<b>Grade</b>
Art I	0.5	None	9-12
Art II	0.5	Art I	9-12
Art III	0.5	Art II	10-12
Art IV	0.5	Art III	10-12
Art V	0.5	Art IV	11-12
3D Design I	0.5	None	9-12
3D Design II	0.5	3D Design I	9-12
Band	1	Playing knowledge of a band instrument	9-12
Choir	1	None	9-12

**ART I** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This course is designed as a basic introduction to the visual arts. The Elements of Design are studied and explored. Exercises are created for students to apply the use of technique and skill to the Element in focus.

**ART II** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12**Prerequisite:** Art I

**Course Description:** This course is designed as a secondary level to the visual arts. The Principles of Design are studied and explored. Exercises are created that develop a deeper sense of technique and skill, building on Art I.

**ART III** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 10-12**Prerequisite:** Art II

**Course Description:** Using the Elements and Principles of Design as previously learned, students will learn compositional skills as they apply a mature understanding of design to their art. Exercises build upon foundational skills learned to create compositions that are engaging technically. Master artists are investigated and studied for style and technique application.

**ART IV** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 10-12**Prerequisite:** Art III

**Course Description:** Students will explore various media as well as continue to develop skills with a greater focus on subject matter, composition, and artistic expression. Master artists are investigated and studied for style and technique application where students can learn to create their own style of art.

**ART V** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 11-12**Prerequisite:** Art IV

**Course Description:** Students will work at an independent level with the art instructor to create a personalized curriculum based on their artistic goals (ex. Portfolio development for scholarship or college entrance, skill refinement, technique exploration...)

**3D Design I** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** This class is for those who enjoy working in the 3<sup>rd</sup> dimension and getting their hands dirty. Exploration of clay and sculptural materials are studied as students learn the history of this ancient and versatile art form. *Note- if you do not like being dirty, this is not the course for you.*

**3D Design II** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12**Prerequisite:** 3D Design

**Course Description:** This class is for those who would like to further their 3D technical skills. Exploration of clay and sculptural materials are studied as students learn the modern use of clay and sculptural art forms. *Note- if you do not like being dirty, this is not the course for you.*

**BAND** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 9-12**Prerequisite:** Playing knowledge of a band instrument

**Course Description:** Band includes many aspects of instrumental music. The main core of the class concentrates on concert band and the study of concert band literature. Other aspects of band include marching band, pep band, solo and ensemble work, and the opportunity to audition for All-State Band and a number of honor bands. The various ensembles perform a total of twenty-five to thirty times a year. Lessons are available at no cost to the student.

**CHOIR** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** Students should be able to demonstrate matched pitch voices qualities. Members of the chorus may audition for All-State, Solo, and Ensemble Contest. The students in Large Group Contest will participate in three concerts per year. Repertoire will be selected from a variety of choral literature. The purpose of this course is to provide students will advanced vocal music instruction and performance experience.

*\*Students may take and earn credit for Band and/or Choir all four years*

### FOREIGN LANGUAGE COURSES

#### 1 credit required of Foreign Language OR CTE

Course Name	Credit	Prerequisite	Grade
Spanish I	1	None	9-12
Spanish II	1	Spanish I	10-12
Spanish III	1	Spanish II	11-12
Spanish IV	1	Spanish III	12

**SPANISH I** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** Spanish I is an introduction to the Spanish culture. The students learn to converse about themselves, families, and friends in the present tense. The students will also be able to discuss their activities and hobbies by conjugating regular and stem-changing verbs and using direct and indirect object pronouns. A section on the Spanish culture accompanies each unit.

**SPANISH II** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 10-12**Prerequisite:** Spanish I

**Course Description:** Spanish II provides a more in depth study of the Spanish language and culture. The students will be able to communicate much more fluently in Spanish, as this course presents more complex vocabulary, sentence structure, reflexive, preterit, and imperfect and present progressive verb tense.

**SPANISH III** (2 semesters)**Credit:** 1**Elective/Required:** Elective**Grade Level:** 11-12**Prerequisite:** Spanish II

**Course Description:** The students will continue to improve their speaking ability in groups and also by speaking spontaneously. More stress will be placed on writing. Reading skills are developed by using supplementary materials. Introduction to the use of the Internet and basic journal writing will be used.

**SPANISH IV** (2 semesters)**Credit:** 1      **Elective/Required:** Elective**Grade Level:** 12**Prerequisite:** Spanish III**Course Description:** The students will continue to improve their speaking ability, writing ability, and reading skills. Students should be able to successfully carry on a conversation speaking Spanish. The use of the Internet and journaling will be used.**HEALTH****0.5 credit required**

Course Name	Credit	Prerequisite	Grade
Health	0.5	None	10-12

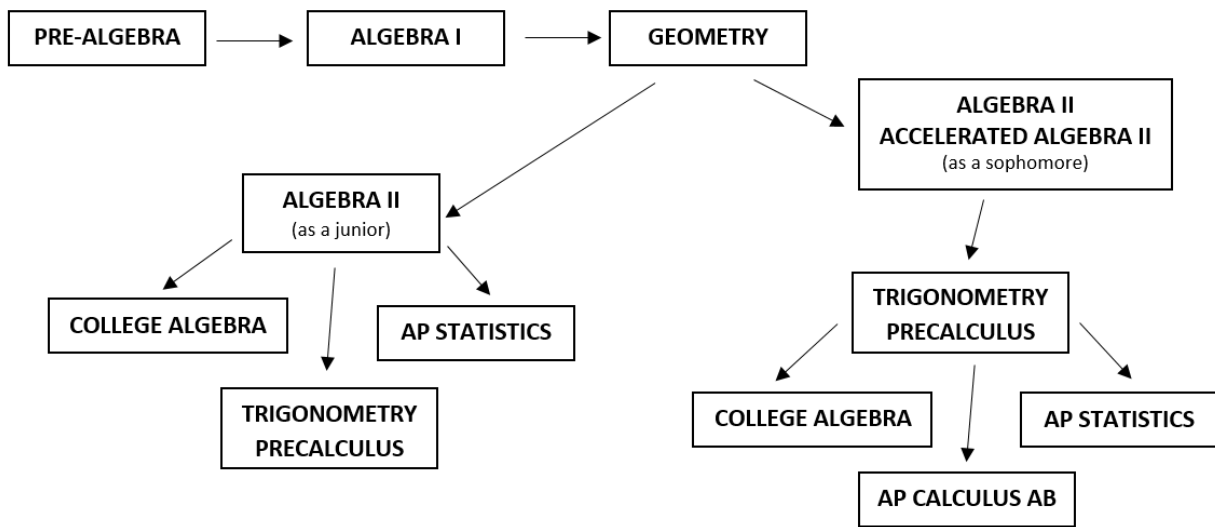
**HEALTH** (1 semester)**Credit:** 0.5      **Elective/Required:** Required      **Grade Level:** 10-12**Course Description:** This course will foster development of health related knowledge, attitudes, and skills in various areas such as community health, environmental health, family life, nutrition, physical activity, personal health practices, injury prevention and substance use and abuse.**HEALTH OCCUPATIONS****All classes are completed as Dual Enrollment with WIT**

Course Name	Credit	Prerequisite	Grade
Health Careers & Teams	0.5	None	10-12
Issues in Health & Society	0.5	None	11-12
Medical Terminology	0.5	None	11-12
Nurse Aide Theory	0.5	None	11-12
Nurse Aide Clinical	0.0	Concurrent with Nurse Aide Theory	11-12
Advance Nurse Aide	0.5	Nurse Aide Theory/Nurse Aide Clinical	11-12

**\*Course fees are determined by the size of enrollment in each class.****HEALTH CAREERS & TEAMS** (1 semester)**Credit:** 0.5      **Elective/Required:** Elective      **Grade Level:** 10-12**Course Description:** This course is designed to provide information on career options for individuals who are interested in pursuing a career in the healthcare industry. It includes the study of team dynamics and communication techniques necessary to work and succeed in the healthcare field. Students are given opportunities for career exploration through research and projects utilizing the internet and library databases. It also provides instruction in browsing the internet, using email, and other computer literacy tools necessary for taking online courses and for careers in the healthcare industry.**ISSUES IN HEALTH & SOCIETY** (1 semester)**Credit:** 0.5      **Elective/Required:** Elective      **Grade Level:** 11-12**Course Description:** This course presents an overview of current issues, concepts, and theories in health. It provides students with well-developed, carefully considered, and sharply opposed points of view on issues in health and society. This course provides both an overview of areas of conflict in health as well as ways of looking at the conflicts. The purpose of this course is to introduce a number of contemporary topics in order to illustrate how controversies are views from a healthcare perspective.**MEDICAL TERMINOLOGY** (1 semester)**Credit:** 0.5      **Elective/Required:** Elective      **Grade Level:** 11-12**Course Description:** This course presents medical terminology as the language of medicine. It studies spelling, pronunciation and usage, emphasis on word analysis and construction of definitions.**NURSE AIDE THEORY/ NURSE AIDE CLINICAL** (1 semester)**Credit:** 0.5      **Elective/Required:** Elective      **Grade Level:** 11-12**Course Description:** This course is designed to provide the student with the fundamentals of patient care in the health care environment. Students learn basic anatomy, physiology, medical terminology, meeting human needs, safety measures, infection control, and physical care.

**ADVANCE NURSE AIDE** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 11-12**Prerequisite:** Nurse Aide Theory & Nurse Aide Clinical **OR** documentation by a transcript or certificate of completion of an approved nurse aide course.**Course Description:** This course is designed as an optional additional unit of instruction to be given either in conjunction with or following the approved 75-hour Nurse Aide course. The 75-hour Nurse Aide course meets the OBRA (Nursing Home Reform) requirements for nurse aides who work in long term care. This additional material provides the learner with content emphasizing the knowledge, attitude and skills necessary for providing patient care in the acute setting.**MATHEMATICS COURSES****3 credits required**

<b>Course Name</b>	<b>Credit</b>	<b>Prerequisite</b>	<b>Grade</b>
Pre-Algebra	1	Instructor's Recommendation	9
Algebra I	1	None	9-12
Geometry	1	Algebra I	9-12
Algebra II	1	Algebra I	10-12
Accelerated Algebra II	1	Geometry (A- or above) MAP Scores Instructor's Recommendation	10
Trigonometry & Pre-Calculus	1	Algebra II	11-12
College Algebra	1	Algebra II (C- or above)	12
AP Statistics	1	Algebra II (C- or above)	11-12
AP Calculus AB	1	Trigonometry/Pre-Calculus B- or above in all math classes	11-12

**\*Freshmen requesting Geometry:****It is required you have earned a B- or better in both semesters of 8<sup>th</sup> grade Algebra I****Students wishing to double up on Geometry and Algebra II must have at least an A- both semesters of Algebra I AND the instructor's recommendation.****Students are strongly encouraged to take math during their senior year.****If a student passes a math class with less than a C-, it may be in the student's best interest to repeat the class.**

**PRE-ALGEBRA** (2 semesters)**Credit:** 1                    **Elective/Required:** Elective or Required**Grade Level:** 9-10**Prerequisite:** Instructor's Recommendation**Course Description:** This course is designed to teach the fundamental concepts in depth, and prepare students for concepts used in Algebra and Geometry. The course is a study of general numbers, formulas, equations, graphs, radicals, deductive reasoning etc. (some colleges will not accept this for their Math requirements)**ALGEBRA I** (2 semesters)**Credit:** 1                    **Elective/Required:** Required**Grade Level:** 9-12**Course Description:** This course is designed to teach the fundamental concepts in depth, and prepare students for all future math courses. This course is a study of: solving equations and inequalities, linear functions, systems of equations and inequalities, exponents and exponential functions, polynomials and factoring, quadratic equations and functions, radical expressions and equations, rational expressions and functions, and probability.**GEOMETRY** (2 semesters)**Credit:** 1                    **Elective/Required:** Required**Grade Level:** 9-12**Prerequisite:** Algebra I**Course Description:** This course includes the study of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. Topics include logic and proof, parallel lines, polygons, perimeter, area, and volume analysis, similarity and congruence, and right triangle trigonometry. These topics are all embedded in the Common Core State Standards. Students will be required to use different technological tools and manipulatives to discover and explain much of the course content.**ALGEBRA II** (2 semesters)**Credit:** 1                    **Elective/Required:** Required**Grade Level:** 10-12**Prerequisite:** Algebra I**Course Description:** This course is a continuation of Algebra I with more in depth study. Fundamental Algebra skills will be applied to such topics as functions, equations and inequalities, probability and statistics, logarithmic and exponential relationships, quadratic and polynomial equations and matrices. These topics are all embedded in the Common Core State Standards. Technology will be used to introduce and expand upon the areas of study listed above. Use of graphing calculators will be incorporated into each chapter.**ACCELERATED ALGEBRA II** (2 semesters)**Credit:** 1                    **Elective/Required:** Elective/Required**Grade Level:** 10**Prerequisite:** Geometry (A- or above both semesters), MAP Scores, AND Instructor's Recommendation/Approval**Course Description:** This course will cover the same topics as Algebra II. However some topics will be explored in greater detail and at a faster pace. Additional topics covered in this course are sequences and series, conic sections, inverse functions, periodic functions and trigonometry, and trigonometric identities and equations. Technology will be used to introduce and expand upon the areas of study listed above. Use of graphing calculators will be incorporated into each chapter.**TRIGONOMETRY & PRE-CALCULUS** (1 semester: Trigonometry & 1 semester: Pre-Calculus)**Credit:** 1                    **Elective/Required:** Elective/Required**Grade Level:** 11-12**Prerequisite:** Algebra II**Course Description:** This class is intended for students who will eventually take Calculus, either in high school or college. Content will include the following: Power Functions, Polynomial Functions, Rational Functions, Exponential and Logarithmic Functions, Trigonometric Functions, Trigonometric Identities and Equations, Systems of Equations and Matrices, Conic Sections and Parametric Equations, Vectors, Polar Coordinates and Complex Numbers, Sequences and Series, Inferential Statistics and Limits and Derivatives.**COLLEGE ALGEBRA** (2 semesters) – Dual-Credit option through Mount Marty College available**Credit:** 1                    **Elective/Required:** Elective**Grade Level:** 12**Prerequisite:** Algebra II (C- or above both semesters)**Course Description:** This class is intended for seniors who are looking to keep themselves current on their math skills as they prepare to take a college freshman math course. This course will have a strong focus on functions (linear, quadratic, polynomial, rational, exponential, and logarithmic). Additional topics will include matrices, systems of equations/inequalities, and sequences/series. Technology will be used to introduce and expand upon the areas of study listed above. Use of graphing calculators will be incorporated into each chapter.



**AP STATISTICS** (2 semesters) – Dual-Credit option through Mount Marty College available

**Credit:** 1                      **Elective/Required:** Elective                      **Grade Level:** 11-12

**Prerequisite:** Algebra II (C- or above both semesters)

**Course Description:** Statistics is the area of math that deals with the collection and analysis of data. Students should have a prior knowledge of Algebra II concepts. Students will construct/interpret graphical displays of distributions of data as well as summarize distributions of data. Probability will be a major focus, as students will explore random phenomena using probability and simulation. Finally, students will use statistical inference to estimate population parameters and test hypotheses. By the end of this course, students should have gained knowledge and a better appreciation for higher-level mathematics and critical thinking skills. The students should also have developed abilities to express their mathematical thinking both verbally and in written form, using technology appropriately and when applicable. The class will be taught at a brisk pace.

**AP CALCULUS AB** (2 semesters) – Dual-Credit option through Mount Marty College available

**Credit:** 1                      **Elective/Required:** Elective                      **Grade Level:** 11-12

**Prerequisite:** Trigonometry/Pre-Calculus AND a B- or better in all math classes

**Course Description:** Calculus is the area of math that deals with change. Students should have a prior knowledge of the following mathematical concepts: trigonometry, properties of numbers and their operations, solving ratios, working with algebraic equations, inequalities, and graphs of functions, domains, inverses, lines. Topics covered include but are not limited to the study of limits, derivatives, applications of the derivative, differential equations, slope fields, the definite and indefinite integral, applications of integrals, and the Fundamental Theorem of Calculus. By the end of this course, students should have gained knowledge and a better appreciation for higher-level mathematics and critical thinking skills. The students should also have developed abilities to express their mathematical thinking both verbally and in written form, using technology appropriately and when applicable. The class will be taught at a brisk pace, with the majority of the work being completed without the use of a calculator.

### MISCELLANEOUS COURSES

Course Name	Credit	Prerequisite	Grade
Internship	0.5	None	12
Student Aide	0.25	None	11-12

### **INTERNSHIP**

**Credit:** 0.5                      **Elective/Required:** Elective                      **Grade Level:** 12

**Course Description:** An internship experience provides the student with an opportunity to explore career interests while applying knowledge and skills learned in the classroom in a work setting. Students will be required to complete 60 hours in their placement. Students will submit a weekly journal and a final paper at the end of the semester.

### **STUDENT AIDE**

**Credit:** 0.25                      **Elective/Required:** Elective                      **Grade Level:** 11-12                      **Pass/Fail**

**Prerequisite:** Must have a cumulative GPA of 2.5 or 3.0 for the previous semester & no ISS/OSS the previous year

### PHYSICAL EDUCATION COURSES

#### 0.5 credit required

Course Name	Credit	Prerequisite	Grade
Fitness and Aerobics	0.5	None	9-12
Physical Education	0.5	None	9-12
Strength Training	0.5	None	9-12

### **FITNESS AND AEROBICS** (1 semester)

**Credit:** 0.5                      **Elective/Required:** Elective                      **Grade Level:** 9-12

**Course Description:** Students will develop a year-round life-time fitness program based upon aerobic dance and fitness, including proper warm-up, heart-rate monitoring, and cool down exercises. Other fitness activities such as power walking, biking, and weight conditioning will also be taught.

### **PHYSICAL EDUCATION** (1 semester)

**Credit:** 0.5                      **Elective/Required:** Elective                      **Grade Level:** 9-12

**Course Description:** The physical aspect of learning, cardiovascular fitness, flexibility, teamwork, and promoting and enhancing a healthy lifestyle

**STRENGTH TRAINING** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 9-12

**Course Description:** Students will develop an understanding of proper strength training techniques, develop and maintain a suitable level of physical fitness, and acquire desirable social standards and ethical concepts, positive self-concept, and self-image. They'll learn the personal and educational benefits of a strength training program.

*\*Students may earn up to two credits each of Strength Training, Physical Education and Fitness & Aerobics*

**SCIENCE COURSES****3 credits required**

Course Name	Credit	Prerequisite	Grade
<b>Required:</b>			
Earth Science	1	None	9
Chemistry	1	Pre-Algebra	*10-12
<i>OR</i> Physics	1	A in Algebra I or taken Geo.	*10-12
Biology	1	None	10-12
<b>Electives:</b>			
Advanced Biology I	1	Chemistry	10-12
Advanced Biology II	1	Advanced Biology I	11-12
Advanced Physics	1	Physics & Algebra II	11-12
Human Anatomy	1	Chemistry	10-12
Physical Science	1	None	10-12

**\*Freshmen requesting Earth Science and either Chemistry or Physics:**

**It is required you have earned A's in both semesters of 8<sup>th</sup> grade science and math and have a permission slip form signed with the recommendation of both the 8<sup>th</sup> grade math and science teachers.**

**EARTH SCIENCE** (2 semesters)**Credit:** 1**Elective/Required:** Required**Grade Level:** 9

**Course Description:** This course is an exploration into Earth and Space processes. Major themes will include basic astronomy, plate tectonics, surface processes, natural resources, weather and climate with connections to geology of South Dakota.

**CHEMISTRY** (2 semesters)**Credit:** 1**Elective/Required:** Required/Elective**Grade Level:** 10-12**Prerequisite:** Pre-Algebra

**Course Description:** This class presents an up-to-date approach to teaching chemistry. Chemical concepts and principles are developed in a logical yet flexible order to make the study of chemistry interesting and challenging for students. Many features have been included to strengthen the presentation with the intent of increasing students' comprehension and interest in chemistry. Laboratory work is emphasized to give the students an active involvement in the processes of chemistry.

**PHYSICS** (2 semesters)**Credit:** 1**Elective/Required:** Required/Elective**Grade Level:** 10-12**Prerequisite:** Must receive a "B" or better in Algebra I or have taken Geometry

**Course Description:** Physics in an investigative program of study that emphasizes the study of motion, energy, sound, light, and electricity. This course is designed to give students a broad understanding of physics. The concepts will be explored both by investigating them with experiments and by applying quantitative relationship.

**BIOLOGY** (2 semesters)**Credit:** 1**Elective/Required:** Required**Grade Level:** 10-12

**Course Description:** Biology is the study of life at all levels, from cells to groups of organisms. During this course, reading, listening, discussing, and working in the laboratory are used to provide each student with the opportunity to understand scientific procedures and the important aspects of biological processes.

**ADVANCED BIOLOGY I** (2 semesters)**Credit:** 1                   **Elective/Required:** Elective**Grade Level:** 10-12**Prerequisite:** Chemistry

**Course Description:** Advanced Biology I is a class designed to be taken as the prerequisite to Advanced Biology II. It is meant to be a more in depth introductory course in Biology, where the students plan is to follow up with Advanced Biology II the following year. Upon completion of both courses, the student goal would be to earn credit by taking the AP Biology Exam and/or the dual credit with Mt. Marty the end of the course. The course work will be more detailed and labs will be more extensive for understanding and application of biological processes and concepts.

**ADVANCED BIOLOGY II** (2 semesters)**Credit:** 1                   **Elective/Required:** Elective**Grade Level:** 11-12**Prerequisite:** Advanced Biology I

**Course Description:** Advanced Biology II aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. The topics covered will be molecular biology, cells, heredity, evolution, and the ecology of organisms and populations.

**ADVANCED PHYSICS I** (2 semesters)**Credit:** 1                   **Elective/Required:** Elective**Grade Level:** 11-12**Prerequisite:** Physics, Algebra II and concurrent enrollment or completion of Trigonometry/Pre-calculus

**Course Description:** Advanced Physics I is an algebra-based, advanced-level physics course. Students cultivate an understanding of Physics through inquiry-based investigations during exploration of kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound. Upon completion of this course, a student goal would be to earn college credit by taking the AP Physics I Exam.

**HUMAN ANATOMY** (2 semesters)**Credit:** 1                   **Elective/Required:** Elective**Grade Level:** 10-12**Prerequisite:** Chemistry

**Course Description:** This course covers the structure and functions of the human body. Basic facts about human anatomy and physiology are presented. It is intended to provide a conceptual framework and the necessary information upon which to build. As a result, the student has more integrated understanding of human structure and function. The style of presentation of material, its readability, accuracy, and level of coverage has been carefully developed to meet the needs of students taking an introductory course in anatomy and physiology.

**PHYSICAL SCIENCE** (2 semesters)**Credit:** 1                   **Elective/Required:** Required**Grade Level:** 10-12

**Course Description:** This course orients the students to the field of physical science with science fundamentals of physics and chemistry combined with technology and applications in both fields. Laboratory work gives the students an active involvement in the processes of physical science.

**SOCIAL STUDIES COURSES****3 credits required**

Course Name	Credit	Prerequisite	Grade
<b>Required:</b>			
World History	0.5	None	9
World Geography	0.5	None	9
American History	1	None	10
American Government	0.5	None	11
<b>Electives:</b>			
Modern American History	0.5	None	11-12
Psychology	0.5	None	11-12
Sociology	0.5	None	11-12

**WORLD HISTORY** (1 semester)**Credit:** 0.5                   **Elective/Required:** Required**Grade Level:** 9

**Course Description:** This course covers Europe from early civilization to the rise of the national states. Emphasis is placed on the early civilizations, the Roman Empire, Greek civilization, the Middle Ages, the Renaissance and Reformation and the rise of national states.

**WORLD GEOGRAPHY** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 9

**Course Description:** The cultural, economic, and political activities of a nation or a region of the world are the consequences of its physical resources and past activities. The distinctive features of countries in the Islamic World, Africa, South East Asia, China, Japan, and Western Europe are examined in the course.

**AMERICAN HISTORY** (2 semesters)**Credit:** 1**Elective/Required:** Required**Grade Level:** 10

**Course Description:** This course covers the period from post-revolutionary America to the present. Emphasis is placed on the Constitution, national expansion, the Civil War, reconstruction, industrialization, World War I, the Depression, World War II, the Cold War, and the development of modern America in the world.

**AMERICAN GOVERNMENT** (1 semester)**Credit:** 0.5**Elective/Required:** Required**Grade Level:** 11

**Course Description:** American Government is an introductory course to understanding the basic elements of our Democracy. The students will learn the principles, fundamentals, and basic structure of our Democracy, the functions of those elements, and the dynamic nature of our government, other forms of government, and an emphasis on current events.

**MODERN AMERICAN HISTORY** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 11-12

**Course Description:** This class will examine the recent events of the 20th Century from an American perspective. The people, issues, and debates explored will cover the mid-1940's to present time, specifically including the end of WWII, the cold War, the social changes of the 1960's, and the Kennedy Administration. This course will include government, historical, economic and social topics.

**PSYCHOLOGY** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 11-12

**Course Description:** In psychology, the student will study the mental processes, behavior, and emotional characteristics of individuals. Students will learn the following: the biological basis of behavior, sensory and perception, the learning process, memory, human growth and development, and normal vs. abnormal behavior.

**SOCIOLOGY** (1 semester)**Credit:** 0.5**Elective/Required:** Elective**Grade Level:** 11-12

**Course Description:** Sociology studies human society and social behavior. Topics discussed include culture, socialization, deviance, social structure, groups, poverty, inequalities, and institutions such as the family, education, government, economy, and religion. Looking at ourselves and how society influences our behavior, values, and beliefs will also be covered.