

# 2024-2025 Course Registration Guide



## Hayfield High School

Home of Viking Pride

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A = ART CREDIT  
 CTE = CAREER/TECHNICAL ED CREDIT  
 \* = DIPLOMA WITH DISTINCTION COURSE

	<b>Course Requirements Grades 9-12</b>
English	<b>4 credits</b> English 9, English 10 11 <sup>th</sup> -12 <sup>th</sup> Grade: 1.5 Semester credits of writing, 1 semester credits of literature, and .5 semester credit of communication
Social Studies	<b>4 credits</b> American History I and II, World History, US Government (.5), Economics (.5)
Mathematics	<b>3 credits (9<sup>th</sup> Grade and Beyond*)</b> Geometry/Algebra II/Technical Math A/B
Science	<b>3.0 credits</b> Earth & Space 9, Biology, either Chemistry or Applied Chemistry
Physical Education and Health	<b>1.5 credits</b> PE 9 (.5 credit), Health 10 (.5 credit), PE 10 (.5)
Electives	<b>10.0 credits</b> 1.0 from visual, music, or media arts 1.0 from Career and Technical Education
Total Credits	<b>26.0 – Class of 2025</b> <b>26.0 – Class of 2026</b> <b>27.0 – Class of 2027</b> <b>28.0 – Class of 2028</b> Students must register for a minimum of seven (7) credits per year
Testing	The graduation-required assessment for a diploma in reading, mathematics, or writing under Minnesota Statutes can be the ACT assessment for college admission or ASVAB, a nationally recognized armed services vocational aptitude test.

## HAYFIELD HIGH SCHOOL DISTINCTION CLASSES

To achieve graduating with distinction students must:

- Attend 3.5 credits at HHS both their junior and senior year.
- Achieve 12.0 semester credits from distinction classes with an average overall 3.00 GPA.
- Enroll in three different departments for distinction courses.

### **English**

College English – Composition I (1.0)  
College English – Composition II (1.0)  
Introduction to Literature (1.0)  
Survey of Children’s Literature (1.0)

### **Mathematics**

College Algebra (1.0)  
Trigonometry (1.0)  
Fundamentals of Statistics (2.0)  
Calculus (2.0)

### **Science**

General Biology I (1.0)  
General Biology II (1.0)  
General Chemistry I (1.0)  
General Chemistry II (1.0)  
Physics (2.0)  
Anatomy/Physiology (2.0)

### **Social Studies**

Sociology (1.0)  
Psychology (1.0)

### **Agriculture**

Principals of Animal Science (1.0)

- Animal Science – Large Animal
- Animal Science – Small Animal or Companion

Agricultural Economics (1.0)  
Agriculture Metals and Machining II (1.0)

### **Art**

Independent Art I (1.0)  
Independent Art II (1.0)

### **Business Education**

Applied Principals of Bookkeeping (2.0)  
Introduction to Computers I (1.0)

### **FACS**

Hospitality, Tourism and Recreation (1.0)  
Principals of Food Science (1.0)  
Foods III (2.0)

### **Foreign Language**

Intermediate Spanish I (2.0)  
Intermediate Spanish II (2.0)

### **Industrial Technology**

Building Construction & Maintenance (1.0)

### **Music**

Band (2.0)-Special criteria applied  
Choir (2.0)-Special criteria applied

### **Graduation Requirements**

Honors  
High Honors 3.85-4.00 GPA  
Honors 3.67-3.84 GPA

## POST HIGH SCHOOL PLANNING

### **Trades and/or Technical Education Programs**

All trade unions and technical education programs require a high school diploma. Questions regarding either pathway should be addressed to the school counselor and CTE instructors.

### **College/University**

All require a high school diploma. Grade point average (GPA), ACT/PSAT and Accuplacer may be necessary for admissions. Questions about requirements should be addressed to the school counselor.

### **Military Service**

All military branches now require a high school diploma for entrance. Students interested in any of the military branches or one of the military academies should consult a military recruiter or school counselor for more information. Students wishing to attend a military academy should start their admissions process in their junior year.

## College In The Schools (CIS) (Concurrent Enrollment)

**SENIORS**—Seniors enrolling in CIS courses must score appropriately on the Accuplacer, ACT, or MCA tests. Please see the school counselor for more information regarding test scores.

**JUNIORS**—Juniors enrolling in College Now courses must score appropriately on the Accuplacer, ACT, or MCA tests may be eligible for some college in the schools' courses, regardless of GPA. Please see the school counselor for more information regarding test scores.

**SOPHOMORES**—Sophomores can enroll in any CTE (Agricultural, Business Education, FACS) College Now course. Please see your school counselor for the requirements for concurrent enrollment courses for sophomores. Students must score appropriately on the Accuplacer, ACT, or MCA test.

## AGRICULTURE EDUCATION

### **AGRICULTURE METALS AND MACHINING I**

(.5 Credit, Semester) Grades 9-12 Elective. Offered in the 2024-2025 school year.

**Lab fees will be assessed for this course.**

This course in metalworking teaches the fundamentals of working with metal, using both hand and power tools. Areas of interest that will be covered are basic welds, measurement and the materials used in metalworking. Other topics may include print reading, measurement, safety, proper care of tools and machines. There will be a student's choice of small projects to build. Students will be responsible for obtaining and purchasing metal and other materials for projects. Each student is required to have a tape measure and safety glasses. Safety glasses are available through the school. A student should have a working knowledge of math, reading, and have mechanical interests.

### **AGRICULTURE METALS AND MACHINING II**

(.5 Credit, Semester) Grades 9-12 Elective. Offered in the 2024-2025 school year.

**Lab fees will be assessed for this course.**

This course in metalworking will teach you to hone your skills by building on your fundamental skills and challenging you to weld aluminum, vertical welding, pipe welding, and plastic welding. Other topics will include drafting, reading blueprints, lathe work, vertical milling, safety, proper use and care of tools and creating a student's choice large project.

### **ANIMAL SCIENCE – LARGE ANIMAL**

(.5 Credit, Semester) Grades 9-12 Elective

This course will investigate scientific concepts relating to the biology of domestic animals (horses, cattle, sheep, poultry, and swine). Specific topics will include taxonomy and classification, cell structure and function, biological systems, anatomy and physiology, nutrition, genetics, reproduction, distribution and adaptation, selection and evaluation. Laboratory activities will provide opportunities for problem-solving through practical applications to learn scientific concepts. Animal rights and welfare issues will be covered. Application to current issues will also be explored. Leadership and Career Development opportunities for students through the FFA (an intra-curricular student group) will be presented. This class is great for any student who owns large, domesticated animals or is interested in a career with animals.

### **ANIMAL SCIENCE – SMALL ANIMAL OR COMPANION**

(.5 Credit, Semester) Grades 9-12 Elective

This course will investigate scientific concepts relating to the care of companion animals. Students will study nutrition, safety, training, health, and general care of companion animals. The course will focus on dogs, cats, rabbits, birds, reptiles, guinea pigs, rodents, and fish. Laboratory activities will provide opportunities for problem-solving through practical applications to learn scientific concepts. Application to current issues will also be explored. Leadership and Career Development opportunities for students through the FFA (an intra-curricular student group) will be presented. This class is great for any student who owns a pet or is interested in a career with companion animals.

## **INTRODUCTION TO PLANT SCIENCE**

(.5 Credit, Semester) Grades 9-12 Elective

This class will introduce you to the world of plants (Botany). In this course you will study plant cells, structure of plants, genetics, breeding, horticulture, biotechnology, ornamental plants, row crops, fiber, and oil production crops. Leadership and Career Development opportunities for students through the FFA (an intra-curricular student group) will be presented.

## **MINNESOTA WILDLIFE AND NATURAL RESOURCES**

(.5 Credit, Semester) Grades 9-12 Elective

**Lab fees will be assessed for this course.**

Students will study wildlife management to gain an understanding of the ecological, physical, and environmental concepts pertaining to wildlife management. Decisions pertaining to how wildlife populations are managed, and Minnesota Wildlife Law and Regulation and economics will be studied through lab or hands-on lessons. This course is also designed to allow students to develop an appreciation for all that Minnesota has to offer as it relates to its Natural Resources, wildlife, and outdoor recreation. Students will have the opportunity to expand their own beliefs and values of the environment. In addition, students will receive their hunter and firearm safety after taking this course. Opportunity to join the High School Trap team is also available.

## **SUPERVISED AGRICULTURAL EXPERIENCE**

(.25 Credit) Incoming 9<sup>th</sup> grade students – present 11<sup>th</sup> grade students

Prerequisite: **Must** be enrolled in Agricultural Classes for the upcoming year

This course is available to all incoming ninth through eleventh grade students. The course is recommended for students who are presently enrolled in agricultural classes or who are looking toward a career in the agricultural industry. This course allows students to design an individual education plan and pursue in-depth agricultural topics of the student's choice. Each student will need to complete 80 hours of instruction of which 25 hours must be experience through laboratory experiences and the rest as individual instruction. This course will take place during the summer months when school is **NOT** in session. Laboratory instruction will include but not limited to: Tours of Agricultural business, FFA Leadership camps, and community service projects, S.A.E. project records, judging contests associated with local county fairs & exhibiting projects planned and made through out of the school year. This class will be 100% laboratory experience outside of school. This course is intended for students to earn a quarter credit per summer enrollment on a pass/no credit system. Skills and experiences learned could help in future high school courses or education aspirations.

## **HORTICULTURE**

(.5 Credit, Semester) Grades 10-12 Elective

**Lab fees will be assessed for this course.**

Prerequisite: Introduction to Plant Science

Students will study plant growth and development including plant anatomy, physiology, production, and reproduction. Students will have the opportunity to work in the greenhouse and implement knowledge learned. Students will also be able to identify popular horticultural plants. Holiday arrangements and landscaping concepts will be covered as well. Leadership and Career Development opportunities for students through FFA (an intra-curricular student group) will be presented.

**LIVESTOCK PRODUCTION**

(.5 Credit, Semester) Grades 10-12 Elective

Prerequisite: Animal Science – Large Animal

Livestock Production will provide more in depth about the livestock industry from rationing, breeding decisions, genetics, facilities and handling of livestock animals. This course is an advancement of Intro to Large Animal Science and is truly a class for those that have a passion for the livestock industry. Field Trips, Labs, and Guest Speakers will be a vital importance for this course.

**AGRICULTURAL ECONOMICS**

(.5 Credit, 2<sup>nd</sup> Semester) Grades 11-12 Elective

Welcome to the world of ECONOMICS! This course will cover the supply and demand of commodities. Livestock markets, business creation, loans, finance budgeting, marketing, and help run the spring plant sale. This course will help prepare your own farm or business for the future. The commodity challenge by CHS Inc. Will be used in this class as part of the supply and demand unit.



## ART

### **INTRODUCTION TO ART**

(1 credit, Full Year) Grades 9-12 Elective

Introduction to Art focuses on the detailed exploration of four main areas of artistic study: drawing, painting, ceramics, and sculpture using a variety of mediums. Throughout the year, students will be expected to successfully apply the elements and principles of art both in production and critique. Projects will encourage students to explore their thoughts and feelings. There will also be an emphasis on developing interpretation skills. The idea is to get students to think like an artist and execute their ideas in their work.

### **DRAWING**

(.5 Credit, Semester) Grades 10-12 Elective

Prerequisite: Introduction to Art

In this course, they will learn the foundation of drawing with an emphasis on values and textures. Students will fine-tune their technical skills and eye for detail. Though this course is geared mostly towards developing a student's technique and skill, students will need to critique their art. Students will create a variety of drawings while using and experimenting with a variety of media.

### **GRAPHICS**

(1 Credit, Full Year) Grades 10-12 Elective

Prerequisite: Introduction to Art

This course establishes the foundation for learning visual design communication. Students will advance their artistic techniques and creativity through a wide variety of projects creating a postage stamp, license plate, post card, logos, commercial packaging, fashion, furniture, advertisement, and much more. They will learn the design process and pretend that they are the next graphic artist to design the product for the consumer.

### **PAINTING**

(.5 Credit, Semester) Grades 10-12 Elective

Prerequisite: Introduction to Art

In this course, students will develop their skills and techniques that artists use in acrylic, tempera, and watercolor. A large emphasis will be placed on color and color theory while reviewing the elements of art and principles of design. They will fine-tune their painting skills on the elements and principles, abstraction, watercolor, natural and realistic subject matter, famous artworks, and a large final painting that they will create and critique all aspects of their painting and painting process.

### **INDEPENDENT ART I AND II**

(.5 Credit, Each Semester) Grades 11-12 Elective

Prerequisite: Introduction to Art, Drawing, Painting, and Graphics

Independent Art is an advanced course of study for students who did at least B- work in previous art classes. Students will be expected to write up a plan for their individual area of study to be approved by the instructor. Therefore, students must be self-motivated, creative, and ambitious. Students are encouraged to experiment and develop innovative ideas to challenge their artistic abilities in the medium of their choice. This course can be taken for up to one year as long as the student continues to challenge his or her creative development through exploration and experimentation. Students will put together a portfolio of six to eight pieces per independent class.

**BUSINESS EDUCATION****COMPUTER DIGITAL DESIGN (FORMALLY COMPUTER APPS II)**

(.5 Credit, Semester) Grades 10-12 Elective

The first half of this class will be spent on an Introduction to Adobe Photoshop where students will modify, edit, manipulate, and create images. The second half of the course will be spent learning basic concepts, terminology, techniques, design elements, and applications of desktop publishing. Various desktop publications including brochures, flyers, newsletters, business cards, calendars, and letters are created. Due to the software applications used in the course, students must be able to work in the business computer lab. The course is not available as an online course.

**BUSO 1620 – INTRODUCTION TO COMPUTERS**

2 Credits (1 credit for high school graduation)

Grading System A-F; Course offered through Riverland Community College

This course covers basic information about computer hardware and the use of computer software as a business productivity tool, as well as for personal use. Topics covered include the operating system and desktop environment; file and folder management; introduction to spreadsheet procedures; introduction to database creation and file management, fundamental word processing concepts, and presentation graphics. Some basic computer literacy will be covered, such as e-mail etiquette, ethical computing, document attachment to e-mail and use of digital files.

**MULTIMEDIA APPLICATIONS I**

(.5 Credit, Semester) Grades 10-12 Elective

This is a great class for anyone, regardless of professional goals but especially for those individuals who desire to use their creative talents and computer skills to design and develop unique projects. Students will work with various software programs and multimedia tools (digital camera, scanner, photo editing software, and video production software), to create documents, graphics, slide shows, and other video presentations. Students will be introduced to Audacity, Adobe Photoshop, Premier Pro, and other programs. Video projects such as a public service announcement and an informative video project will be created. Students are required to use a digital camera in this course. A smartphone is acceptable.

**MULTIMEDIA APPLICATIONS II**

(.5 Credit, Semester) Grade 10-12 Elective

Pre-Requisite: Multimedia Applications I

**Lab fees will be assessed for this course.**

This class picks up where Multimedia Applications left off and is intended for the student who enjoys working with video and who wants to learn advanced video production techniques and/or intends to pursue video production or media broadcasting as a future career. Students in Multimedia Apps II will continue to work on individual video projects and will do advanced work in audio and video creation. Students will do some script writing and continue using storyboarding in video creation. Students will do advanced work in Audacity, Adobe Photoshop, and Adobe Premier Pro. Students will be expected to create their own video portfolio upon completion of this class.

**BUSO 1050 – PERSONAL FINANCIAL MANAGEMENT AND PLANNING**

3 Credits (.5 credit for high school graduation) Grades 10-12 Elective (Required for Graduation for graduating Seniors in 2029 and beyond)

Grading System A-F; Course offered through Riverland Community College

This course introduces and emphasizes the importance of personal financial management and planning and provides solid strategies for successful financial management. Topics covered include key factors that affect personal income; budgets; cash-flow management; credit and credit cards; borrowing; managing taxes; and major expenditures including housing, automobiles, insurance and investments. Students will prepare their own financial plan. This course is part of the Associate in Arts Business Concentration and Associate in Science Business degrees which are accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

**WEBSITE DESIGN I**

(.5 Credit, Semester) Grades 10-12 Elective

This course introduces students to the design and creation of multiple page websites with text, graphics, multimedia elements, and interactivity. This course covers the use of HTML5 (Hypertext Markup Language version 5), CSS3 (Cascading Style Sheets version 3), the optimization of graphics, and the application of multimedia elements to produce efficient, interactive websites. Units will include Intro to HTML, Web Site Structure, Intro to CSS, Layout and Format with CSS, Hyperlinks, Inserting and Working with Images, and Organizing Content with Lists and Tables. Students will research career opportunities related to website design, and ethical issues related to Internet use.

**WEBSITE DESIGN II**

(.5 Credit, Semester) Grades 10-12 Elective

Prerequisite: Web Site Design I

This course expands on the foundational elements of the Website Design 1 course. Students use a range of markup languages including (not limited to) Extensible Hypertext Markup, JavaScript, Dynamic HTML, and Document Object Model to develop and maintain entire websites. Topics include use of forms and scripts for database access, information transfer methods, and networking fundamentals. Projects should include opportunities for design and management of websites for school and community. Students will also research career pathway opportunities related to website design.

**ADVANCED ACCOUNTING**

(1 Credit, Full Year) Grades 11-12 Elective

Pre-Requisite: Applied Principles of Bookkeeping

Advanced Accounting is a second-year course that expands upon the fundamental accounting principles and procedures introduced in Applied Principles of Bookkeeping/Accounting I. This course would apply to a student's future career and/or personal use. This course will be excellent for the student planning to enter business or accounting as a career.

Topics included in this course are review of accounting principles, departmentalized accounting, accounting for partnerships and corporations, cost accounting, and managerial decision making. Students may learn how to apply standard auditing principles and prepare budget and final reports. Focus is given to developing the ability to communicate financial information and solve problems through financial decision-making. Calculators, electronic spreadsheets, and other automated tools are used. Internet Access is required as most of the homework is done online.

**BUSO 2641 – APPLIED PRINCIPLES OF BOOKKEEPING**

3 Credits (1 credit for high school graduation)

Pre-requisite: Computer Applications I and Computer Applications II

Grading System A-F; Course offered through Riverland Community College

This beginning level college course introduces the basic bookkeeping cycle. Topics include transaction analysis and recording. The full range of journals, financial reports, and current bookkeeping applications, such as QuickBooks, will be used. This course is part of the Associate in Applied Science Administrative Assistant degree which is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

**FINANCIAL AND MANAGERIAL ACCOUNTING**

(1 Credit, Full Year) Grades 11-12 Elective

Pre-Requisite: Accounting I

Financial and Managerial Accounting uses an integrated approach to teach accounting. Students first learn how businesses plan for and evaluate their operating, financing and investing decisions and then how accounting systems gather and provide data to internal and external decision makers. This year-long course covers all the learning objectives of a traditional college level financial accounting course, plus those from a managerial accounting course. Topics include an introduction to accounting, accounting information systems, time value of money, accounting for merchandising firms, sales, and receivables, fixed assets, debt and equity. Other topics include statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis.

## **CTE – WORK-BASED LEARNING**

### **CERTIFIED NURSING ASSISTANT PROGRAM (CNA)**

(1 Credit, Offered 1<sup>st</sup> Semester Only during 8<sup>th</sup> Hour) Grade 10-12 Elective  
(Must be 15 to take class, but 16 to pass certification exam)

This course is taught concurrently through Field Crest Care Center. The CNA coursework teaches basic nursing techniques and direct patient care under the supervision of a nurse. Learn how to provide ADL's (Activities of Daily Living) for elderly patients such as assisting with meals and bathing, taking vital signs, and learning medical reporting and documentation. This class is offered 8<sup>th</sup> hour and students must provide their own transportation to and from Field Crest Care Center. This course is an excellent beginning course for any student interested in the medical field. Upon completion of this course, students will have to pass their clinicals and CAN test to be certified.

### **CTE WORK-BASED LEARNING**

(.5 Credit, Semester) Grades 11-12 Elective

Career and Technical Education (CTE) Work-Based learning is a structured academic program where students engage in real-world activities with instruction occurring both at school and at a community-based setting with an employer. The experience provides students with opportunities to explore careers, master specific learning objectives, and earn academic credit under the supervision of a licensed work-based learning coordinator (course description taken from MDE).

### **SCHOOL-BASED ENTERPRISE (SBE)**

(.5 Credit, Semester) Grades 11-12 Elective

Consider majoring in business once you start college? Or want to dive into how to create a successful operation that is profitable to you? Whatever your goal may be, Viking Ventures is an exciting class which can lay the foundations to help make a personal business vision come true through all aspects of Career and Technical Education. If you want to learn how to operate a business and work with others, this class will offer the skills and foundations to do just that. This entrepreneurial class will encompass all 4 sections of CTE. Students will have the potential of working with FACS, Industrial Technology, Business, and Agriculture.

Viking Ventures will allow you to use hands-on learning laboratories in the shops, greenhouse, ag room, kitchen, and business office that will provide practical learning experiences to help students prepare for work or college. You will see your work come to life right before your eyes. Whether your passion is cooking, sewing, crafting, wood-working, welding, building, gardening, or creating a company in which you can be your own boss, this course will help you get a jump start to build your knowledge for real world successes.

## ENGLISH

### ENGLISH 9

(1 Credit, Full Year) Grade 9 Required

English 9 is an exploration of literature: drama, poetry, short story selections. In addition, students will develop reading and writing skills, speaking skills, and language skills using vocabulary enhancement packets and a variety of other materials. A variety of writing experiences will continue to develop students' writing skills as preparation for the expectations of their future English classes and along with the MCA test taken in the spring of their Sophomore year.

### English 10

(1 Credit, Full Year) Grade 10 Required

English 10 will focus on various aspects of American Literature including drama, poetry, short stories, and novels. Students in English 10 will also practice and develop writing skills through both formal and informal writing assignments that include literary analysis and argumentative research. In addition, students will practice vocabulary and literary terms throughout the course as well as many other activities that will help prepare for the MCA test in the spring

### High School Communication Options

#### COMMUNICATIONS

(.5 Credit, Semester) Grades 10-12

Communication is the way of life! If you are intrigued to learn a little bit of everything in the world of communication, this is your course. We will work on communication skills between two people (like interviews), small groups (like presentations you might need to give at work someday), large groups (like formal speeches), and even mass media (like online or TV videos)! This is the perfect course to get your feet wet and learn how to get your voice heard.

### High School Literature Options

#### AMERICAN LITERATURE

(.5 Credit, Semester) Grade 10-12

This course will focus on landmark texts from a variety of genres including novels, plays, and poetry from throughout American history. Students will read, discuss, analyze, and respond to texts to understand how authors were influenced by and represented significant events in the United States. This course also provides several opportunities for cross-curricular learning with the American History classes. Possible texts could include historical documents, *To Kill a Mockingbird*, *Warriors Don't Cry*, *The Great Gatsby*, *Of Mice and Men*, *The Absolutely True Diary of a Part-Time Indian*, *The Crucible*, *A Raisin in the Sun*, selected works by Edgar Allan Poe, and various other poetry and short stories.

**NONFICTION LITERATURE****(.5 Credit, Semester) Grade 10-12**

This is a course for those of us who prefer reality over stories. We will focus on real-life skills for reading non-fiction effectively. Most of what we read in our daily life is nonfiction (news, magazines, emails and texts, textbooks, etc.), so we want to be good at it! In this class we will focus on a variety of types of nonfiction, such as historical documents, news articles, technical manuals, contracts, research articles, and biographies. Possible texts include *Anne Frank: The Diary of a Young Girl*, *Into the Wild*, *Warriors Don't Cry*, and various non-fiction articles and artifacts.

**WORLD LITERATURE****(.5 Credit, Semester) Grade 10-12**

This course will focus on broadening students' perspectives by exposing them to literature from around the world. Selected readings will include both historical and modern texts. Students will read and respond to these texts to understand the cultural, political, and personal contexts in which they were created. Possible texts include: *Night*, *The Odyssey*, *The Kite Runner*, *Between Shades of Gray*, and various myths, poems, and short stories from around the world.

**20TH CENTURY LITERATURE****(.5 Credit, Semester) Grade 10-12**

This course focuses specifically on the last century of literature when many of our modern-day classics were created. Students will read and respond to these texts to understand the various factors that influenced authors during this century of great change. This course also provides ample opportunities for cross-curricular collaboration with the history department, as students can compare the historical presentation of the facts to the stylized representation of events in literature. Possible texts include: *The Great Gatsby*, *The Catcher in the Rye*, *1984*, *A Streetcar Named Desire*, *To Kill a Mockingbird*, *The Grapes of Wrath*, *Farewell to Manzanar*, Harlem Renaissance poetry, dystopian literature, and other selected texts.

**High School Writing Options****BUSINESS/TECHNICAL WRITING****(.5 Credit, Full Year) Grades 10-12**

This course will focus on career-oriented writing. Students will learn how to write business letters, memos, résumés, cover letters, and other business-related writing. Focus will be on professional presentation, content, and etiquette in professional writing.

**CREATIVE WRITING****(.5 Credit, Semester) Grade 10-12**

This course will focus on the creation of creative writing such as poetry, short stories, and non-fiction narratives. Using model texts as examples, students will study and develop the style and technical skills of good writing in the form of creative texts.

**RESEARCH WRITING**

(.5 Credit, Semester) Grades 10-12

This course will focus on research-based writing in the form of traditional research papers, persuasive research-based writing, and non-traditional research projects and presentations. Students will learn research skills, documentation procedures, argumentation, MLA format, grammar, and traits of good writing, using various non-fiction texts as writing models. This course will be especially useful for college-bound students to develop skills for writing at a college level, and it is a prerequisite for Composition I.

**College Credit Options****ENGL 1101 – COMPOSITION I**

3 credits (.5 credit for high school graduation)

High School Prerequisite: Research Writing

College Prerequisites: A grade of C or higher in ENGL 0960 or appropriate placement score.

Grading System A-F; Course offered through Riverland Community College; course offered first semester

This is an introductory college writing course designed to help students develop effective writing skills for college level work. Students learn to generate ideas and organize them into unified, coherent essays. Methods of instruction vary, but most sections combine individual conferences and peer review with regular class meetings. Students are highly encouraged to take Research Writing prior to registering for this course.

**ENGL 1103 – INTRODUCTION OF LITERATURE**

3 Credits (.5 credit for high school graduation)

Grading System A-F; Course offered through Riverland Community College

This is an introductory literature course designed to increase a student's critical and analytical skills in reading. Included is a study of literature by genre: the short story, drama, poetry and the novel. Emphasis in the selections is on American and English literature although some works in translation are read. Critical and interpretive papers are required.

**ENGL 1105 – COMPOSITION II: RESEARCH**

3 credits (.5 credit for high school graduation)

Prerequisite: ENGL 1101

Grading System A-F; Course offered through Riverland Community College; course offered second semester

This second semester composition course is designed as a continuation of ENGL 1101. It teaches the skills needed to write clear and coherent essays using different modes of expository prose such as process, comparison and contrast, classification, and definition. It will culminate in the study of argumentative writing in which the student learns to defend a position and argue a thesis with reason and evidence.



## **ENGL 2260—SURVEY OF CHILDREN’S LITERATURE**

3 Credits (.5 credit for high school)

Prerequisite: ENGL 1101

Grading System A-F: Course offered through Riverland Community College

This course will survey children’s literature from the preschool to preteen years. Standards for critical evaluation will evolve through extensive reading, discussion, research, and writing. Course content will focus on the history of children’s literature and criteria for selecting and evaluating different genres within literature for children, including the following: picture books, traditional literature, modern fantasy, poetry, contemporary fiction, historical fiction, and multicultural fiction.

## **FAMILY AND CONSUMER SCIENCES**

### **CHILD DEVELOPMENT I**

(.5 Credit, Semester) Grades 9-12 Elective

The course has been designed to trace the developmental stages of childhood from conception through early infancy. Learn through observation and create a book on physical, social, emotional, and intellectual growth patterns of the infant. Examine the role of parenting as a choice and lifelong commitment and explore the impact of parental guidance on a child's development.

### **CHILD DEVELOPMENT II**

(.5 Credit, Semester) Grades 9-12 Elective

This course builds on the information in Child Development I and is designed to trace the development stages of childhood throughout the lifespan using projects, observations, studies, and simulations. The class emphasizes physical, intellectual, emotional, and social growth and development as well as how adults can provide a supportive environment. The course is designed for anyone thinking about a career in education, health occupations and childcare as well as future parents.

### **FABRIC ARTS**

(.5 Credit, Semester) Grades 9-12 Elective

This exploratory project-based course is designed to introduce students to the variety of areas within textiles and design. They will explore fabric selection, color in design, and the application of math principles in designing quilts and other smaller textile projects. Students will work to improve their skill on the sewing machine and become more confident in their ability to create projects while using different methods and mediums.

### **FASHION DESIGN**

(.5 Credit, Semester) Grades 9-12 Elective

Discover the world of fashion and enter a world of beauty, style, and promotion. Discuss the history of clothes, the apparel industry, the science and art of apparel and design, and the marketing of clothes. Try your hand at designing and marketing a fashion item or accessory.

### **FOODS I**

(.5 Credit, Semester) Grades 9-12 Elective

**Lab fees will be assessed for this course.**

This course applies current food-related topics to find ways to make appetizing and nutritious meals within a limited budget. Try new foods and increase your appetites by creating foods full of flavor and stimulating all senses. Included in this course are the following: safety and sanitation, preparation techniques, preservation techniques, meal planning, and cost analysis. This course will provide weekly lab opportunities to enable students to practice participating in decision making and using cooperative group skills. This course is capped at 20 students per section.

**FOODS II**

(.5 Credit, Semester) Grades 9-12 Elective

**Lab fees will be assessed for this course.**

Prerequisite: Foods I

Examine the history of American foods through preparation of foreign foods. Evaluate the impact of science and technology on the food supply and participate in advanced food preparation. Cooking, health, and storage tips connect science basics to your daily encounter with foods. Weekly lab opportunities offer development of teamwork and communication skills. This course is capped at 20 students per section.

**HOUSING**

(.5 Credit, Semester) Grades 9-12 Elective

Learn the homebuying process in housing class. Know what to look for in architecture and housing styles, and understand the benefits and challenges of homeownership. Explore what is needed for mortgage loan approvals and terms. See how a realtor works to make homes look more attractive. Imagine buying your new home and then creating landscaping and an outdoor living space.

**INTERIOR DESIGN**

(.5 Credit, Semester) Grades 9-12 Elective

This class is designed to help the student learn about art principles and their application to decorating choices, study floor plans, room and furniture arrangement and selection, as well as consumer rights and responsibilities. A final project of renovating a school bus into a tiny home will include floor plans and composite of materials and color choices, selection, and arrangement of furnishings, accompanied by a detailed report of cost and reasons for the choice.

**STRESS MANAGEMENT**

(.5 Credit, Semester) Grades 9-12 Elective

**Lab fees will be assessed for this course.**

Student life can be as stressful as life at the office. Stress may be a good motivator, but once there is too much, it can cause problems. When this happens, there is a need to reduce the stress levels and we will explore the many ways of doing just that. We will assess your personality traits and communication skills in relation to stressors. Take a look at how to manage other common stressors such as money, relationships, community involvement and grief. Use the problem-solving model to find personal interests and hobbies to use as excellent stress busters. Students will help create some curriculum by exploring stress free activities that they enjoy – including, but not limited to crafts, collecting, gardening, games, outdoor living, yoga, etc.

## **EDUC 1100 – EDUCATIONAL FOUNDATIONS I**

3 Credits (2 Lecture, 1 Field Experience)

(5. credit for high school, 1st Semester) Grades 10-12 Elective

Grading System: A-F: Course offered through Riverland Community College

If you enjoy being a student aide, then Ed Foundations is a course for you! In this course, students will explore the education profession. Students will use multiple observations to learn about the roles of teachers in schools including characteristics of effective teachers; study historical and philosophical factors in shaping U.S. K-12 education; examine critical current educational issues including diversity and the opportunity gap; and explore the rational and practice of reflective teaching as well as personal motivations. Additionally, college credit students will design a plan for achieving a passing score in the MN NES Essential Academic Skills (EAS) subtests in Reading, Writing, and Math, required for teacher licensure in Minnesota. Designed to meet State of Minnesota educational foundations requirements for licensure. Finally, students will complete a 10-hour field experience in a classroom...you'll be setting up a lesson for a group of students. Optionally, students can extend the course into second semester with the majority of hours being more field experience.

## **EDUCATIONAL FOUNDATIONS II**

(.5 Credit, 2<sup>nd</sup> Semester) Grades 10-12 Elective

Ed Foundations II is an extension of Ed Foundations. It is a hybrid course – online and in classrooms collaborating with teachers to create plans to work with small groups of students. Assist teachers with classroom management.

## **FOODS AND NUTRITION**

(.5 Credit, Semester) Grades 10-12 Elective

Examine the relationship between the food we eat and health. Build your ability to analyze nutritional information and create nutritional guidelines to achieve and maintain a healthy lifestyle. Evaluate personal dietary practices. Explore cooking methods and nutritional food choices through cooking labs. This course is capped at 20 students per section.

## **FOODS III**

(1 credit, Full Year) Grades 11-12 Elective

Prerequisite: Foods 2

**Lab fees will be assessed for this course.**

Foods 3 is an in-depth study of the food industry, including restaurant and hospitality careers, restaurants as a business, and the continuing study of culinary arts. Student will participate in the “running” of a restaurant and multiple cooking labs. This is an intensive college level class where students can earn a ProStart National Certificate of Achievement (COA). Earning the COA can give you a leg up in your job search and opens the door to collegiate opportunities. Numerous restaurants, food service and hospitality programs offer benefits to ProStart graduates. These benefits include scholarships, class credits and credit towards work experience requirements. To earn the ProStart National COA, a student must pass “The Foundations of Restaurant Management and Culinary Arts” Level 1 and Level 2 exams, document 400 hours of work experience and demonstrate proficiency on more than 50 workplace competencies. Work experience can come from paid jobs, school-based enterprises, or relevant volunteer work. This course is capped at 20 students per section.

**FSCI 1000 – PRINCIPALS OF FOOD SCIENCE**

4 credits (0.5 credit for high school graduation)

Grading System A-F; Course offered through Riverland Community College

This course will include an overview of scientific principles applied to food systems and will cover chemistry & composition, and sensory evaluation of foods. An overview of the food industry including an examination of the farm-to-fork movement based on both US and global food production and processing systems will be performed. Review of current food trends including organic, natural, and other traditional/conventional vs. emerging/newer foods will be undertaken. Exploration of how animal/plant commodities are processed into finished foods will supplement discussion of diverse food industry careers prior to delving into modular topics. A special emphasis on real-world, creative problem solving will provide students with skills helpful in pursuing careers in research & development, plant operations, or business & entrepreneurship. The use of innovation and design thinking skills to enhance learning outcomes through academic and industry environments are included.

## FOREIGN LANGUAGE

### **SPANISH I**

(1 Credit, Full Year) Grades 9-12 Elective

This course serves as an introduction to the Spanish language and culture. Presentation of basic grammar and vocabulary practiced through oral and written exercises and activities. Present indicative tense will be covered.

### **SPANISH II**

(1 Credit, Full year) Grades 9-12 Elective

This course serves as an introduction to the Spanish language and culture. The fundamentals of basic grammar and vocabulary are practiced through oral and written exercises and activities. Basic conversation skills, present tense verbs, nouns, and adjectives are learned. Students are introduced to various geographical and cultural concepts to better understand the Spanish-speaking world.

### **SPAN 2001 – INTERMEDIATE SPANISH I**

4 credits (1 credit for high school graduation)

Grading System A-F; Course offered through Riverland Community College

Prerequisite: Spanish 1,2

This course presents a comprehensive review and continued development of speaking, listening, reading, and writing skills in accordance with the ACTFL (American Council of Teachers of Foreign Language) standards. It includes special emphasis on communicating ideas in conversation and in writing to increase proficiency. Cultural materials develop an awareness and understanding of the arts, customs, history, culture and literature of Spanish-speaking people and countries throughout the world. This study creates a comparison of cultural, social, and linguistic differences and similarities. This course also explores how the ideas and values of Spanish-speaking cultures are expressed in the arts and humanities within a social and historical context. This course is intended for students who have successfully completed two years of high school Spanish. This course will be one year, and students can receive 4 credits through Riverland. (Prerequisite for Costa Rica tour every other summer.)

### **SPAN 2002 – INTERMEDIATE SPANISH II**

4 credits (1 credit for high school graduation)

Grading System A-F; Course offered through Riverland Community College

Prerequisite: Spanish 1, 2, 3

This course is designed for students who have completed Spanish 2001 or approximately three years of high school Spanish. Course content focuses on strengthening speaking, listening, reading, and writing skills in Spanish in accordance with the standards of ACTFL (American Council of Teachers of Foreign Languages). Emphasis is placed on communicating ideas in conversation and composition. Cultural and literary materials will develop an awareness and understanding of the arts, customs, history, culture and literature of Spanish-speaking people and countries throughout the world. Extensive study creates a comparison of the cultural, social, and linguistic differences and similarities. This course is 1 year, and students will receive 4 college credits from Riverland. (Prerequisite for Costa Rica tour every other summer.)

## INDUSTRIAL TECHNOLOGY EDUCATION

### **WOODS I**

(.5 Credit, 1<sup>st</sup> Semester) Grades 9-12 Elective

**Lab fees will be assessed for this course.**

Class Limit: 15

This course is an introduction to wood technology and explores the basics of woodworking as it applies to today's technologies. The students will learn:

- Hand and power tool safety and familiarization (Safety is always emphasized)
- Wood characteristics and selection
- Woodworking processes
- Assembly and evaluation
- Blueprint reading
- Sawing, sanding, jointing, joinery gluing and finish using a hands-on approach by building a variety of projects

### **BUILDING CONSTRUCTION & MAINTENANCE**

(1 Credit, Full Year) Grades 10-12 Elective

Prerequisite: Woods I & II

Class Limit: 20

This course covers technical aspects of carpentry with emphasis on the development of intermediate skills. The course content includes floor systems, wall and ceiling framing, roof framing, introduction to concrete, reinforcing materials and forms, windows and exterior doors, and basic stair layout. Students will be using a curriculum adopted from the Carpenters International Training Fund. Students will use all of the skills and knowledge gained in the course to construct a building at the end of the course.

### **HAYFIELD FABLAB**

(.5 Credit, Semester) Grades 10-12 Elective

This is a course designed to bring the creativity and ideas of the students to life with technology. This class will use a variety of computer-controlled machines and tools to bring design ideas from a simple idea to a real-life object. Our FabLab will focus on its students' abilities to develop higher-order thinking skills, use the design process to solve problems and increase career readiness. This will all happen with access to our design and fabrication equipment, including CAD (computer-aided design) software, 3D printer and the CNC Plasma/Router table.

### **HOME IMPROVEMENT (DIY)**

(.5 Credit, Semester) Grades 10-12 Elective

Class Limit: 15

This course is designed to introduce students to the world of home repairs. The course will focus on minor home repairs that can be done by the homeowner. The course will give the students the knowledge they need to tackle most home repairs such as plumbing, electrical and drywall repair. Home Improvement allows:

- to learn basic tool skills and safe operation.
- to be able to research ways to fix common problems.
- to build confidence in the students' abilities to perform simple repairs.

**SUPER MILEAGE I**

(.5 Credit, 1<sup>st</sup> Semester) Grades 10-11 Elective

Prerequisite: Agriculture Metals and Machining 1

Class Limit: 15

This course will turn into an Extracurricular Club during the 2nd semester to finish up the build and prepare for the competition in Brainard, MN.

This course provides students the opportunity to design, engineer, build and test a one-person driven vehicle. The vehicle is powered by a gasoline engine to achieve the highest fuel mileage possible. The course will follow the guidelines and safety requirements set forth by the MTEEA (Minnesota Technology and Engineering Educators Association). At the end of the course, students will be able to test and record the fuel mileage their vehicles achieved at a competition at the Brainard International Raceway.

Super Mileage allows students to:

- learn basic design skills (Process, exercises, reverse engineering, open-ended problems)
- understand the purpose of engineering in designing and building
- understand how gear ratios, weight ratios and aerodynamics play a part in fuel mileage
- work in groups
- understand how to troubleshoot problems.
- gain some basic experience with gasoline engines

**WOODS II**

(.5 Credit, 2<sup>nd</sup> Semester) Grades 10-12 Elective

Prerequisite: Woods I

**Lab fees will be assessed for this course.**

Class Limit: 15

This is an advanced class designed for students to create higher level wood projects. Woods II allows the student:

- to explore their own upper boundaries of fine craftsmanship in the woodworking field
- an opportunity to design their own projects and work on larger group projects
- a hands-on opportunity to learn about the basics of carpentry and construction
- to hear speakers from woodworking industries
- go on field trips to increase understanding and foster working relationships

**SMALL ENGINES**

(.5 credit, Semester) Grades 11-12 Elective

**Lab fees will be assessed for this course.**

This course is designed for those who have little knowledge of how engines work. We will study the principles of 2 and 4 stroke gasoline engines through classroom and shop work. Engines will be provided for lab work. However, during the 2<sup>nd</sup> half of the semester you will be able to work on your own personal engines once labs have been completed.



**SUPER MILEAGE II**

(.5 Credit, 1<sup>st</sup> Semester) Grades 12 Elective

Prerequisite: Agriculture Metals and Machining 1

Class Limit: 15

This course will turn into an Extracurricular Club during the 2nd semester to finish up the build and prepare for the competition in Brainard, MN.

This course provides students the opportunity to design, engineer, build and test a one-person driven vehicle. The vehicle is powered by a gasoline engine to achieve the highest fuel mileage possible. The course will follow the guidelines and safety requirements set forth by the MTEEA (Minnesota Technology and Engineering Educators Association). At the end of the course, students will be able to test and record the fuel mileage their vehicles achieved at a competition at the Brainard International Raceway.

Super Mileage allows students to:

- learn basic design skills (Process, exercises, reverse engineering, open-ended problems)
- understand the purpose of engineering in designing and building
- understand how gear ratios, weight ratios and aerodynamics play a part in fuel mileage
- work in groups
- understand how to troubleshoot problems.
- gain some basic experience with gasoline engines

<b>MATH</b>
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**GEOMETRY**

(1 Credit, Full Year) Grades 9-12

Prerequisite: Passing grade in Algebra I

Geometry is a branch of mathematics that investigates shapes, size, and position of figures, and the study of space. This course will cover the following topics: points, lines, planes, angles, deductive reasoning (proofs), parallel lines, congruent triangles, quadrilaterals, similar polygons, right triangles, circles, areas of plane figures, areas and volumes of solids, coordinate geometry, and transformations. Lecture will be the primary method of instruction for this course.

**ALGEBRA II**

(1 Credit, Full Year) One Math course required for Grade 10-12

Prerequisite: C- or Higher in Algebra I

Advanced Algebra is an in-depth continuation of Algebra. Sometime will be spent on linear equations; however, quadratics and higher order polynomials will represent the bulk of the material. Topics include: Linear Equations, Linear Inequalities, Quadratic Equations, Quadratic Inequalities, Factoring, Matrices, Systems of Equations, Systems of Inequalities, Linear Programming, Exponential Functions, Logarithmic Functions, Growth and Decay, and an Introduction to Trigonometry. A graphing calculator is required for this course (ex. TI-83 or IT-84).

**TECHNICAL MATH A/B**

(2 Credits, 2 Years) Grades 10-12

Fulfills MN requirements.

Assigned by school counselor and administrator.

Technical math takes the Algebra II standards and breaks them down over two (2) years. Most of the content will be spent on linear equations; however, quadratics and higher order polynomials will represent the bulk of the material. Topics include: Linear Equations, Linear Inequalities, Quadratic Equations, Quadratic Inequalities, Factoring, Matrices, Systems of Equations, Systems of Inequalities, Linear Programming, Exponential Functions, Logarithmic Functions, Growth and Decay, and an Introduction to Trigonometry. A graphing calculator is required for this course (ex. TI-83 or IT-84).

**MATH 1110 – COLLEGE ALGEBRA**

3 credits (.5 credit for high school graduation)

Grading System A-F; Course offered through Riverland Community College

This course covers the basics of college level algebra emphasizing understanding of the basic principles through investigation. The topics covered range from a basic algebra review to exploration of linear, quadratic, exponential, and logarithmic functions along with a study of rational expressions, inverse relations, function operations, complex numbers, and systems of equations. A graphing calculator is required for this course (ex. TI-83 or IT-84).

**Students must pass the Accuplacer exam to qualify for this course.**

**MATH 1120 – TRIGONOMETRY**

4 credits (.5 credit for high school graduation)

Grading System A-F; Course offered through Riverland Community College

Prerequisite: MATH 1110 or equivalent

This course builds on the computational, problem solving, and graphing skills learned in previous math courses. The topics covered in this course include trigonometric ratios, functions, graphs, identities, equations, inverse trigonometric functions, solution of the general triangle and other applications, conic sections, polar coordinates, and complex numbers. A graphing calculator is required for this course (ex. TI-83 or TI-84).

**Students must pass the Accuplacer exam to qualify for this course.**

**MATH 2021 – FUNDAMENTALS OF STATISTICS**

4 credits (1 credit for high school graduation)

Prerequisite: Math 0660 or Math 0670 or qualifying score on placement test.

Grading System A-F; Course offered through Riverland Community College

This course is an introduction of basic statistical methods including sampling, analyzing a research study, measures of central tendency and dispersion, probability, confidence intervals, hypothesis testing of means and proportions, Chi-square, analysis of variance, correlation, and regression. The use of statistical software is included in this course.

**CALCULUS**

(1 Credit, Full Year) Grade 12 Elective

Prerequisite: College Algebra or Trigonometry

This course offers the student an introduction to calculus. It is a continuation of the study of mathematics for college-bound students. Topics included for the year will be those expected to be studied in a collegiate Calculus I course: Limits, Continuity, Derivatives, Techniques of Determining Derivatives, Applications of the Derivative, Introductory Integrals, and the Derivatives and Integrals of Exponential, Logarithmic and Trigonometric Functions. A graphing calculator is required for this course, as most colleges and universities now expect students to have their own graphing calculator (ex., TI-83 or TI-84) AND know how to use it on the first day of class.

## MUSIC

### **CONCERT CHOIR**

(1 Credit, Full Year) Grades 9-12 Elective

This choir is open to all students 9-12 with the discretion of the director. This class meets five days a week. Its focus is high-level music performance and development of high-level choral skills. Students in this group also have the opportunity to participate in small group contest and will perform as a large group at the MSHSL Large Group contest. Students will work to improve their vocal technique in the areas of part-singing, posture, breathing, tone production, diction, and sight singing. Students will sing from a variety of styles including pop, musical theater, spiritual/gospel, folk, and classical. Grades for each quarter are based on daily participation, written work, voice lessons, and performances. Private or small group lessons are offered to all students in Concert Choir.

### **SENIOR HIGH BAND**

(1 Credit, Full Year) Grades 9-12 Elective

This class meets five times a week. Individual or small group lessons are offered to each student each week during the school year. Three concerts, pep band, marching band, solo and small ensemble contest participation, and other performances may be required throughout the school year. Students interested in participating in Senior High Band must have successfully completed consecutive previous years of band instruction or the equivalent or at the discretion of the instructor.

## PHYSICAL EDUCATION/HEALTH

### PHYSICAL EDUCATION 9

(.5 Credit, Semester) Grade 9 Required

All physical education classes are co-educational. Physical education courses will improve the mental/emotional, physical, and social aspects of living a healthy life. Students will be introduced to the fundamentals of team and individual sports, including skills, rules and regulations, game strategy, and sportsmanship. Games and skills will vary from grade to grade, building from year to year.

### HEALTH 10

(.5 Credit, Semester) Grade 10 Required

This course will revisit and build on the topics covered in Health 8. Going more in-depth learning about communication, relationships, sexual education, growth and development, and health advocacy.

### PHYSICAL EDUCATION 10

(.5 Credit, Semester) Grade 10 Required

All physical education classes are co-educational. Physical education courses will improve the mental/emotional, physical, and social aspects of living a healthy life. Students will be introduced to the fundamentals of team and individual sports, including skills, rules and regulations, game strategy, and sportsmanship. Games and skills will vary from grade to grade, building from year to year.

### INTRODUCTION TO OFFICIATING

(.5 Credit, Semester) Elective Grades 10-12. Offered Fall 2024-2025.

This course provides the foundation and professional skills required to become a sports official. This course will cover the basic rules and mechanics of officiating the following sports: football, volleyball, basketball, baseball, and softball. Students in this class will be expected to assist or volunteer with officiating youth or junior high athletics. Other areas explored include continuing education opportunities and networking. (Prerequisites: None).

### PERSONAL FITNESS

(5. Credit, Semester) Elective Grades 10-12

This class will provide a variety of workouts to help students improve their fitness levels. We will concentrate on the component of fitness to build healthy fitness habits. Training will include speed and agility, strength training, circuit, interval training, and flexibility training.

### TEAM SPORTS

(.5 Credit, Semester) Elective Grades 10-12

This class is designed for those who enjoy staying fit through team sports and competition. Students will take part in traditional team sports, racquet sports and some new competitive sports that are popular in other countries.

**LIFETIME SPORTS AND FITNESS**

(.5 Credit, Semester) Grade 11-12 Elective

Pre-Requisite: Team Sports or Personal Fitness

This is a course that offers weekly workouts to improve fitness, sports, and activities that students can use throughout their lifetime to stay healthy. This course will include yard games, bowling, disc golf and additional activities. This class may require additional costs if field trips are approved.

**ADVANCED LIFETIME SPORTS AND FITNESS**

(.5 Credit, Semester) Grade 12 Elective

Pre-Requisite: Lifetime Fitness

This course will build on the principles and techniques of Lifetime Sports and Fitness. Students in Advanced Lifetime will explore work out programs in more depth and work on creating their own plan catered to their fitness goals. This course will coincide with Lifetime Fitness, and involve teaching, demonstrating, and critiquing the form and programs of others.

## SCIENCE

### **EARTH & SPACE 9**

(1 Credit, Full Year) Grade 9 Required

Earth and Space 9 is a course that will visit how the five spheres of Earth (biosphere, atmosphere, geosphere, cryosphere, and hydrosphere), and the world beyond Earth, work together as a system to sustain the planet. Units of study will include topics such as the biosphere's interaction with the Earth in terms of climate change, topography, geologic processes, and the surrounding universe. Course work will consist of lectures, laboratory, collaborative learning, research, and individual/group presentations.

### **BIOLOGY**

(1 Credit, Full Year) Grade 10 Required

Biology is the study of living things. This course studies ecology, cells, genetics, microorganisms, plants, and human biology. Biology informs students on general aspects of living things and provides hands on activities to enrich ideas. This course prepares students for post high school studies. Cooperative learning and lab work are a big part of this course.

### **ALL STUDENTS MUST TAKE EITHER APPLIED CHEMISTRY OR INTRODUCTION TO CHEMISTRY PRIOR TO GRADUATION.**

**Course placement is by department/counselor recommendation.**

### **APPLIED CHEMISTRY**

(1 Credit, Full Year) Grades 11-12 Required

Students in applied chemistry cover the same topics as in chemistry, with the addition of food science. The course is at a slower pace with additional instruction. Course placement is by department and counselor recommendation. Required course for graduation.

### **CHEM 1000 – INTRODUCTION TO CHEMISTRY**

4 Credits (1 Credit for high school graduation) Grades 11-12 Required

Grading System A-F: Course offered through Riverland Community College

This is a laboratory science course for students not intending to major in chemistry or science. Topics include atomic theory, and structure, chemical bonding, chemical accounting (mass and volume relationships), acids and bases, as well as an introduction to organic and biological compounds.

### **ANATOMY/PHYSIOLOGY**

(1 Credit, Full Year) Grades 11-12 Elective

Prerequisite: C or better in Biology

This rigorous course will take an in-depth look at the human body. We will look at a single cell and describe the functions of the organelles. We will work on larger components, organs, and organ systems. The course requires students to know most bones and muscles of the human body. There will be corresponding dissections to further student understanding.

## **ASTRONOMY**

(.5 Credit, Semester) Grades 11-12 Elective

This course will further explore basic understandings of astronomy learned in 8th and 9th grade. Students in this course will build rockets, explore theories surrounding the beginning of the universe, and learn how to use telescopes. Students will also explore such topics as: solar systems, black holes, and galaxies. Students would be required to engage in 3-night viewings using the school's telescope.

## **BIO-ETHICS**

(.5 Credit, Semester) Grades 11-12 Elective. Offered 2025-2026.

Prerequisite: Biology

A discussion type of class providing students the opportunity to explore their own feelings and personal values in a variety of ethical issues in biology including environmental issues, abortion, genetic engineering, animals in research, euthanasia, addiction, basis of behavior, population problems, and more. Every student will author a research paper and present it for one day to the class.

## **FORENSICS**

(.5 Credit, Semester) Grades 11-12 Elective

This course introduces the fundamentals of forensic science. Class periods will focus on the historic development of forensic science, proper collection and storage of evidence, background in scientific concepts, scientific techniques used to analyze evidence, the types of information that can be obtained, and the statistical methods for making a case in a court of law. Topics covered include hair, drug, paint, fiber, and fingerprint, accelerant, or DNA analysis. Student's final exam will involve re-enacting a crime scene.

## **BIOL 1220 – GENERAL BIOLOGY I**

4 Credits (.5 credit for high school graduation)

Grading System A-F: Course offered through Riverland Community College; course offered first semester.

This course is one of two introductory courses in biology. It is a cellular-based approach to the foundational principles of biology, and it addresses basic life processes at molecular, cellular, tissue, and organismal levels, principles of evolution, cellular functions, and cycles. (Prerequisites: None). (4 C/3 lect., 2 lab). MNTC: Goal 3/Natural Sciences, Goal 10/People and the Environment.

## **BIOL 1230 – GENERAL BIOLOGY II**

4 Credits (.5 credit for high school graduation)

Grading System A-F: Course offered through Riverland Community College; course offered second semester.

This course is one of two introductory biology courses. It is an organism-based study of the diversity of living organisms including the structure and function of organisms to incorporate how they conduct basic life processes (e.g., gas exchange, nutrition). The course has an emphasis on genetics, DNA, and biotechnology. (Prerequisites: Biology 1091). (4 C/3 lect., 2 lab). MNTC: Goal 2/Critical Thinking, Goal 3/Natural Sciences.

## **PHYSICS**

(1 Credit, Full Year) Grades 11-12 Elective

Prerequisite: Advanced Algebra

Physics is a college prep class that explains the “why” and “how” of natural phenomenon. It is an intense course that involves the areas of force, buoyancy, projectiles, motion, work, power and simple machines, electricity, and magnetism. Class projects and competitions provide hands-on experiences.



**CHEM 1201 – GENERAL CHEMISTRY I**

5 Credits (.5 credit for high school graduation), Course offered through Riverland Community College

Prerequisite: Math 1110 or concurrent registration in Math 1110.

This is the first course of a two-semester sequence in general inorganic chemistry, Atomic Theory, stoichiometry, chemical reactions, thermochemistry, chemical bonding, molecular structure, and atomic structure, periodicity, and the gas phase. This course is for students intending to transfer or pursue bachelor's preparation and/or careers in chemistry and the other physical sciences, engineering, and health sciences (medicine, pharmacy, veterinary medicine, four-year nursing).

**CHEM 1202 – GENERAL CHEMISTRY II**

5 Credits (.5 credit for high school graduation), Course offered through Riverland Community College

Prerequisite: MATH 1110 and CHEM 1201.

This is the second course of a two-semester sequence in general inorganic chemistry. Content includes properties of solutions, kinetics, equilibrium, acids and bases, thermodynamics, and electrochemistry. This course is for students intending to transfer or pursue bachelor's preparation and/or careers in chemistry and the other physical sciences, engineering, and health sciences (medicine, pharmacy, veterinary medicine, four-year nursing).

## **SOCIAL STUDIES**

### **AMERICAN HISTORY 1**

(1 Credit, Full Year) Grade 9 Required

The year is spent in study of the roots of the United States from the first inhabitants of North America through the 19<sup>th</sup> Century. Heavy emphasis is placed on understanding some of the major events in history and how it shaped the country we live in today. A chronological approach is used to follow the major events and trends in history.

### **AMERICAN HISTORY 11**

(1 Credit, Full Year) Grade 10 Required

This course is designed to give the students an understanding of the events, which have made the United States the country it is today. More importantly, it will allow the student to understand how those events that have made the American people what we are today. This course picks up where American History I left off. The Spanish/American War is the first stop on the journey that will take this course through the 20<sup>th</sup> century to the modern day.

### **PSYCHOLOGY**

(.5 Credit, Semester) Grades 11-12 Elective

Psychology explores the influences of society on individual behavior and group relationships. Psychology looks for biological explanations for human behavior. You will learn more about the social and biological aspect of human behavior as you draw from the course material to gain insight into your life and the lives around you. Topics discussed include research methods, the biology of behavior, sensation and perception, stress and adjustment, learning, memory, cognition, motivation, emotion, life-span development, personality, abnormal behavior, therapies, social behavior, and individual difference.

### **SOCIOLOGY**

(.5 Credit, Semester) Grades 11-12 Elective

The study of Sociology helps us make connections between human behavior and society. It helps us understand the processes that have shaped the features we observe around us every day as well as the ways those features may be different tomorrow. Sociology helps us understand the processes that have created a world that is home to more than six billion people. Topics discussed include historical eras and social change, social stratification, cultural diversity, value system, social structure, societies, groups, individuals, adolescents, adults, deviance, social control, ethnic relations, and the family.

### **WORLD HISTORY**

(1 Credit, Full Year) Grade 11 Required

Eleventh grade social studies are a course in World History, which may range from the beginning of civilization to the present. The study includes a variety of regions and cultures, focusing on themes, which run concurrent throughout history. Students will continually be asked to analyze information from the past and consider how it relates to the contemporary world.

## **UNITED STATES GOVERNMENT**

(.5 Credit, 1<sup>st</sup> Semester) Grade 12 Required

This course is an introduction to the basic concepts of American government, the American political process and the rights and responsibilities of citizenship. Additionally, this course will also serve to create more informed citizens who are prepared to experience the goods and bad from being an actively involved citizen. This class will focus on three major areas: The Constitution, the institutions of modern American government, and the political behavior of the American mass public. American government is a required course for graduation from Hayfield High School.

## **ECONOMICS**

(.5 Credit, 2<sup>nd</sup> Semester) Grade 12 Required

Economics is the study of how society chooses to use scarce resources to satisfy our unlimited wants and needs. This course will be an introduction to what is economics and the different types of economic systems not only in the United States but also globally. Additionally, this course will also break down microeconomics, business organizations and macroeconomics. When studying microeconomics, we will investigate what supply and demand is, how consumers and producers communicate through the price system, and how and why market competition affects us every time we shop. During the chapter on business organizations, students will be able to learn about the different forms of business organizations in the United States. Finally, we will study the elements of macroeconomics. Students will learn about the business cycle and factors that influence it, and how economists measure economic performance. This course also includes the study of world geography.