2021-2022 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

	Course Requirements Grades 9-12
English	**4 credits** English 9 10th-12th Grade: 3 Semester credits of writing, 2 semester credits of literature, and 1 semester credit of communication
Social Studies	**4 credits** American History I and II, World History, US Government (.5), World Geography (.5)
Mathematics	**3 credits** HS Algebra, Advanced Algebra, Geometry
Science	**3.5 credits** Earth Systems 9 (.5 credit), Physical Science 9, Biology, either Chemistry or Applied Chemistry
Physical Education and Health	**1.5 credits** Physical Education 9 (.5 credit), Physical Education 10 (.5 credit), Health 10 (.5 credit)
Electives	**10 credits** 1.0 from visual, music, or media arts (A) 1.0 from Career and Technical (CTE)
Total Credits	**26.0** Students must register for a minimum of seven (7) credits per year
Testing	The graduation-required assessment for 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.

Course Requirements for:		
6th Grade	**7th Grade**	**8th Grade**
English 6	English 7	English 8
Science 6	Life Science	Earth Science
Math 6 or Pre-Algebra	Pre-Algebra or Middle School (MS) Algebra	Middle School (MS) Algebra or High School (HS) Algebra
Social 6	Social 7	Social 8
Choir and/or Band	Choir and/or Band	Choir and/or Band
Physical Education 6	Physical Education 7	Physical Education 8 (Semester)
Art 6 (Semester)	Computer Skills I (Semester)	Computer Skills II (Semester)
STEM 6 (Semester)	Art 7 (Semester)	Ag 8 (Semester)
Computers 6 (Semester)	STEM 7 (Semester)	FACS 8 (Semester)
Health 6 (Semester)	FACS 7 (Semester)	Health 8 (Semester)
		Spanish 8 (Semester)

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.
    - Distinction courses cannot be taken pass/fail.
- Enroll in three different departments for distinction courses.

English
College English – Composition I (1.0)
College English – Composition II (1.0)
Survey of Children's Literature (1.0)
American Literature II (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)

Social Studies
Sociology (1.0)
Psychology (1.0)

Agriculture and Industrial Technology
Pre-Engineering (2.0)
Veterinary Science (1.0)
Principals of Animal Science (1.0)

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

Agriculture Metals and Machining II
Agriculture Carpentry & Structures II

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

Business Education
Applied Principals of Bookkeeping (2.0)
Introduction to Computers 1 (1.0)

FACS
Hospitality, Tourism and Recreation (1.0)
Principals of Food Science (1.0)

Foreign Language
Intermediate Spanish I (2.0)
Intermediate Spanish II (2.0)

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

CAREER PATHWAYS AND COURSES

Minnesota Career Fields and Clusters

Below is the career field, clusters, and pathways as presented by MDE. Below each pathway you will see a list of elective classes currently offered at Hayfield High School that would help prepare an individual student for the career field/pathway of their choosing:

**Represent College Now course

Agriculture, Food, and Natural Resources

- Agriculture: Principles of Animal Science**, Animal Science, Exploring Agriculture, Horticulture, Leadership, Veterinary Science, Wildlife Management
- Business Education: Accounting**, Advanced Accounting
- FACS: Principles of Food Science**, Personal Health and Nutrition
- Science: Anatomy/Physiology, General Biology I**, General Biology**, General Chemistry I**, General Chemistry II**, Physics

Arts, Communications, and Information Systems

- Agriculture: Horticulture
- Art: Introduction to Art, Drawing, Painting, Graphics, Independent Art I, Independent Art II
- Business Education: Computer Application I**, Computer Applications II, Multimedia I, Multimedia II, Webpage Design

Business, Management, and Administration

- Art: Graphics
- Business Education: Computer Applications I**, Computer Applications II, Accounting, Advanced Accounting, Multimedia I, Multimedia II, Webpage Design
- English: Business/Technical Writing, Public Speaking
- FACS: Hospitality, Tourism and Recreation; Principles of Food Science**, Foods I, Foods II
- Math: Fundamentals of Statistics**

Engineering, Manufacturing, and Technology

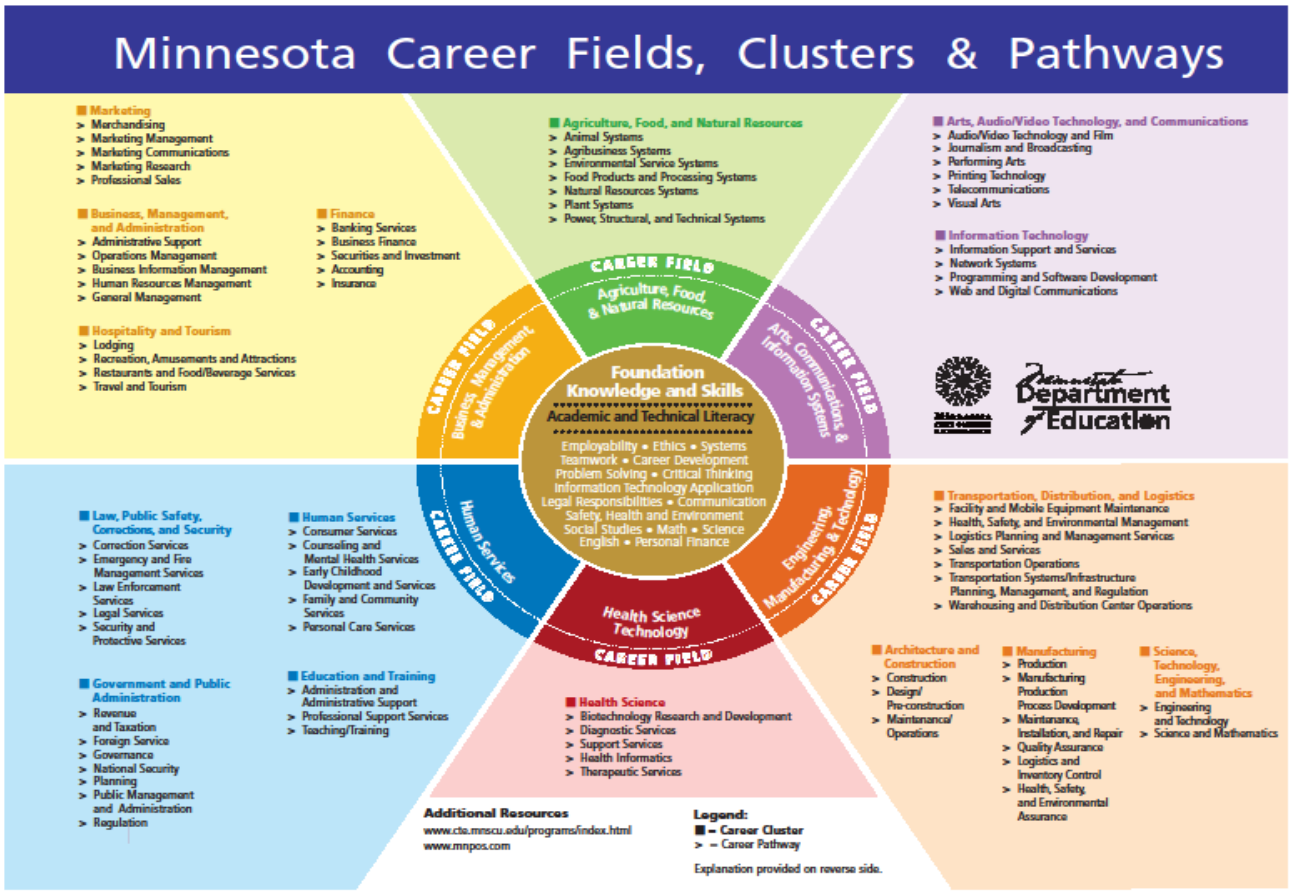
- Agriculture: Ag. Carpentry and Construction, Ag. Metals and Machining, Exploring Agriculture and the Trades, Pre-Engineering Design, STEM Applications
- Math: College Algebra**, Trigonometry**, Calculus, Fundamentals of Statistics**
- Science: Physics, Forensics

Health, Science, and Technology

- Math: College Algebra**, Trigonometry**, Calculus, Fundamentals of Statistics**
- Science: Anatomy/Physiology, General Biology I**, General Biology II**, General Chemistry I**, General Chemistry II**, Forensics, Physics

Human Services

- FACS: Education Foundations**, Child Development
- Foreign Language: Spanish I, Spanish II, Spanish III**, Spanish IV**
- Social Studies: Psychology, Sociology


Minnesota Career Fields, Clusters & Pathways
Marketing
> Merchandising
> Marketing Management
> Marketing Communications
> Marketing Research
> Professional Sales
Business, Management, and Administration
> Administrative Support
> Operations Management
> Business Information Management
> Human Resources Management
> General Management
Hospitality and Tourism
> Lodging
> Recreation, Amusements and Attractions
> Restaurants and Food/Beverage Services
> Travel and Tourism
Finance
> Banking Services
> Business Finance
> Securities and Investment
> Accounting
> Insurance
Agriculture, Food, and Natural Resources
> Animal Systems
> Agribusiness Systems
> Environmental Service Systems
> Food Products and Processing Systems
> Natural Resources Systems
> Plant Systems
> Power, Structural, and Technical Systems
Arts, Audio/Video Technology, and Communications
> Audio/Video Technology and Film
> Journalism and Broadcasting
> Performing Arts
> Printing Technology
> Telecommunications
> Visual Arts
Information Technology
> Information Support and Services
> Network Systems
> Programming and Software Development
> Web and Digital Communications
CAREER FIELD
Agriculture, Food, & Natural Resources
CAREER FIELD
Business, Management, & Administration
CAREER FIELD
Arts, Communications & Information Systems
Foundation Knowledge and Skills
Academic and Technical Literacy
Employability • Ethics • Systems
Teamwork • Career Development
Problem Solving • Critical Thinking
Information Technology Application
Legal Responsibilities • Communication
Safety, Health and Environment
Social Studies • Math • Science
English • Personal Finance
CAREER FIELD
Human Services
CAREER FIELD
Health Science Technology
CAREER FIELD
Engineering, Manufacturing & Technology
Department of Education
Law, Public Safety, Corrections, and Security
> Correction Services
> Emergency and Fire Management Services
> Law Enforcement Services
> Legal Services
> Security and Protective Services
Government and Public Administration
> Revenue and Taxation
> Foreign Service
> Governance
> National Security
> Planning
> Public Management and Administration
> Regulation
Human Services
> Consumer Services
> Counseling and Mental Health Services
> Early Childhood Development and Services
> Family and Community Services
> Personal Care Services
Education and Training
> Administration and Administrative Support
> Professional Support Services
> Teaching/Training
Health Science
> Biotechnology Research and Development
> Diagnostic Services
> Support Services
> Health Informatics
> Therapeutic Services
Transportation, Distribution, and Logistics
> Facility and Mobile Equipment Maintenance
> Health, Safety, and Environmental Management
> Logistics Planning and Management Services
> Sales and Services
> Transportation Operations
> Transportation Systems/Infrastructure Planning, Management, and Regulation
> Warehousing and Distribution Center Operations
Architecture and Construction
> Construction
> Design/ Pre-construction
> Maintenance/ Operations
Manufacturing
> Production
> Manufacturing Production Process Development
> Maintenance, Installation, and Repair
> Quality Assurance
> Logistics and Inventory Control
> Health, Safety, and Environmental Assurance
Science, Technology, Engineering, and Mathematics
> Engineering and Technology
> Science and Mathematics
Additional Resources
www.cte.mnscu.edu/programs/index.html
www.mnpos.com
Legend:
■ – Career Cluster
> – Career Pathway
Explanation provided on reverse side.

POST HIGH SCHOOL PLANNING

Type of College	Schools or Branches	Description	General Admission Requirements
Community Colleges, Technical Colleges, and Trade Schools	Examples in Minnesota: Rochester Community and Technical College (RCTC), Riverland, SE Technical College	These colleges are referred as a 2-year school. Students can work towards a 1-2 degree/certification program directly related to an occupation they can enter upon graduation. Others take general courses in order to transfer courses in order to transfer to a 4-year college. ***www.minnstate.edu***	High School Diploma or GED certificate May require ACCUPLACER.
Minnesota State Colleges and Universities	Bemidji State, Metropolitan State, Mankato State, Moorhead State, St. Cloud State, Southwest State, Winona State	These colleges are referred to as 4-year schools. They have specific admission requirements that go beyond high school graduation requirements. High School GPA, test scores, ACT or SAT and school/community involvement are used for admission. ***www.minnstate.edu***	**English**: 4 years **Math:** at least 3 years **Science: at** least 3 years **Social Studies:** at least 3 years **Fine Arts:** at least 1 year **World Language** at least 2 years
University of Minnesota	Twin Cities (main campus), Crookston, Duluth, Morris, Rochester	The University of Minnesota is a system of 4-year schools. They have specific admission requirements that go beyond high school graduation requirements. Your high school GPA, test scores, ACT or SAT, and school/community Involvement are used for admission. ***www.umn.edu***	**English:** 4 years **Math**: 4 years **Science:** At least 3 years **Social Studies**: At least 3 years **World Language** At least 2 years
University of Wisconsin	Eau Claire, Green Bay, La Crosse, Madison, Milwaukee, Oshkosh, Parkside, Platteville, River Falls, Stevens Point, Stout, Superior, Whitewater	The University of Wisconsin is a system of 4-year schools. They have specific admission requirements that go beyond high school graduation requirements. Your high school GPA, test scores, ACT or SAT and school/community involvement are used for admission. ***www.wisconsin.edu***	**English**: 4 years **Math**: at least 3 years **Science**: at least 3 years **Social Studies**: at least 3 years **Fine Arts**: at least 1 year **World Language**: at least 2 years
Private Colleges and Universities	Throughout Minnesota including: College of St. Benedict's, Concordia, Gustavus Adolphus, Hamline, St. Mary's of Minnesota, St. Olaf, St Thomas, St. John's	These private colleges and universities are 4-year school. They have specific admission requirements that go beyond high school graduation requirements. Your high school GPA, test scores, and school/community involvement are used for admission. ***www.mnprivatecolleges.org***	**English:** 4 years **Math:** 3 years **Science:** 3 years **Social Studies:** 3 years **Fine Arts:** 1 year **World Language**: 2 years

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.

NCAA Athletic Eligibility College-Bound Student Athlete Division I or II

If you are planning to be a college athlete at either a Division I or Division II school, you will need to register with the NCAA Eligibility Center at ***https://web3.ncaa.org/ecwr3/***. NCAA recommends you register in your sophomore year with a free profile. You can later upgrade to the paid profile once you decide you are going D1 or D2. You will also need to make sure you meet the initial eligibility requirements. Please review the sliding scale for gpa and ACT score. In addition, student athletes will need to make sure they take 16 core courses.

- 16 Core Courses: 4 years of English, 3 years of Math (Algebra I or higher), 2 years of natural/physical science, 2 years of social science, 1 extra year of English, math, or science, and 4 additional core courses from any area listed above and/or foreign language, philosophy, or comparative religion. Division I athletes will be required to complete 10 of the core courses prior to their seventh semester (before senior year). Seven of the 10 courses must be in combination of English, math, natural or physical sciences.

COLLEGE NOW COURSES

These college courses will be offered for the 2021-22 school year at Hayfield High School. *Class offerings are dependent upon student enrollment in a course.*

SENIORS—Seniors enrolling in College Now courses must score appropriately on the Accuplacer, ACT, or MCA tests. Please see the guidance counselor or principal 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 guidance counselor or principal for more information regarding test scores.

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

GRADES 10, 11 AND 12 MAY REGISTER FOR THESE COURSES

BUSO 2641 – APPLIED PRINCIPLES OF BOOKKEEPING
Pre-requisite: Computer Applications I and Computer Applications II
3 Credits (1 credit for high school)
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).
This course is comparable to Hayfield High School's Accounting course.

BUSO 1620 – INTRODUCTION TO COMPUTERS
2 Credits (.5 credit for high school)
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.
This course is comparable to Hayfield High School's Computer Application I.

EDUC 1100 – EDUCATIONAL FOUNDATIONS
3 Credits (2 Lecture, 1 Field Experience)
Grading System: A-f: Course offered through Riverland Community College

In this course, students will explore the education profession. Students will 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, 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. Finally, students will complete a 10-hour field experience and begin an electronic teaching portfolio. Designed to meet State of Minnesota educational foundations requirements for licensure.

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, nutrition & health, 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.

GRADES 11 AND 12 MAY REGISTER FOR THESE COURSES

BIOL 1220 – GENERAL BIOLOGY I

4 Credits (.5 credit for high school)
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, and interactions among organisms. (Prerequisites: None). (4 C/3 lecture, 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)
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 carry out basic life processes (e.g., gas exchange, nutrition). Students study the comparative anatomy and physiology and the evolutionary history and relationships among organisms, addressing key adaptations to survival of selected organisms. (Prerequisites: None). (4 C/3 lecture, 2 lab). MNTC: Goal 2/Critical Thinking, Goal 3/Natural Sciences.

CHEM 1000 – INTRODUCTION TO CHEMISTRY

4 Credits (1 Credit for high school)
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.

ENGL 1101 – COMPOSITION I

3 credits (0.5 credit for high school graduation)
Prerequisites: A grade of C or higher in ENGL 0960 or appropriate placement score AND High School Research Writing
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.

ENGL 1105 – COMPOSITION II: RESEARCH

3 credits (0.5 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.

MATH 1110 – COLLEGE ALGEBRA

3 credits (0.5 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.

MATH 1120 – TRIGONOMETRY

4 credits (0.5 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.

SPAN 2001 – INTERMEDIATE SPANISH I

4 credits (1 credit for high school graduation)
Grading System A-F; Course offered through Riverland Community College

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.

GRADE 12 MAY REGISTER FOR THESE COURSES

CCLS 1010 – EXPANDED FIRST YEAR EXPERIENCE

3 Credits
All Seniors Taught in Homeroom

This course introduces proven strategies and applications to help students achieve greater success in postsecondary programs and life. Topics include, but are not limited to, time management, goal setting, learning strategies, critical thinking, communication skills, diversity awareness, health and wellness, college and community resources, and financial planning. This course introduces students to making choices that promote responsibility, motivation, interdependence, and self-awareness.

CHEM 1201 – GENERAL CHEMISTRY I

Prerequisite: College Algebra (Math 1110)
5 Credits (.5 credit for high school), Course offered through Riverland Community College

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

Prerequisite: General Chemistry I (CHEM1201) and MATH 1110
5 Credits (.5 credit for high school), Course offered through Riverland Community College

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).

ENGL 2241 – AMERICAN LITERATURE

3 Credits (.5 credit for high school)
Grading System A-F: Course offered through Riverland Community College

This course explores developments in American Literature between 1492 and 1865. Students will explore both historical and formal developments affecting literature of this period, as well as similarities/differences among the works covered. Specific issues addressed may include early written representations of America, the influence of Puritanism of American writers, important documents of the Federalist period, and the American Romantic movement including Transcendentalism.

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.

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.

SPAN 2002 – INTERMEDIATE SPANISH II

4 credits (1 credit for high school graduation)
Grading System A-F; Course offered through Riverland Community College

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.

AGRICULTURE TECHNOLOGY EDUCATION

FFA is considered an integral part of the curriculum. Each student who enrolls in Agriculture classes is considered a member of the Hayfield FFA Chapter and may take part in many of the career development events, leadership opportunities, field trips, contests, and recreational activities available through FFA and the Agriculture department.

STEM 6

(Semester) Grade 6 Required. **Student lab fee associated with this course.**

This class is the first exploratory course in STEM. Students will be learning about the safe and correct methods for using woodworking tools and machines. Linear measurement is another concept that will be stressed in this class. Each student is required to have a tape measure for this class. Safety glasses may be purchased through the school.

ANIMAL, FOOD, AND NATURAL RESOURCES 7 (7th Grade)

(Semester) Grade 7 Required. **Lab fees will be assessed for this course.**

This class is an exploratory course in AFNR Pathways. This class will focus on the Power and Structural Systems Pathway. Some topics will include woodworking, electrical, small engine work, engineering, and metals. Within each unit you will gain information about careers, resources, tools I.D and the proper operation of equipment. Concepts of Science, technology, engineering, and math will be incorporated within each unit as well. Safety glasses may be purchased through the school if the need arises.

ANIMAL, FOOD, AND NATURAL RESOURCES 8 (8th Grade)

(Semester) Grade 8 Required. **Lab fees will be assessed for this course.**

This class will help prepare for life after high school by having fun exploring the diverse Agriculture areas of FFA, food science, agronomy, leadership, animal science, horticulture, natural resources, and careers. AFNR 8 is an introductory course designed to familiarize students with how Agriculture impacts our lives every day.

AGRICULTURE CARPENTRY AND STRUCTURES I (ACS I)

(.5 Credit, Semester) Grades 9-12 elective, offered 2022-2023. **Lab fees will be assessed for this course**

The purpose of this class is to provide exposure into woodworking, basic usage of techniques and tools. With gaining knowledge of the trades and skills involved in the field of carpentry in the classroom, as well as taking the knowledge learned and applying it through hands on application. With the hands-on portion, students will be building small woods projects as well as small structures-these two put together will allow students to gain a foundational skill set of the different components that make up this industry. Some of the topics that will be covered in this class, but not limited to include careers, shop safety, wood selection, tool use, safety, hardware use, light wood frame construction etc.

AGRICULTURE CARPENTRY AND STRUCTURES II (ACS II)

(.5 Credit, Semester) Grades 9-12 elective, offered 2022-23. **Lab fees will be assessed for this course.**
Prerequisite: Agriculture Carpentry and Structures I (ACS I)

This class will expand your knowledge and skills set from ACS I. ACS II will cover the framing, Sheetrocking, electrical, concrete work, roof framing, window work, shingling, and insulating. This course will fabricate a larger structure in class from blueprint. The purpose of this course is to support and build your foundational skills from ACS I. The end of this course you will be able to properly build a small shed.

AGRICULTURAL ECONOMICS

(.50 Credit, Semester) Grades 11-12 Elective—SPRING SEMESTER ONLY

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.

AGRICULTURE METALS AND MACHINING I

(.50 Credit, Semester) Grades 9-12 Elective, offered in 2021-22→**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

(.50 Credit, Semester) Grades 9-12 Elective, offered in 2021-22. **Lab fees will be assessed for this course.**

This course in metalworking will teach you to hone in on 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 the 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.

HOME/AUTO CARE AND REPAIR

(.5 Credit, Semester) Grades 9-12 Elective **Student lab fee will be assessed for this course.**

This course is designed to provide the student with basic knowledge and experience in performing basic home and auto repair and maintenance tasks. This class will cover such topics as fasteners, building materials, wall coverings, roof and gutters, doors and windows, cabinets concrete, wood finishes, and electrical. Other topics that will be covered in this class will include basic maintenance and understanding of vehicles. This class will be a combination of textbook learning and lab exercises. Each student is required to have a tape measure and safety glasses. Safety glasses may be purchased through the school.

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.

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.

SMALL ENGINES

(.5 credit, Semester) Grades 11-12, offered in 2021-2022. **Lab fees will be assessed in 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 2nd half of the semester you will be able to work on your own personal engines once labs have been completed.

SUPERVISED AGRICULTURAL EXPERIENCE

(.25 Credit) Incoming 9th grade students – present 11th grade students
Prerequisite: **Must** be enrolled in Agricultural Classes for the upcoming year

This course is available to all incoming ninth through twelfth 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.

SUMMER VEGETABLE PRODUCTION

(.25 Credit) Incoming 9th—12th grade students

This summer course will run a total of 3 weeks. You will be able to understand the proper layout of growing vegetable crops in a garden box. We will discuss the structure of the crops, proper seed sewing, and the use of proper tools and management of the crops. Each class member will have a rotational schedule of taking care of the crops.

MINNESOTA WILDLIFE AND NATURAL RESOURCES

(.5 Credit, Semester) Grades 9-12 Elective, offered 2020-2021.
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 takin this course. Opportunity to join the High School Trap team is also available.

ART

ART 6
(Semester) Grade 6 Required

Art 6 is an introductory course to the elements of art, principles of design, different media, and aesthetics. The main concepts that will be covered are Pop Art, color theory, perspective drawing, measurements/proportions, pottery, illustration, and art criticism.

ART 7
(Semester) Grade 7 Required

Art 7 provides further study of the elements of art and principles of design, as well as aesthetics. Students will do an art movement project that involves researching such movements as Surrealism, Impressionism, Expressionism, Abstraction, or Pop Art. Other concepts for the class include human proportions, optical illusions, pottery, silhouettes, art criticism, viewpoints, and typography.

INTRODUCTION TO ART (A)
(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 (A)
(.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 details. 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 (A)
(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 (A)
(.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 (A)

(.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

COMPUTERS 6
(1 Semester, every day) Grade 6 Required

Time will be spent learning the keyboard using the touch system and then reinforcing that with drills to increase speed and accuracy. Basic applications using the MS Office software will be introduced. These will include typing letters, memos, reports, charts etc. MS Word, MS Excel, and MS PowerPoint will be used for application problems.

COMPUTERS 7
(1 Semester, every day) Grade 7 Required

Time will be spent learning the keyboard using the touch system and then reinforcing that with drills to increase speed and accuracy. Basic applications using the MS Office software will be introduced. These will include typing letters, memos, reports, charts, flyers, etc. MS Word, MS Excel, and MS PowerPoint will be used for application problems. Students will also be exposed to basic HTML coding and a brief unit of Computer Science.

COMPUTERS 8
(1 Semester, every day) Grade 8 Required

This course is designed to help the student integrate the use of the computer into daily life. Computers 8 will enable the students to learn new ways to improve the appearance of reports, letters, spreadsheets, and other applications as the students do more advanced work than done previously. Document formats and skill development will be stressed. Additionally, this course will focus on appropriate and efficient use of current communication technologies including, but not limited to, the Internet, web sites, blogs, wikis, and podcasting. Many post-secondary schools and businesses are operating primarily with technology and this course will serve as an introduction to the tools that are now the norm in our society.

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

Personal use is one of the two main purposes for taking this course. Accounting will prepare you for the personal uses of record keeping. Business use is the other purpose for taking Accounting. Every type of business keeps records. Today, there are excellent career opportunities for bookkeepers and accountants. Whether you want to be a future business owner, a manager, or an accountant, this course will prepare you in the basics of accounting principles. Internet Access is required as the majority of the homework will be done online. **See introduction to BUSO 2641 – APPLIED PRINCIPLES OF BOOKING for college credit (on page 7).**

ADVANCED ACCOUNTING
(1 Credit, Full Year) Grades 11-12 Elective
Pre-Requisite: Accounting I

Advanced accounting is a second-year course that builds upon what was learned in first-year accounting and would apply toward 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.

This course is intended for the student who has one or more of the following objectives in mind:

- Want to know more about business procedures and records.
- Plan to go to college and major in any phase of business.
- Plan to seek employment as a bookkeeper/accountant after high school.
- Plan possible career in programming or working with computers in business.

Topics included in this course are review of accounting principles; departmentalized accounting; accounting for the partnership and corporation; cost accounting; and managerial decision making. Internet Access is required as a majority of the homework is done online.

COMPUTER APPLICATIONS I

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

This course is a must in this age of computers. This course will cover advanced applications of Microsoft Word, Excel, PowerPoint, and Publisher. Every effort is made to keep this course practical so we cover areas that students can use during their high school years, as well as their adult life.

COMPUTER APPLICATIONS II

(.5 Credit, Semester) Grades 10-12 Elective
Prerequisite: Computer Applications I

The first half of this class will be spent on an Introduction to Adobe Photoshop where students will create and edit images. The second half of the course will be spent on Desktop Publishing and basic movie creation. Students are limited only by their creativity in this class. 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.

FINANCIAL AND MANAGERIAL ACCOUNTING

(1 Credit, Full Year) Grades 11-12 Elective
Pre-Requisite: Accounting I
P/NC option available, see page 5

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.

MULTIMEDIA APPLICATIONS 1A (A)

(.5 Credit each Semester) Grades 11-12 Elective
Pre-Requisite: Computer Applications I and preferably Computer Applications II
Lab fees will be assessed for this course.

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, Photo Story, Windows Movie Maker, Adobe Photoshop, Premier Pro, Encore, and other programs. Video projects such as a public service announcement and an informative video project will be created, and the final project is the creation of the senior memory DVD.

MULTIMEDIA APPLICATIONS IIA (A)

(.5 Credit each Semester) Grade 12 Elective
Pre-Requisite: Multimedia Applications
Student 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 video and DVD creation. Students will do some script writing and continue using storyboarding in video creation. Students will also videotape school events and create DVDs for public sale. Students will do advanced work in Adobe Photoshop, Adobe Premier Pro, and Adobe Encore. Students will be expected to create their own video portfolio upon completion of this class.

WEB PAGE DESIGN

(.5 Credit, Semester) Grades 10-12 Elective
Pre-Requisite: Computer Applications I

Internet applications and the history of the Internet will be explored through hands-on, self-paced instruction. Students will discover how to effectively complete an Internet search and will analyze websites for accuracy, ease of use, relevance, etc. Students will learn HTML and use a web page editor to design and construct web pages with graphics, tables, frames, and hyperlinks. Students will design and develop a personal web page.

BUSO 2641 – APPLIED PRINCIPLES OF BOOKKEEPING

Pre-requisite: Computer Applications I and Computer Applications II
3 Credits (1 credit for high school)
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).
This course is comparable to Hayfield High School's Accounting course.

BUSO 1620 – INTRODUCTION TO COMPUTERS

2 Credits (1 credit for high school)
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.
This course is comparable to Hayfield High School's Computer Application I.

ENGLISH

ENGLISH 6
(Full Year) Grade 6 Required

English 6 consists of the study of basic grammar and literature. Grammar concepts are covered through writing, assignments based on literature read in class, and various other activities. Reading material includes novels both fiction and non-fiction. Critical thinking skills are developed, and independent thinking is encouraged through the analysis of materials read in class and other activities. Spelling and vocabulary are also covered to improve reading and writing skills.

ENGLISH 7
(Full year) Grade 7 Required

English 7 consists of the study of basic grammar and literature. Grammar concepts are covered using DOL, assignments based on literature read in class, and various other activities. Reading material includes poetry, short stories, and novels, both fiction and non-fiction. Critical thinking skills are developed, and independent thinking is encouraged through the analysis of materials read in class and other activities. Spelling and vocabulary are also covered to improve reading and writing skills.

ENGLISH 8
(Full year) Grade 8 Required

English 8 is designed to cover spelling, grammar, vocabulary, writing, literature, and some study skills. Grammar concepts are presented through Daily Oral Language, written activities, and various materials. Leveled spelling tests are given. Various reading materials are used to continue developing students' reading skills as preparation for the MCA-II test.

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.

High School Literature Options

AMERICAN LITERATURE
(0.5 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.

BRITISH LITERATURE
(0.5 Credit, Semester) Grade 10 - 12

This course will include influential British texts including novels, poetry, and plays. Students will read, discuss, analyze, and respond to texts to develop an understanding and appreciation of classic British texts, many of which formed the foundation of what is considered "classic" literature and influenced our modern understanding of what makes great writing. Possible texts include: *The Canterbury Tales, Animal Farm, The Lord of the Flies,* various poems, and works by influential authors such as Jane Austen, Charles Dickens, and William Shakespeare.

WORLD LITERATURE
(0.5 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.

NONFICTION LITERATURE
(0.5, Semester) Grade 10 - 12

This course will focus on developing skills for reading non-fiction effectively, including newspapers, technical manuals, contracts, research articles, biographies, and textbooks. This class is not designed as a remedial reading course. It is meant to prepare students with the day-to-day and college readiness skills they will need to be successful in the future when most of the text they will encounter will be non-fiction. 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.

20TH CENTRUY LITERATURE
(0.5 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

CREATIVE WRITING I
(0.5 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.

CREATIVE WRITING II
(0.5 Credit, semester) Grade 10-12

This course is a continuation of Creative Writing. Building on the skills learned in that class, students will delve into their creative realm, exploring various aspects of creative writing such as plot and character development, figurative language, and narrative style.

JOURNALISM
(0.5 credit, semester) Grade 10-12

This course will explore the various aspects of producing a newspaper. Collaborating with classmates, students will investigate various topics in and around the Hayfield Schools community and report events in a monthly newspaper. Students will conduct interviews and report current events, opinions, sports, and more while learning about the techniques and ethics of journalism, both print and digital.

RESEARCH WRITING
(0.5 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.

FOUNDATIONS OF WRITING
(0.5 Credit, Semester) Grade 10—Enrollment based upon teacher referral*

This is a remedial, survey-style class designed for students who struggle with writing. The course will feature units based on each of the other writing courses offered (business/technical, research, creative, etc.) with a heavy emphasis on the basics of grammar, sentence structure, and organization. Students will develop the foundational skills necessary for success in future writing courses and get a taste of each of the options offered to guide future course selections.

BUSINESS/TECHNICAL WRITING
(0.5 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.

High School Communication Options

COMMUNICATION
(.50 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.

PUBLIC SPEAKING
(.50 Credit, Semester) Grades 10-12

America's greatest fear could become your greatest strength after taking this class! We will explore several different types of speeches for all sorts of different purposes, including humorous, serious, persuasive, and informational speeches. You will write some of your own speeches, and some will already be written for you. Whether you already love the spotlight, or you rarely even raise your hand in class, this course will give you a chance to polish your public speaking skills.

High School English Elective

YEARBOOK
(1 Credit, Full year) Grades 10-12 Elective

In this course, students will have the opportunity to work hands-on in creating the school yearbook. Students will also learn the basics of photography and journalism. Many skills such as planning, organizing, advertising, writing, editing, designing layouts, and proofreading will be taught. Each student will have the chance to experience various aspects in the creative process and will earn a credit while capturing key moments at HHS. Due to the amount of writing and editing, students wishing to take Yearbook must have approval from current English teachers. Students with a creative eye in photography, or looking to develop one, are also encouraged to sign up for this course.

College Credit Options

ENGL 1101 – COMPOSITION I

3 credits (0.5 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 1105 – COMPOSITION II: RESEARCH

3 credits (0.5 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 2241 – AMERICAN LITERATURE

3 Credits (.5 credit for high school)
Grading System A-F: Course offered through Riverland Community College

This course explores developments in American Literature between 1492 and 1865. Students will explore both historical and formal developments affecting literature of this period, as well as similarities/differences among the works covered. Specific issues addressed may include early written representations of America, the influence of Puritanism of American writers, important documents of the Federalist period, and the American Romantic movement including Transcendentalism.

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

FACS 7
(Semester) Grade 7 Required

This co-educational course is designed to familiarize students with themselves regarding grooming skills and making a positive impression. Basic responsibilities related to families, childcare, organizing living space, and personal nutrition choices are also covered. Sewing construction and food preparation allow students to work effectively in lab situations.

FACS 8
(Semester) Grade 8 Required

This co-educational course explores career choices and their effect on personal goals and values. Simulations include creating an adult budget and making wise consumer choices. Students complete a sewing project and analyze food advertising while using proper food preparation techniques to create personal nutritional guidelines.

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

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

EDUC 1100 – EDUCATIONAL FOUNDATIONS
3 Credits (2 Lecture, 1 Field Experience)
Grading System: A-f: Course offered through Riverland Community College

In this course, students will explore the education profession. Students will 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, 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. Finally, students will complete a 10-hour field experience and begin an electronic teaching portfolio. Designed to meet State of Minnesota educational foundations requirements for licensure.

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 fee may be assessed for this course.**

Become familiar with the basic food principles and food preparation for a crowd or for one. Students should be able to better plan, prepare, and serve foods after serving Thanksgiving dinner. Another unique opportunity allows the student to plan, construct, and decorate a gingerbread house for Christmas. Topics emphasized throughout the course include safety precautions, consumer cost comparisons, small appliance use, and proper storage and handling techniques. This course is capped at 20 students per section.

FOODS II
(.5 Credit, Semester) Grades 9-12 Elective, **Lab fee may 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. This course is capped at 20 students per section.

FOODS III

(1 credit, full year) Grades 11-12, **Labe fee may be assessed for this course.**
Prerequisite: Foods 2

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, nutrition & health, 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.

HOSPITALITY, TOURISM AND RECREATION

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

Hospitality Tourism & Recreation is a project-based course designed to introduce the student to the various aspects of the hospitality industry. The hospitality industry is the third largest employer in the nation and has ties to the rest of the world. This class is designed to give the student basic skills and knowledge needed in lodging, recreation, travel and destination planning, event planning, sports entertainment and management, and theme park/exhibition occupations.

PERSONAL HEALTH & NUTRITION

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

Personal health management and nutrition are in the daily news. Gain the knowledge to evaluate personal dietary practices and their influence on your health maintenance and disease prevention. Explore nutritional foods, diets, and preparation methods through cooking labs.

STRESS MANAGEMENT - Lab fee may be assessed for this course.

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

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. Personal interests and hobbies are pursued mainly for pleasure and are excellent stress busters. Students will help create their own curriculum by exploring and choosing stress free activities that they enjoy – including, but not limited to crafts, collecting, gardening, games, outdoor living, yoga, etc.

FOREIGN LANGUAGE

SPANISH 8
(Semester) Grade 8 Required

Spanish 8 will introduce the Spanish language to the 8th grade student. It will prepare the learners for Spanish 1, which is offered in high school. The four basic language skills (reading, writing, listening, and speaking) are emphasized. Basic conversation, cultural concepts, and a select number of vocabulary words will be covered.

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 10-12 Elective
Prerequisite: Spanish I

This course begins with a brief review of Spanish I. Spanish grammar and vocabulary are practiced through oral and written exercises and activities. Present, future, and past tenses will be covered.

SPAN 2001 – INTERMEDIATE SPANISH I
4 credits (1 credit for high school graduation)
Grading System A-F; Course offered through Riverland Community College

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.

SPAN 2002 – INTERMEDIATE SPANISH II
4 credits (1 credit for high school graduation)
Grading System A-F; Course offered through Riverland Community College

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.

MATH

6th	7th	8th	9th	10th	11th	12th
Math 6	Pre-Algebra	MS Algebra	HS Algebra	Adv. Algebra	Geometry	College Algebra Stats
Pre-Algebra	MS Algebra	HS Algebra	Adv. Algebra	Geometry	College Algebra	Stats

Note: If a student wishes to "double-up" on math classes during a single school year (in order to get into the more advanced math classes offered at Hayfield High School), it is strongly recommended by the department that the student register for Advanced Algebra and Geometry together after successful completion of Algebra and upon teacher recommendation.

MATH 6

Math 6 is designed to transition students successfully into the middle school mathematics environment. Students will focus on improving their problem-solving skills as well as their mental math and estimation skills using whole number operations. The course curriculum includes performing basic operations using whole numbers, fractions, and decimals along with solving equations involving a variable.

PRE-ALGEBRA

(Full year) One Math course required for Grade 7

This course strengthens the use of whole numbers, decimals, fractions, and mixed numbers in problem solving. Rational numbers, integers, and algebraic concepts are introduced. Other topics include using data and statistics, graphs, ratios, proportions, percent's, shapes, measurements, area, and probability.

ALGEBRA

(Full year) One Math course required for Grade 7

Pre-Algebra is an accelerated seventh grade course for outstanding math students. Students will be screened for admittance. This course will provide the students with an introduction to basic algebra concepts. The main topics covered will include adding and subtraction integers, simplifying numerical and algebraic expressions, solving one variable equations, solving inequalities, graphing linear equations, solving square roots, and simplifying polynomials. We will also be reviewing concepts such as fractions, ratios, percent's, proportions, probability, data analysis, perimeter, area, and volume.

HS ALGEBRA

(1 Credit, Full year)
Prerequisite: C or better in Algebra 7 or recommendation of instructor

Algebra covers the following topics: algebraic patterns, algebraic order of operations, equations, proportional reasoning and statistics, linear functions, inequalities and absolute value, systems of equations and inequalities, exponents and exponential functions, polynomials and factoring, rational function, radical functions and coordinate geometry, probability, and functions and transformations. **If taken in 8th grade, this course counts toward graduation requirements.**

ADVANCED ALGEBRA

(1 Credit, Full year) Grades 9-12
Prerequisite: Passing grade in HS Algebra 8 and or HS Algebra

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.

GEOMETRY

(1 Credit, Full year) Grades 10-12
Prerequisite: Passing grade in Advanced Algebra

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.

MATH INTERVENTIONS (ALEKS)

(1 Credit) Grades 6-12
This course is not included in Cumulative GPA calculations.

Students identified as needing additional math instruction based upon academic performance and teacher recommendation will be registered for this math course in place of their regularly scheduled math course. Course content will be individualized using the online ALEKS instructional program.

MATH 1110 – COLLEGE ALGEBRA

3 credits (0.5 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.

MATH 1120 – TRIGONOMETRY

4 credits (0.5 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.

CALCULUS

(1 Credit, Full year) Grade 12 Elective
Prerequisite: C- or better in Pre-Calculus
P/NC option available; see page 5

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 AND know how to use it on the first day of class. **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.

MUSIC

JUNIOR HIGH CHOIR

(Full year) Grades 7-8 Elective
One music class is required in 7th and 8th grade

The Junior High choir is open to any 7th-8th grader who wants to enroll. Choir goals include improving the students singing skills and ability to read music. Choir members will have experience singing two and three-part music in a variety of styles. The choir performs at three concerts throughout the year and participates in a choir festival. Grades are based on daily participation, written work, and performances.

JUNIOR HIGH BAND

(Full year) Grades 7-8
One music course is required in 7th and 8th grade

The Junior High Band is open to all students who have completed Sixth Grade Band, the equivalent of Sixth Grade Band or at the director's discretion. The band meets three days each week for 45 minutes. The band performs at two concerts throughout the year. Attendance at these two concerts is mandatory. Grades are based primarily on the student's group or individual lessons, which are given each week.

CONCERT CHOIR (A)

(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 (A)

(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.

ON THE JOB TRAINING (OJT)

ON-THE-JOB-TRAINING I

(0.5-2.0 Credits, Full year, 2 class periods) Grade 11-12 Elective

On the Job Training (OJT) is a class where you obtain and maintain a job while enrolled in the class. During the class time, students will be asked to go to work. In alignment with the class, students will be asked to complete a variety of assignments that will improve their learning and knowledge of the workforce to become lifelong employees and be able to apply what they are learning from the assignments to their on-the-job work experience. Each student will need to work a minimum of 15 hours per week at their job to get full credit for this course. The student is responsible for securing a job which meets the requirements of the program ***PRIOR TO*** registration in this course.

ON-THE-JOB-TRAINING II

(0.5-2.0 Credits, Full year, 2 class periods) Grade 12 Elective
Prerequisite: On-the-Job Training I

On the Job Training (OJT) is a class where you obtain and maintain a job while enrolled in the class. During the class time, students will be asked to go to work. In alignment with the class, students will be asked to complete a variety of assignments that will improve their learning and knowledge of the workforce to become lifelong employees and be able to apply what they are learning from the assignments to their on-the-job work experience. Each student will need to work a minimum of 15 hours per week at their job to get full credit for this course. The student is responsible for securing a job which meets the requirements of the program ***PRIOR TO*** registration in this course.

ON-THE-JOB-TRAINING: CERTIFIED NURSING ASSISTANT PROGRAM

(.50-1.0 Credit, Full Year, offered 8th Hour) Grade 10-12 Elective (Must be 15 to take class, but 16 to pass certification exam)

This course is taught concurrently through FieldCrest 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 8th hour and students must provide their own transportation to and from FieldCrest 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.

PHYSICAL EDUCATION/HEALTH

The purpose of these courses is to examine and increase knowledge of healthy living. A major goal is for each student to take personal responsibility for their health and well-being while making healthy changes that will carry throughout their lifetime.

PHYSICAL EDUCATION

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

PHYSICAL EDUCATION 6

(All year) Grade 6 Required

PHYSICAL EDUCATION 7

(Semester every day) Grade 7 Required

PHYSICAL EDUCATION 8

(Semester every day) Grade 8 Required

PHYSICAL EDUCATION 9

(.5 Credit, Semester every day) Grade 9 Required

PHYSICAL EDUCATION 10

(.5 Credit, Full year every other day) Grade 10 Required

LIFETIME FITNESS

(1 Credit, Full year) Grade 11-12 Elective

This course is designed for a more long-term fitness program meant to slowly, yet efficiently, improve your health. Efforts are made to follow a healthy lifestyle (Diet, Exercise, Mental Health (and consistency with fitness sessions and activities. This class is meant to help you gain an overall fitness and health regime and at the same time we will work to improve and maintain the five elements of fitness: cardiovascular endurance, muscle strength, muscle endurance, flexibility, and body composition. We will complete fitness testing in the beginning to get a baseline of your fitness levels. This will include: 1-mile run, 1-minute sit-ups, 2 minutes of burpees, 1 minute of push-ups.
We will be exploring a variety of activities in this class that will include (but not limited to): Disc Golf, Fling Golf, Walking/Jogging, Biking, Bowling, Rhythm, Weightlifting, HIIT, Badminton, Pickleball, Basketball, Deck Tennis, Yard Games, Aerobics, Kickball, Snow Skiing, and Ultimate Frisbee.

ADVANCED LIFETIME FITNESS

(1 Credit, Full year) Grade 12 Elective
Pre-Requisite: Lifetime Fitness

This course will build off the principles and techniques of Lifetime 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.

HEALTH 6

(Semester) Grade 6 Required

HEALTH 8

(Semester) Grade 8 Required

This course is based on goal setting, decision making, and the wellness wheel. The 7 components of the wellness wheel will be explored as well as have goals formed for them.

HEALTH 10

(.5 Credit, Full year every other day) Grade 10 Required

This course will revisit and build from the topics covered in Health 8. Other topics that will be covered are current teen issues, sexual education, growth and development, and health advocacy. Physical Health topics will mesh with Physical Education class wherever possible.

SCIENCE

SCIENCE 6
(Full Year) Grade 6 Required

Students will explore the fundamentals of science inquiry, engineering, and other concepts of our chemical and physical world. Students will examine in detail the structure of the atom and will determine how law of motion effect our world. The physics portion of the course will allow students to explore how scientific inquiry and curiosity led to discoveries in gravity, forces, momentum, and energy.

LIFE SCIENCE 7
(Full year) Grade 7 Required

A course in basic life science designed to give the student an appreciation of life and living things. The course begins with the scientific method and moves to the study of the relationship between organisms and their environment. Next, we study the structure and function of cells. We finish by studying the anatomy and functions of the human body.

EARTH SCIENCE 8
(Full year) Grade 8 Required

Earth Science involves the study of nature's laws governing the natural environment. Specific topics to be studied will include space, weather, fossils, earthquakes, oceans, erosion, and plate tectonics. This class will include parts of the sciences of geology, oceanography, meteorology, and astronomy.

EARTH SYSTEMS 9
(.5) Credit, Semester) Grade 9 Required

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

PHYSICAL SCIENCE 9
(1 Credit, Full year) Grade 9 Required

Physical Science 9 is a 1 credit course that will explore the fundamentals of science inquiry, engineering, and other concepts of our chemical and physical world. Students will examine in detail the structure of the atom and will determine how this structure leads to an element's reactivity. The physics portion of the course will allow students to explore how scientific inquiry and curiosity led to discoveries in gravity, forces, momentum, and energy. Within each unit students will formulate ideas about engineering, technology, and cultural influence in science.

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 the 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 CHEMISTRY OR APPLIED CHEMISTRY PRIOR TO GRADUATION.
Students will be placed on department 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. Topics are covered at a slower pace with additional instruction. Students must be recommended by the school counselor and the science department prior to registering for this course. This course of chemistry is required for graduation.

CHEMISTRY
(1 Credit, Full year) Grades 11-12 Required

Chemistry is a course in which students' study and observe the properties of matter. Students will learn through lectures and laboratories. Topics covered include atomic structure, common elements and the periodic table, stoichiometry, gas laws, and acids and bases. This course is a very good introduction to innovative thinking expected at the college level. This course is required for graduation.

ANATOMY/PHYSIOLOGY
(1 Credit, Full Year) Grades 11-12 Elective
Prerequisite: C or better in Biology
P/NC option available; see page 5

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 to larger components, organs, and organ systems. The students will be required to know most bones and muscles of the human body. There will be corresponding, dissections to further student understanding.

BIOL 1220 – GENERAL BIOLOGY I
4 Credits (.5 credit for high school)
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, and interactions among organisms. (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)
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 carry out basic life processes (e.g., gas exchange, nutrition). Students study the comparative anatomy and physiology and the evolutionary history and relationships among organisms, addressing key adaptations to survival of selected organisms. (Prerequisites: None). (4 C/3 lect, 2 lab). MNTC: Goal 2/Critical Thinking, Goal 3/Natural Sciences.

CHEM 1000 – INTRODUCTION TO CHEMISTRY
4 Credits (1 Credit for high school)
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.

CHEM 1201 – GENERAL CHEMISTRY I
5 Credits (.5 credit for high school), 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), 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).

ASTRONOMY

(.5 Credit, Semester) Grades 11-12 Elective, Offered 2020-2021.

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 2021-2022
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, etc. Every student will be required to write a research paper and present for one day to the class.

FORENSICS

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

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. Some topics that may be covered include hair, drug, paint, fiber, and fingerprint, accelerant, or DNA analysis. Student's final exam will involve re-enacting a crime scene.

PHYSICS

(1 Credit, Full year) Grades 11-12 Elective
Prerequisite: Advanced Algebra
P/NC option available; see page 5

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. Hands-on experience is gained through class projects and competitions.

SOCIAL STUDIES

SOCIAL 6
(Full Year) Grade 6 Required

This course will use the first quarter for students to get adjusted to the middle school. We will focus on organization, study skills, note-taking, and test taking skills. Our remaining three quarters will focus on Minnesota History. We will study the geography and then bounce to different topics in Minnesota's historical timeline. We will infuse the skill sets learned in the first quarter throughout our study of Minnesota.

SOCIAL 7 – United States Studies (1800 to present)
(Full year) Grade 7 Required

This course focuses on the history of the United States through modern times. A few of the areas of study include colonial heritage, the revolution in the colonies, the forming of a new nation, Americans in the mid-1800s, migration and industry, and finally the United States in the modern era. Students will be doing a considerable amount work including notetaking, role-playing, presentations, small group work, and writing essays.

SOCIAL 8 – Global Studies
(Full year) Grade 8 Required

Students in Global Studies explore the regions of the world using geographic information from print and electronic sources. They analyze important trends in the modern world such as demographic change, shifting trade patterns, and intensified cultural interactions due to globalization. The Global Studies benchmarks pertain to four main themes: a) cultural characteristics, technology, and ideas; b) economic development and trade; c) population and migration; d) human interaction with the environment. A major project on several countries is required.

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 19th 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 20th century to the modern day.

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, 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, 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.

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.