

**Midway High School  
School District 128  
Inskter, North Dakota**

Course Offerings

2017-2018

*"Home of the Monarchs & Mustangs"*



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## District Requirements

Midway Public School policy states that in order to graduate, a student at Midway High School must complete a MINIMUM of 22 credits of high school work. This can be modified to 21 credits if a student is on an alternate diploma. Please see the High School Principal about this option and if you qualify.

### Requirements by content:

**Language Arts** – 4 credits required. English 9, English 10, English 11, English 12 must be passed.

**Mathematics** – 3 credits required. Algebra I, Geometry, and Algebra II (or Applied Math) must be passed.

**Science** – 3 credits required. Physical Science, Biology and any other lab science must be passed.

**Social Studies** – 3 credits required. World History, US History and Problems of Democracy must be passed.

**Physical Education** – 1 credit required.

**Other** – 3 credits of foreign language, Native American languages, fine arts, or Career and Technical Education courses.

*\*Financial Literacy is to be taken by all 9<sup>th</sup> graders but not required to retake if failed.*

*\*Business Computer Applications is to be taken by all 10<sup>th</sup> graders but not required to retake if failed.*

### Student Classification:

**Freshman** – Less than 5 credits earned

**Sophomore** – 5 credits earned including English 9 and Algebra I

**Junior** – 11 credits earned including English 10 and Geometry

**Senior** – 16 credits earned.

All students must be enrolled in 5.5 credits or more each school year. However, students attending NVC&TC can be enrolled in 5 credits. Students planning to attend NVC&TC in their junior year will need to have earned at least 12 credits upon completion of their sophomore year.

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## Midway High School

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### **BUSINESS & TECHNOLOGY**

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#### **Accounting I**

**Instructor: Mr. Michael Carroll**

Students in Accounting I will learn the fundamentals of Accounting principles that include: terminology, accounting cycle, basic concepts, financial statements, roles of accountants and ethics in accounting. Simulation packets are often integrated in the course.

#### **Accounting II**

**Instructor: Mr. Michael Carroll**

Students in Accounting II will continue learning the fundamental concepts of Accounting. Topics covered include terminology, accounting cycle, basic concepts, financial statements, roles of accountants and ethics in accounting.

#### **Business Computer Applications**

**Instructor: Mr. Michael Carroll**

Students in Business Computer Applications will continue to develop skills in various computer applications and using various input and output devices in order to gather information, design, present, and evaluate projects. The course will include ethical uses of computers and information. The course would be helpful for all students.

#### **Business Law**

**Instructor: Mr. Michael Carroll**

Students in Business Law will be introduced to the fundamental background of the development and enforcement of laws, the difference between criminal and civil law, and our present court system and how it works. Topics to be discussed include laws concerning contracts, sales, consumers, property, computers, family, environment, wills and trusts, and bankruptcy.

#### **Entrepreneurship**

**Instructor: Mr. Michael Carroll**

Students will develop skills needed to effectively organize, develop, create, and manage their own business. Topics covered include entrepreneurial concepts, characteristics of business organizations, business opportunities, entrepreneurial career examples, individual career assessment and planning, and entrepreneurial projects and simulations.

#### **Financial Literacy**

**Instructor: Mr. Michael Carroll**

Students in Financial Literacy will study the impact of financial choices on personal and occupational goals and future earnings potential. Real world topics include checking accounts, budgeting, saving for large purchases, using credit cards, figuring interest and fees, being a responsible consumer, earning power, learning about taxes

and paycheck withholding, college costs, mortgages, retirement savings, and investments. This course will provide a foundational understanding for making informed personal financial decisions.

**Desktop Composition/T.L.C-Technology Learning Center****Instructor: Mr. Michael Carroll**

TLC is a technology based learning consortium based out of Devils Lake, ND. It is comprised of 23 schools located throughout the Northwest corner of North Dakota. The program consists of several “modules” of instruction and these are available quarterly during the school year. These modules include many different components including: 3D Printer and Dye Sublimation, Virtual Welding, Aviation/GPS(Drones), Alt Energy & Hydraulics, Versa Laser, Embroidery, Residential Wiring, Fuel Cell Cars, Lego Education, Digital Video, and Bio Technology. The TLC provides teacher training and delivers equipment to each school quarterly.

Students will not only learn about the hardware provided by the TLC but also the software needed to create projects. Corel Draw and AutoDesk Inventor are two of the applications learners will have the ability to master for creating their own masterpieces.

Additionally, desktop publishing will occur in coordination in preparing Midway’s annual Yearbook.

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## **FAMILY & CONSUMER SCIENCE (FACS)**

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**Child Development****Instructor: Ms. Ashley Sailer**

To increase students’ knowledge of how children grow and develop, and to foster acquisition of skills that promote healthy development of the individual. Content may include: processes in individual development; cultural and ethnic differences and similarities in child care; how children learn; age-appropriate activities for children; family development and preparation for parenthood; prenatal development; changing relationships within the family; current issues relating to children and families; sources of support and assistance; related careers; leadership development.

**Child Guidance****Instructor: Ms. Ashley Sailer**

This course is in addition to Child Development. \*NOTE: YOU DO NOT NEED TO TAKE CHILD DEVELOPMENT TO TAKE THIS COUSE\*

To increase students’ knowledge of how children grow and develop, and to foster acquisition of skills that promote healthy development of the individual. Content may include: processes in individual development; cultural and ethnic differences and similarities in child care; how children learn; age-appropriate activities for children; family development and preparation for parenthood; prenatal development; changing relationships within the family; current issues relating to children and families; sources of support and assistance; related careers; leadership development.

**Cultures & Cuisines****Instructor: Ms. Ashley Sailer**

This course will explore cultures in various parts of the world in relation to ethnic foods, food supply, preparation methods and traditions. Current, historical and futurist issues related to food patterns and the global society will be an integral component of the course which may include such topics as famine, contamination, religious rites and practices, celebrations and cultural cuisine. Labs will combine the familiar with the exotic to create foods of the world

**Fashion & Textiles****Instructor: Ms. Ashley Sailer**

This project-oriented course introduces students to historical, current and futuristic aspects of the fashion industry including use of color and design principles, identifying fashions and fads, merchandising, apparel and environmental product production, entrepreneurship, and careers in the fashion industry. In this course, science, mathematics, management, communication skills, and team work are reinforced.

**Food Science & Technology****Instructor: Ms. Ashley Sailer**

This course will examine food and the food industry along the producer to table continuum. Topics that may be addressed include production, processing, preparation, preservation, and packaging principles. This course may integrate the application of basic food science principles, government regulations, emerging trends, sustainability, biotechnology, packaging and marketing, transportation and distribution, and career opportunities as related to the world of food science and technology. Lab experiences can demonstrate how food technology affects the consumer.

**Housing & Interior Design****Instructor: Ms. Ashley Sailer**

To explore the impacts housing has on families and the variety of ways in which individuals and families meet their needs for shelter. Content may include: the meaning of home; determining personal housing needs; selecting housing to meet needs; legal and financial aspects of housing; housing for individuals with special needs; the home as work site; personal expression through home decoration; household equipment selection, care, and use; maintaining safe environment; home repairs and improvements; energy and resource consumption and conservation; technology for home and family life; societal and environmental impacts of decisions; sources of support and assistance for individuals and families; current issues related to family housing; related careers; leadership development.

**Nutrition & Food Preparation I****Instructor: Ms. Ashley Sailer**

This introductory course will prepare students to make critical decisions about food that will contribute to their health and well-being of themselves, their families and their communities. The course may include basic food selection and storage, accurate and appropriate measuring, basic cooking terms and techniques, and working safely in the kitchen. Students will learn how to read food labels and how to apply them to their eating habits and their dietary needs. Lab experiences will focus on preparing and tasting a variety of foods.

**Nutrition & Food Preparation II****Instructor: Ms. Ashley Sailer**

This course will examine the nutritional needs of the individual, emphasizing the relationship of diet to health. Enhanced cooking terms and techniques, kitchen and meal management, time and resource management and food preparation techniques will be explored. This course may include food trends and lifestyle options such as organic foods, vegetarian diets, and convenience foods, eating out, lactose and gluten intolerance and nutrition supplements. Lab experiences will align with and enhance the course content using a variety of foods and preparation methods.

## **FINE ARTS**

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### **Instrumental Music YR**

**Instructor: Ms. Sarah Griffith**

Instrumental Music (Band) develops students' technique for playing brass, woodwind, and percussion instruments and cover a variety of nonspecified band literature styles (concert, marching, orchestral, and modern styles).

### **Vocal Music (YR)**

**Instructor: Ms. Sarah Griffith**

Vocal Music (chorus) provides the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

## **FOREIGN LANGUAGE**

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### **Spanish I S1/S2**

**Instructor: Ms. Faye Miller**

Designed to introduce students to Spanish language and culture, Spanish I emphasizes basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

### **Spanish II S1/S2**

**Instructor: Ms. Faye Miller**

Spanish II builds upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

## **LANGUAGE ARTS**

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**English 9 S1/S2****Instructor: Ms. Bonnie Jarolimek**

Grade Level: 9

Credits: .5 per semester

Instructor: Ms. Bonnie Jarolimek

Prerequisites: None

Ninth grade English has its focus on world literature and grammar. Many types of literature are read and discussed, including short stories, poetry, plays, novel and nonfiction essays. Grammar consists of parts of speech, diagramming, verb tense and agreement, sentence structure and sentence development. Composition is also included in letter, report, essay and research writing. Presentation of research will also be included.

**English 10 S1/S2****Instructor: Ms. Bonnie Jarolimek**

Tenth grade English involves the reading of world literature and various novels dealing with social responsibilities. Grammar and composition is also studied.

**English 11 S1/S2– American Literature****Instructor: Ms. Bonnie Jarolimek**

The study of American literature spanning the time frames of Puritan writing to modernist authors. Several major American authors are introduced. The emphasis is on Hawthorne, Poe, Steinbeck, Fitzgerald and Faulkner. Critical essays are also written bases on the reading. Classic and contemporary novels are also read and shared by way of reflective essays.

**English 12 S1/S2 – British Literature****Instructor: Ms. Bonnie Jarolimek**

The study of British literature, emphasis on Chaucer and Shakespeare. Several major authors are read and discussed, from medieval literature to modern authors. There is an emphasis on essay writing and business writing.

**College Composition I - Comm 110 (Dual Credit) S1****Instructor: Ms. Bonnie Jarolimek**

Grade Level 11,12

Credits: .5 per semester (high school), 3 per semester (college)

Guide practice in college-level reading, writing and critical thinking.

**College Composition II S2– Comm 120 (Dual Credit) S2****Instructor: Ms. Bonnie Jarolimek**

Grade Level 11,12

Credits: .5 per semester (high school), 3 per semester (college)

Prerequisites: Comm 110

Advanced practice in college-level writing and in applying rhetorical strategies. In this course the student applies the skill and principles learned in Composition 110, along with an introduction to expository writing, the development of research papers, argument, and literary criticism.

**College Public Speaking – Comm (Dual Credit) S1****Instructor: Ms. Bonnie Jarolimek**

Grade Level 11,12

Credits: .5 per semester (high school), 3 per semester (college)

Instructor: Ms. Bonnie Jarolimek

Prerequisites: Comm 110

Advanced practice in college-level writing and in applying rhetorical strategies. In this course the student applies the skill and principles learned in Composition 110, along with an introduction to expository writing, the development of research papers, argument, and literary criticism. Composition 110 is a prerequisite.

**Creative Writing S2****Instructor: Ms. Bonnie Jarolimek**

Creative writing involves story writing, creating advertisements, bill boards, games, poetry and other various forms of writing based on personal creativity.

**Yearbook S1/S2 – See Desktop Publishing under Business & Technology****Instructor: Ms. Michael Carroll**

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**MATHEMATICS**

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**Algebra I S1/S2****Instructor: Ms. Jacqi Zikmund**

Algebra I includes the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

**Algebra II S1/S2****Instructor: Ms. Jacqi Zikmund**

Algebra II topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents. The course may introduce topics in discrete math, elementary probability and statistics; matrices and determinants; and sequences and series.

**Geometry S1/S2****Instructor: Ms. Jacqi Zikmund****Instructor: Mr. Ryan Baron**

Geometry, emphasizing an abstract, formal approach to the study of geometry, typically includes topics such as properties of plane and solid figures; deductive methods of reasoning and use of logic; geometry as an axiomatic

system including the study of postulates, theorems, and formal proofs; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

**Applied Math S1/S2****Instructor: Ms. Jacqi Zikmund**

Applied Mathematics is designed to help students develop and refine job related math skills. Units focus on arithmetic operations, problem solving techniques, estimation of answers, measurement skills, algebra, geometry, data handling, statistics, and computers. Emphasis is on the ability to apply functional mathematics to solve problems in the world of work.

**Trigonometry S1/S2****Instructor: Ms. Jacqi Zikmund**

Trigonometry prepares students for eventual work in calculus and typically includes the following topics: trigonometric and circular functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers.

**Pre-Calculus S1****Instructor: Mr. Ryan Baron**

Precalculus combines the study of Trigonometry, Elementary Functions, Analytic Geometry, and Algebra topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

**College Algebra (MATH 103 - Dual Credit) S2****Instructor: Mr. Ryan Baron**

Covering topics from both Algebra and Analytic Geometry, this course prepares students for eventual work in calculus. Topics include the study of polynomial, logarithmic, exponential, and rational functions and their graphs; vectors; set theory; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity; the polar coordinate system; equations and graphs of conic sections; rotations and transformations; and parametric equations.

## PHYSICAL EDUCATION

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**General High School Physical Education S1/S2****Instructor: Mr. Dan Pengilly**

Physical Education provides students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities

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## SCIENCE

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### **Anatomy S1/S2**

Human Anatomy (Science) presents an in-depth study of the human body and biological system. Students study such topics as anatomical terminology, cells, and tissues and typically explore functional systems, such as skeletal, muscular, circulatory, respiratory, digestive, reproductive, and nervous systems.

Physiology examines all major systems, tissues, and muscle groups in the human body to help students understand how these systems interact and their role in maintaining homeostasis. This course may also cover such topics as cell structure and function, metabolism, and the human life cycle.

### **Biology S1/S2**

**Instructor: Mr. Mark Gehrls**

Biology is designed to provide information regarding the fundamental concepts of life and life processes. This course includes (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

### **Chemistry S1/S2**

**Instructor: Mr. Mark Gehrls**

Chemistry involves studying the composition, properties, and reactions of substances. This course typically explores such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

### **Ecology S1/S2**

**Instructor: Mr. Mark Gehrls**

Ecology provides students with a basic understanding of living things. Topics covered may include ecology and environmental problems such as overpopulation and pollution as well as cells, types of organisms, evolutionary behavior, and inheritance.

### **Physical Science S1/S2**

**Instructor: Mr. Mark Gehrls**

Physical Science involves the study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.

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## SOCIAL STUDIES

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### **Geography S1**

**Instructor: Ms. Kelli Slominski**

Geography provides students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

**Law & Justice in North Dakota S1/S2****Instructor: Ms. Kelli Slominski**

Law & Justice courses examine the workings of the U.S. criminal and civil justice systems, including providing an understanding of civil and criminal law and the legal process, the structure and procedures of courts, and the role of various legal or judicial agencies. Although this course emphasizes the legal process, it may also cover the history and foundation of U.S. law (the Constitution, statutes, and precedents). Course content may also include contemporary problems in the criminal justice system.

**Problems of Democracy S1/S2****Instructor: Ms. Kelli Slominski**

Principles of Democracy combine a study of the structure of national, state, and local U.S. government with an overview of the principles of market economics. Course content may include contemporary U.S. issues. The purpose of this course is to prepare students to perform effectively as informed citizens. Students must read the Declaration of Independence, the United States Constitution, and the Bill of Rights.

**Psychology S1****Instructor: Ms. Kelli Slominski**

Psychology introduces students to the study of individual human behavior. Course content typically includes (but is not limited to) an overview of the field of psychology, topics in human growth and development, personality and behavior, and abnormal psychology.

**Sociology S2****Instructor: Ms. Kelli Slominski**

Sociology introduces students to the study of human behavior in society. This course provides an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

**US History 11 S1/S2****Instructor: Ms. Kelli Slominski**

U.S. History provides students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. This course typically includes a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

**World History 10 1/S2****Instructor: Ms. Kelli Slominski**

World History provides students with an overview of the history of human society from early civilization to the contemporary period, examining political, economic, social, religious, military, scientific, and cultural

developments. World History may include geographical studies, but often these components are not as explicitly taught as geography.

### North Dakota Center for Distance Education

#### Requirements:

- a. Minimum of 80% or higher average in previous semester
- b. May only fail/not complete one prior course.
- c. \$50 deposit to be refunded upon successful completion.
- d. Credit Recovery and summer courses are at student expense.
- e. Courses are done online.

## **AGRICULTURE**

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### HAG1061B **Agribusiness I**

Agribusiness I explores the basic concepts of agribusiness. The course discusses the retail business of farm equipment, chemical, feeds and other agriculture supplies. The course explores agriculture cooperatives. Upon completion of this course, students will have the basic agribusiness skills needed to successfully complete the agribusiness II course, and explore the many career opportunities offered in agribusiness.

### HAG1062B **Agribusiness II**

Agribusiness II continues to explore the basic concepts of agribusiness, building on topics introduced in Agribusiness I. The course presents factors to consider in selecting a business in agriculture and developing a business plan. Finding financing and legal considerations are also presented. Promotion and marketing considerations are addressed, along with employee relations and information about business taxes.

### HAG1071B **Agricultural Careers**

The agriculture careers course will explore many of the nearly 300 plus careers agriculture has to offer. The course will discuss how to conduct and explore a career search, how to draw on your experiences to consider a career, and explore several agriculture related careers. The students will be conducting personal career searches to determine which careers they may be interested in. Upon completion of this course, students will be able to determine if agriculture offers an exciting career for them and have the skills to begin educating themselves to proceed towards a career goal.

**HAG1101B Animal Science: Beef Production**

Animal Science Beef Production explores the beef industry and puts emphasis on breeding, feeding and raising production beef. The course identifies the different beef breeds, selecting productive breeding and feeder cattle, beef nutrition, weaning management and proper beef health. Upon completion of this course, students will have an excellent understanding of proper beef production practices. Students will have the skills to start a personal beef production herd, or consider one of the many career opportunities in the beef production field.

Prerequisite: Animal Science - Introduction (HAG1091B)

**HAG1091B Animal Science: Introduction**

Animal Science I is an introductory course in animal husbandry. This course will give the students general animal science skills. This course will provide the students with the basic education to successfully complete advanced animal science courses. It will discuss basic animal physiology, digestion, reproduction and genetics. It is highly recommended that Animal Science I be taken prior to the Veterinary Science, Equine Science and advanced Animal Science courses. Upon completion of this course, students will have excellent basic animal science skills that will lead to successful completion of upper level animal science courses.

**HAG1111B Animal Science: Sheep Production**

Animal Science Sheep Production explores the ovine industry and puts emphasis on breeding, feeding and raising production sheep. The course identifies the different sheep breeds, selecting productive breeding and feeder sheep, sheep nutrition, weaning management and proper ovine health. Upon completion of this course, students will have an excellent understanding and skills of proper sheep production practices. Students will have the skills to consider starting a personal ovine production flock, or consider one of the many career opportunities in the ovine production field.

Prerequisite: Animal Science - Introduction (HAG1091B)

**HAG1121B Animal Science: Swine Production**

Animal Science Swine Production explores the Swine industry and puts emphasis on breeding, feeding and raising production pork. The course identifies the different swine breeds, selecting productive breeding and feeder hogs, swine nutrition, weaning management and proper swine health. Upon completion of this course, students will have an excellent understanding and skills of proper swine production practices. Students will have the skills to consider starting a personal farrow and / or feeder operation or consider one of the many career opportunities in the swine production field.

Prerequisite: Animal Science - Introduction (HAG1091B)

**HAG1131B Crop Science**

Crop Science explores herbicides, chemical, fertilizers (including manure), integrated pest management, pesticide use and safety, and basic grazing management practices. This course will provide students with the necessary tools and skills to further their education in plant, range and crop sciences and begin to explore the many career opportunities in the field of crop and plant sciences.

**HAG1141B Equine Science I**

Equine Science I explores the basic concepts regarding horses, donkeys and mules. The course discusses equine physiology, genetics, reproduction, digestion and basic equine health. Upon completion of this course, students will have the basic knowledge to successfully complete the equine science II course, and explore potential careers in the equine industry.

**HAG1142B Equine Science II**

Equine Science II complements the Equine Science I course by exploring horse feeding management, foaling, equine dental care, horse health management, behavior and training. Upon completion of this course, students will have the skills to properly care for personal horses or consider one of the many careers in the equine sciences.

**HAG1143B Equine Science III**

Equine Science III is an advanced course that complements the Equine Science I and II courses by exploring Equine Diseases, Hoof Health, Dermal Illnesses, Lameness and Injuries, Colic, Natural Poisoning, Equine Eyesight, Analgesic's, Sedatives, Antibiotics, and Equine Careers. Upon completion of this course, students will have the skills to properly care for personal horses or consider one of the many careers in the equine sciences.

**HAG1161B Farm Business Management: Credit & Financing**

Farm Business Management Credit and Financing complements the Farm Business Management I course by exploring banking and obtaining credit required by producers in production agriculture and agribusiness. The course explores how to choose a lender, farm credit system banks, GSE credit sources, and Farm Service Agency loans. The course also puts emphasis on credit decision making skills such as loan repayment estimations, using farm records to help obtain credit, calculating interest and loan payments, operating loans, consolidation loans, and when to expand your operation or reduce your debt. Upon completion of this course, the student will have gained valuable banking and credit skills that along with other Farm Business Management courses will prepare students for a career in production agriculture or agribusiness.

**HAG1181B Farm Business Management: Financial Planning**

Farm Business Management Financial Planning complements the Farm Business Management I course by exploring financial planning tools required by producers in production agriculture and agribusiness. The course explores producing a business plan, budgeting, accounting, farm record systems, and measuring financial strength and progress. Upon completion of this course, the student will have gained valuable financial planning skills that along with other Farm Business Management courses will prepare students for a career in production agriculture or agribusiness.

Prerequisite: Farm Business Management - Introduction (HAG1151B)

**HAG1151B Farm Business Management: Introduction**

Farm Business Management-Introduction explores the basic management concepts. The course discusses planning operations, labor costs, labor relations, farm machinery efficiency, the pros and cons of leasing versus ownership of farm equipment, and the use of custom operators. The course also discusses many of the career opportunities in the farm business industry. Upon completion of this course, students will have the necessary basic farm business skills to

successfully complete upper level farm business management coursework and continue to explore the many careers in the farm business industry.

**HAG1191B Farm Business Management: Production Decisions**

Farm Business Management Production Decisions complements the Farm Business Management I course by exploring the decision-making process in production agriculture. The course explores sources for management information including extension sources, deciding to diversify or specialize, selecting profitable crop and livestock enterprises, expansion decisions, and choosing organic vs. conventional farming practices. Upon completion of this course, the student will have gained valuable decision-making skills that, along with other Farm Business Management courses, will prepare students for a career in production agriculture or agribusiness.

**HAG1211B Greenhouse Technology**

Greenhouse Technology explores building and maintaining a greenhouse. The course discusses greenhouse plant nutrient management, greenhouse irrigation, greenhouse weeds and pest management and disease problems. A section will discuss utilizing hydroponics in the greenhouse. Upon completion of this course, students will have an excellent understanding of how greenhouses operate both in a personal or retail situation, and have the knowledge and skills to complete courses in horticulture and floriculture. Students will have the skills to consider a personal greenhouse or the many career opportunities in the greenhouse, horticulture and floriculture industries.

**HAG1221B Introduction to Agriculture**

This course consists of a variety of agriculture related subjects to help students discover and explore the many areas of study and career opportunities in the agriculture field. The course will explore Animal Science (Beef, Sheep and Swine), Veterinary Science, Leadership, Agriculture Careers, Equine Science, Farm Business Management, Agribusiness, Crop Science and Biotechnology. The purpose of the course is to allow students explore many agricultural areas to help them determine what areas they would like to explore and learn in the upper level courses.

**HAG1231B Leadership**

The leadership course explores the many aspects and skills needed to become a good leader. The course discusses how to become a good leader, effective communication skills, teamwork skills, and leadership goal setting. A section of the course will be dedicated to the FFA program for those interested in becoming FFA members. Upon completion of this course, students will have learned the necessary skills to become strong and effective leaders.

**HAG1243B Plant Science**

Plant Science explores plant growth concepts necessary for students who plan to study crop sciences, range science and other agronomy courses. The course discusses plant taxonomy, structure of plants, anatomy of plants, basic soil properties, essential nutrient requirements, photosynthesis, plant growth basics, propagation of plants, and the role of water in plants. Upon completion of this course, the student will have gained valuable plant growth skills that will prepare students for crop science courses and/or a career in the many areas of plant sciences and agronomy.

**HAG2031B Small Pet Care**

This course is designed as an introduction to pet care and management for personal enjoyment. The main objective of the course is to help you in selecting an appropriate pet and learning about the care and responsibilities of owning a pet.

**HAG1241B Veterinary Science I**

Veterinary Science I explores the basic systems of animals. The course discusses animal cells and tissues, explores the skeletal, circulatory, respiratory, renal, reproductive, digestive, nervous, endocrine and immune systems. The course also covers basic animal health and nutrition, and explores veterinary sciences careers. Upon completion of this course, students will have excellent animal husbandry and vet skills that will help them proceed with animal and veterinary science curriculum and career exploration.

**HAG1242B Veterinary Science II**

Veterinary Science II complements the Veterinary Science I course by exploring the disease component of animal health. The course explores the symptoms, diagnosis, treatment and prevention of several animal diseases. Upon completion of this course, students will have the skills to consider further education as a Veterinarian, Veterinarian Technician, or other animal science career.

## **ART**

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**HAR1201B Art in World Cultures**

Who is the greatest artist of all time? Is it Leonardo daVinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? You will learn about some of the greatest artists while also creating art of your own, including digital art. We will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

**HAR1181B Digital Photography I**

Students explore the history and development of photography as well as the technology of the digital camera. The online lessons will help students develop a working relationship with their camera and how editing software can be used to alter and enhance images. They will learn to produce quality photos of various subjects with consideration given to composition, lighting, and angle. Students will share their work with other students who will provide feedback. Students will be expected to comment and critique the work of other students, as well. Each student is required to use a digital camera and must submit photos electronically.

**HAR1182B Digital Photography II: Discovering Your Creative Potential**

In today's world, photographs are all around us, including in advertisements, on websites, and hung on our walls as art. Many of the images that we see have been created by professional photographers. In this course, we will examine various aspects of professional photography,

including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye catching photograph.

**HAR1191B Fashion and Interior Design**

Do you have a flair for fashion? Are you constantly redecorating your room? If so, the design industry might just be for you! In this course, you'll explore what it is like to work in the industry by exploring career possibilities and the background that you need to pursue them. Get ready to try your hand at designing as you learn the basics of color and design then test your skills through hands-on projects. In addition, you'll develop the essential communication skills that build success in any business. By the end of the course, you'll be well on your way to developing the portfolio you need to get your stylishly clad foot in the door of this exciting field. Required materials, supplied by the student, include: clothing items, sewing machine, digital camera, thread, fabric, clothing patterns, measuring tape, sketchpad, paper, and scissors.

**HAR2051B Fashion Design**

Shapes and colors and how they affect design is the focus in this course. The student will learn how different body types impact design techniques. Additionally, the student will study spacing, dominant shapes, proportions, optical illusions, shapes and lines, color combinations, fabric types, and accessories. The history and roots of fashion are explored. The student will apply course concepts in order to create his or her own layouts and design projects.

## **BUSINESS EDUCATION**

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**HBU3011B Accounting I**

This course introduces the fundamental accounting principles and concepts for a proprietorship and corporations. The student will prepare basic financial statements that are used to operate a business. The concepts of payroll records and payroll taxes are covered this semester. Business ethics is woven throughout the lessons.

**HBU3012B Accounting II**

This course builds on the basic principles and concepts taught in the first semester of accounting. Corporations and partnerships will be covered. Here the student will learn principles such as inventory control, depreciation, notes and interest, accruals, dividends, international sales and dissolving partnerships.

**HBU1171B Accounting III**

This course will help students with techniques utilized in solving business problems and making financial decisions. Students will develop skills in analyzing and interpreting information common to partnerships and corporate forms of organization, preparing formal statements and supporting schedules, and using inventory and budgetary control systems.

**HBU1172B Accounting IV**

Students will analyze and interpret financial information using computers and accounting software. Students will study the concepts and procedures of management and manufacturing cost accounting, as well as other accounting systems, such as a not-for-profit organization. Emphasis will be placed on decision-making in preparation for entry-level accounting positions.

**HBU2041B Business Fundamentals**

This course is written and designed for the student who is introducing himself or herself to the field of business. The course includes extensive coverage of finance, marketing, production, and a survey-like approach to business operations. The course also explores social responsibility and ethics, basic economics, career planning, decision-making, and technology.

**HBU1191B Computer Fundamentals, First Semester**

In this introductory course, students will become familiar with the basic principles of a personal computer, including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as word processors, spreadsheets and presentation software.

Students will focus on the fundamentals, learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware, and operating system.

**HBU1192B Computer Fundamentals, Second Semester**

In this course, students will continue working with a personal computer, as they reinforce their knowledge of the internal hardware, operating system, and software applications. Students will gain additional practice in using key applications such as word processors, spreadsheets, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.

First, students will strengthen their knowledge of the fundamentals by continuing to use the applications, and understand the roles and responsibilities of the software, hardware, and operating systems. Then, students will expand their skills to gathering and analyzing data, and using the right tools and methods to collect and present data.

**HBU1211B Entrepreneurship: Starting Your Business**

Do you dream of owning your own business? This course can give you a head start in learning about what you'll need to own and operate a successful business of your own. Students will explore creating a business plan, financing a business, and pricing products and services. Students will also learn more about the regulations that apply to businesses, marketing products and services, and the legal and ethical guidelines that govern businesses.

**HBU1131B Hospitality & Tourism: Traveling the Globe**

With greater disposable income and more opportunities for business travel, people are traversing the globe in growing numbers. As a result, hospitality and tourism is one of the fastest growing industries in the world. This course will introduce students to the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Student will learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

**HBU1121B International Business: Global Commerce in the 21st Century**

From geography to culture Global Business is an exciting topic in the business community today. This course is designed to help students develop the appreciation, knowledge, skills, and abilities needed to live and work in a global marketplace. It takes a global view on business, investigating why and how companies go international and are more interconnected.

The course further provides students a conceptual tool by which to understand how economic, social, cultural, political and legal factors influence both domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations will all be explored in this course. Students will cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in both business activities and the 21st century.

**HBU2181B Introduction to Social Media: Our Connected World**

Are you active on social media? Are you a savvy tweeter, a Facebook guru or a master of Instagram? If so, you're certainly not alone! More than 80 percent of the earth's population over age 15 has at least one social media account. But, even though it's a part of your daily life, do you really know all there is to know about social media and how to best maximize your use? Introduction to Social Media will help you click and post your way to a safer, more productive social media relationship. You'll learn how to apply various social media formats for your personal, academic and professional needs and how to better protect yourself and your information online. Discover the ins and outs of social media and be ready to "like" and "snap" your way to a better online you.

**HBU1201B Keyboarding**

This course follows a standard keyboarding instructional format where students are introduced to new keys based on frequency of use in the English language. This curriculum was developed based on extensive research and data obtained from a number of educational sources including the ISTE (International Society for Technology in Education), the NBEA (National Business Education Association), data and feedback collected from hundreds of EduTyping school users, instructors, and multiple classroom field tests and studies. This course includes all of the necessary lessons, tools, and exercises to effectively teach students the skill of touch-typing.

**HBU1091B Marketing**

Because of the intense competition among companies for the consumer dollar, marketing is an important component of business planning, strategy, and expense. As a result, the field of marketing is growing quickly. Students who take this course will learn about the field of marketing by exploring a variety of functions such as advertising, management, sales, service, pricing, internet marketing and careers in marketing. It is designed to help prepare the student for the business world of today and tomorrow.

**HBU3081B Personal Finance**

No matter what your age, it is important to be financially responsible. This course is designed to help students learn the truths about money: how to budget, how to keep a checkbook and filing system, how to deal with debt and credit, and how to become a wise consumer. Students will also

gain knowledge in how money and the dynamics surrounding it affect your relationships, your lifestyle, your present and future, and your retirement.

### HBU1141B **Sports and Entertainment Marketing**

Have you ever wished to play sports professionally? Have you dreamed of one day becoming an agent for a celebrity entertainer? If you answered yes to either question, then believe it or not, you've been fantasizing about entering the exciting world of sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, you'll have the opportunity to explore basic marketing principles and delve deeper into the multi-billion dollar sports and entertainment marketing industry. You'll learn about how professional athletes, sports teams, and well known entertainers are marketed as commodities and how some of them become billionaires as a result. If you've ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, then this course will introduce you to the fundamentals of such a career.

### HBU3111B **Web Design**

This one-semester course introduces students to the mechanics and elements of web design and HTML, the concepts of planning and organizing websites, and the documentation and copyright issues associated with website design. Students engage in a variety of project-based assessments to evaluate their understanding and progress. After completing the course, students are able to understand the planning and organization of a website, the elements of design and HTML, and the copyright and fair use doctrines that apply to website creation. Students also learn how to use a WYSIWIG editor and other online tools to create a website.

## **COMPUTER EDUCATION**

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### HCO2071B **Advanced Computer Science Programming, Game Design**

This course will introduce students to the basic skills necessary for game design. They will study the various games in the industry and analyze their approach in terms design and development. The student will explore the processes and art of making game elements like story, levels, sound, user interfaces, and levels. This analysis will include an orientation to the gaming market and innovative techniques' impact on it. Finally, the student will merge all these elements into a functional prototype showing their understanding of the game design process.

### HCO1142B **Computer Programming**

How can we control the most powerful tool ever invented if we cannot speak its language? Computer Programming enables students to learn the modern programming language Java. The course teaches programming using real-world, practical examples. They learn Java by manipulating graphics, images, and audio. Programming is easier than most students think, and students show what they know by choosing projects that are of interest to them. Major colleges and universities are now using this approach to teach introductory computer programming, so students in this course learn the skills necessary to tackle advanced work.

**HCO1131B Computer Programming, Robotics**

This course enables students to learn programming language using the [Parallax Boe-Bot robot](#). The course teaches programming using real-world, practical examples with interesting programming projects. In this course, students will assemble their own Boe-Bot from a kit that will be sent directly to them after registration. They will use the PBasic language to program their robot. This is STEM Curriculum, using Applied Physics and Math, and as an Introduction to Electronics, Programming, Engineering, Mechatronics, and Manufacturing.

**HCO1161B Foundations of Programming**

Foundations of Programming will teach students the fundamentals of programming using the computer language Python. The course provides students with the concepts, techniques, and processes associated with computer programming and software development. Students will also explore the many programming career opportunities available in this high-demand field.

**Prerequisites:** [Computer Fundamentals, First Semester \(HBU1191B\)](#) and [Computer Fundamentals, Second Semester \(HBU1192B\)](#)

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## ENGLISH

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**HEN2111B Creative Writing**

The writing assignments teach the student to use techniques to make prose writing more vivid, descriptive, and organized. Artwork and short literature selections provide models for writing. Armed with writing tools acquired throughout the course, the student will produce a short story as the final creative project.

**HEN1391B English Fundamentals: Reading**

"English Fundamentals: Reading" has been designed to broaden your reading horizons with selections that are interesting, entertaining, and relevant. In this course, you will learn strategies to help you improve your reading comprehension skills – including how to isolate specific details, use context clues, recall facts, cite evidence, make reasoned judgments, and draw conclusions about the selections and the characters, settings, and the themes covered. Practical skills such as reading for information, identifying bias, and evaluating persuasive techniques will also be covered. Additionally, vocabulary development, paragraph writing, and essay writing techniques will be included. Finally, to conclude the course, you will read a novel of your choice and complete an independent reading project based on that novel. Although "English Fundamentals: Reading" does not focus specifically on grammar, spelling, or punctuation, a good understanding of these concepts will help you succeed in this course. Therefore, we recommend that you take "English Fundamentals: Writing" before enrolling in "English Fundamentals: Reading".

**HEN1401B English Fundamentals: Writing**

"English Fundamentals: Writing" replaces Developmental English. This course focuses on the nuts-and-bolts knowledge you need to learn to become a successful writer. You will discover the structure of language— the words, phrases, and clauses that are the building blocks of sentences. You will learn the rules that govern how language is used in various social situations, including standard versus nonstandard and formal versus informal English. You will receive instruction on revising and improving sentences. Mastering the mechanics of correct written English includes learning correct capitalization, punctuation, and spelling. After mastering the skills of structuring sentences, you will learn the basics of good paragraphs, including how to achieve unity and coherence and how to use effective transitions between paragraphs in a longer piece of writing. A confident control of grammar, usage, and mechanics helps to ensure clear and effective communication.

**HEN2261B Gothic Literature: Monster Stories**

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

**HEN2321B Journalism**

Journalism I provides students with the fundamental basics of journalism. Students begin by exploring the history of American journalism, examining different media such as print, radio, television, and internet journalism. Students learn how to write a news story, a feature story, and an editorial, with a focus on research, analyzing the reliability of sources, conducting interviews, writing leads, revising, and self-editing. Students will also take a close look at different careers in journalism, ethics in journalism, and visual layouts using technology, including web 2.0 tool

**HEN1471B Language Arts 9, First Semester**

English for grade 9 is an integrated curriculum. Each unit in the course contains thematically related lessons in five domains: reading and the study of literature, reading informational texts, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of details and reasoning to support ideas. Speaking and listening lessons emphasize collaborative discussion skills and peer review. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring the use of some of the skills they learned in the unit.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**HEN1472B Language Arts 9, Second Semester**

English for grade 9 is an integrated curriculum. Each unit is focused on a theme or mode of study. Literature study focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered via different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**HEN1481B Language Arts 10, First Semester**

English for grade 10 is an integrated curriculum, with each unit consisting of thematically related lessons in five domains: analyzing literature, analyzing informational texts, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The skills that students practice for this course are similar to the skills in Language Arts 9 but require more independence and depth of thought. An introductory lesson at the start of each unit helps students identify any areas of weakness and review those topics before starting the more challenging grade 10 lessons. Writing assignments required in the first semester of this course include fiction, expository, persuasive, and analytical, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons in the first semester cover collaborative discussion skills, the peer review process, and how to plan and deliver informative speeches and presentations. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**HEN1482B Language Arts 10, Second Semester**

Like the first semester, the second semester consists of integrated units focused on a theme or mode of study. Literature study in the second semester focuses on the analysis of different forms of literature as well as the evaluation of various modes and forms of writing. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**HEN1491B Language Arts 11, First Semester**

English for grade 11 is an American Literature course. The units are organized chronologically according to periods in literary history. As students read foundational works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and

language study, which includes word knowledge and grammar skills. Each unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson within the unit provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works. Writing modes addressed in this course include narrative, reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons covers rhetoric, the peer review or writing workshop process, and performance skills. Vocabulary development instruction is integrated into the literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring the use of some of the skills they learned in the unit.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**HEN1492B Language Arts 11, Second Semester**

English for grade 11 is an American Literature course. The units are organized chronologically according to periods in literary history. This semester consists of units focused on historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literary analysis lessons focus on the forms of literature that were most commonly written during the 20th century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**HEN1501B Language Arts 12, First Semester**

English 12A focuses on learning to write with confidence and mastery. Emphasis is placed on building language flexibility, improving sentence structure, and mastering the writing process. Students create, revise, and edit six writing projects that are designed to help them take their writing to the next level. Emphasis is placed on project-based instruction and increased reading and writing opportunities. In this thought-provoking writing course, students prepare themselves for the demands of college and/or the job market by developing their writing skills. Through text readings, videos, interactive PowerPoint presentations, practice activities, workbook questions, interactive skills challenges, discussions, writing projects, and other activities students demonstrate their mastery of the writing process. Students will integrate the 6-Traits of Writing

(i.e., ideas and content, organization, voice, word choice, sentence fluency, and conventions) to all of their writing. In the English 12A course, emphasis will be placed on additional reading and writing project-based instruction. Students will create projects including a short story, expository essay, functional document, persuasive essay, literary analysis, and research paper. Through the engaging activities in English 12A, students become more mature and accomplished writers.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**Major Concepts**

- ) Vocabulary
- ) Writing Mechanics
- ) Writing Process
- ) Writing Components
- ) Writing Applications
- ) Reading Comprehension

**HEN1502B Language Arts 12, Second Semester**

In English 12B, students experience the evolution of British culture and literature by reading the ancient epic poem Beowulf, Shakespearean sonnets, and other classics that span 1,500 years of English writings. Engaging videos, interesting readings, and interactive activities provide students with pragmatic opportunities to apply reading comprehension and writing skills to their lives. Students work through interactive lessons, completing several self-check activities and quizzes, participating in daily online discussions, and working on their writing skills. Students will apply the 6-Traits of Writing (i.e., Ideas and Content, Organization, Voice, Work Choice, Sentence Fluency, and Conventions) to all of their writing. Engaging course projects will include a personal narrative, descriptive essay, functional document, literary analysis, persuasive essay, and research paper. Teacher feedback is provided throughout the course.

***Required Course Materials - Not Provided by NDCDE***

*Students are responsible for obtaining their own copies of two of the following required novels for this course. They are readily available through many retail outlets and public or school libraries. Some novels are included within the course in an electronic (PDF) format.*

**Major Concepts**

- ) Vocabulary
- ) Writing Mechanics
- ) Writing Process

**HEN3121B Mythology and Folklore: Legendary Tales**

Mighty heroes. Angry gods and goddesses. Cunning animals. Mythology and folklore have been used since the first people gathered around the fire as a way to make sense of humankind and our world. This course focuses on the many myths and legends woven into cultures around the world. Starting with an overview of mythology and the many kinds of folklore, the student will journey with ancient heroes as they slay dragons and outwit the gods, follow fearless warrior women into

battle, and watch as clever animals outwit those stronger than themselves. Students will also explore the universality and social significance of myths and folklore, and see how they are still used to shape society today.

**HEN1411B Public Speaking**

The art of public speaking is one which underpins the very foundations of Western society. This course examines those foundations in both Aristotle and Cicero's views of rhetoric, and then traces those foundations into the modern world. Students will learn not just the theory, but also the practice of effective public speaking, including how to analyze the speeches of others, build a strong argument, and speak with confidence and flair. By the end of this course, students will know exactly what makes a truly successful speech and will be able to put that knowledge to practical use.

**HEN1461B The Lord of the Rings: An Exploration of the Films & Their Literary Influences**

The Lord of the Rings is one of the most popular stories in the modern world. In this course, you will study the movie versions of J.R.R. Tolkien's novel and learn about the process of converting literature to film. You will explore fantasy literature as a genre and critique the three Lord of the Rings films.

**HEN1431B Theater Studies**

Have you ever wondered how a play goes from the playwright's mind all the way into a multi-million dollar Broadway production? In this course, you'll learn the whole process! This course provides a thorough introduction to the theater by providing an overview of major topics in theater studies, with a blend of theoretical and practical lessons. In the first half of this course you will learn about the definitions of theater, theater history, and contemporary theatrical genres. The second half of the course will guide you through all of the elements of putting on a professional theatrical production. You will learn about the entire production process, from playwriting through opening night, including elements of technical theater, the rehearsal process, and audience response. Whether you're an aspiring actor, technician, director, or producer, or even just an avid theater-goer, this course is for you.

**HEN1421B Theater, Cinema and Film Production**

Lights! Camera! Action! This course will introduce students to the basics of film and theater productions. Students will learn about the basics of lighting, sound, wardrobe, and camerawork for both film and theater settings. The course also explores the history of film and theater and the influence that they have had on society. Students will analyze and critique three influential American films: *Casablanca*, *Singin' in the Rain*, and *The Wizard of Oz*.

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## **FAMILY & CONSUMER SCIENCE (FACS)**

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**HFC1161B Early Childhood Education**

Would you like to have an impact on the most important years of human development? Students will learn how to create fun, safe, and educational environments for children both in homes and in daycare facilities. They will also learn how to encourage the health and well-being of infants, toddlers, and school-aged children.

#### **HFC1151B Introduction to Culinary Arts**

Food is fundamental to life. Not only does it feed our bodies, but it's often the centerpiece for family gatherings and social functions with friends. In this course about the food service industry, you will be able to try your hand at preparing some culinary delights. You'll also learn about food culture, food history, food safety, and current food trends. Through hands-on activities and in-depth study of the culinary arts field, this course will help you learn cooking skills and give you the opportunity to explore starting a restaurant and careers in the food service industry. The course includes seven portfolio assignments for which you will need simple cooking supplies, equipment, and a camera capable of taking and uploading photos to the instructor. This course is considered an occupational course for those interested in pursuing a career in food service.

#### **HFC3111B Nutrition**

This course takes students through a comprehensive study of nutritional principles and guidelines. Students learn about worldwide views of nutrition, essential nutrient requirements, physiological processes, food labeling, weight management, healthy food choices, fitness, diet-related diseases and disorders, food handling, healthy cooking, nutrition for different populations, and more. Students will complete weekly reflections to better understand their strengths and challenges related to healthy eating and activity levels. They will gain important knowledge and skills to aid them in attaining and maintaining a healthy and nutritious lifestyle.

#### **HFC3071B Personal Management: Independent Living**

This course provides an overview of the knowledge, skills, and responsibilities needed to live independently. Topics covered include decision making, purchasing and caring for clothes, healthy eating and food preparation, housing decisions, buying and insuring a vehicle, banking, saving money, credit, and job hunting.

#### **HFC2121B Real World Parenting**

The process of parenting is more than just having a child and making sure he or she eats, sleeps, and gets to school on time. Learn what to prepare for, what to expect, and what vital steps a parent can take to create the best environment and life for a child. Parenting roles and responsibilities; nurturing and protective environments for children; positive parenting strategies; and effective communication in parent/child relationships are some of the topics covered in this course.

#### **HFC1081B Relationships**

As a person matures from infancy to adulthood, they pass through various predictable life stages. Understanding these stages and the theories of human development has the potential to improve relationships. This course helps students understand more about themselves as an individual, analyze their personal characteristics, and understand principles of adolescent and adult development (physical, emotional, social, and intellectual). This course focuses on communication and conflict management skills that contribute to positive relationships in friendships, dating, marriage, family, and the work environment.

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## HEALTH CAREERS

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### HHC1021B **Health Careers I**

In this course students explore a variety of career options related to the health care field, including medicine, nursing, physical therapy, pharmacy, dental careers, child care, sports medicine, personal training, social work, psychology, and more. Students will learn about various options within each field, what each of these jobs entails, and the education and knowledge required to be successful. In addition, they will focus on basic job skills and information that would aid them in health care and other career paths.

### HHC1011B **Intro to Nursing I**

This two semester course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, crisis management will be included.

### HHC1012B **Intro to Nursing II**

This two semester course introduces students to the field of nursing. In the first semester students will learn about the history and evolution of nursing, education and licensure requirements, career path options, and nursing responsibilities. Students will also focus on foundational information such as basic anatomy, physiology, medical terminology, pharmacology, first aid, and disease prevention. In semester two students will examine various nursing theories, as well as focus on the nursing process, including assessment, diagnosis, and treatment options. Students will also learn about professional and legal standards and ethics. Additional skills of communication, teaching, time and stress management, patient safety, crisis management will be included.

### HHC1031B **Medical Terminology**

In this course students will be introduced to basic medical language and terminology that they would need to enter a health care field. Emphasis will be placed on definitions, proper usage, spelling, and pronunciation. They will study word structure and parts, including roots, prefixes, and suffixes, as well as symbols and abbreviations. They will examine medical terms from each of the body's main systems, including skeletal, muscular, cardiovascular, respiratory, digestive, urinary, nervous, endocrine, reproductive, and lymphatic systems, and sensory organs. In addition, students will learn proper terminology for common tests, procedures, pharmacology, disease, and conditions.

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## MATHEMATICS

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**HMA1401B Advanced Math (Trigonometry), First Semester**

Trigonometry can be thought of as a specialized study of Geometry. Focusing on the study of triangles, angles, and trigonometric functions, it provides students with experience in advanced mathematic concepts. From a practical point of view, students see how measurements and formulas shed light on everyday life. They find that trigonometry can save a life on a raft, predict astronomical events, and locate a forest fire. In this course, the student discovers the power of measuring triangles called Trigonometry. The student is led to think about how triangles appear everywhere in a triangular garden, the joists for a pointed roof, a corner desk, or triangular tiles. Some triangles are imaginary, such as the one formed by lines connecting the earth, the sun, and the moon. In Advanced Math A students are given tools to solve triangles that can shed light on the workings of the universe or save a life here on Earth. The skills the student gains in this course are useful throughout all of mathematics, as well as other fields such as astronomy, geology, surveying, engineering, and architecture. The course consists of six units of five lessons each that cover the basic concepts and applications of Trigonometry. Each lesson has several activities that all contribute to an exploration of new mathematical concepts. The activities also help the student think creatively and critically about each topic. Teacher feedback is provided and available throughout the course.

**Major Concepts**

- ) Angles of Rotation
- ) The Unit Circle
- ) The Law of Sines
- ) The Law of Cosines
- ) Graphing Trigonometric Functions
- ) Sum and Difference Identities
- ) Solving Trigonometric Equations

**HMA1402B Advanced Math (Pre-Calculus), Second Semester**

Precalculus expands the student's knowledge of Algebra and Geometry. Precalculus covers functions and their graphs, equations and inequalities, polynomial and rational functions, exponential and logarithmic functions, sequences and series, and analytic geometry. This course assists the student in making the transition to college level mathematics. By the time the student completes this course, the student will be prepared for Calculus! Precalculus prepares students for the study of calculus through the study of functions - polynomial, rational, exponential, and logarithmic - and the graphs of these functions. In Precalculus, students use functions to perform calculations in such different situations as returns on investments, population growth, and radioactive decay. Students also use functions to find the best fit for scientific data and make predictions. With the tools they gain in this course, students are ready to approach the basic concepts of calculus. Calculus has been the quantitative language of science for more than 300 years. Used in the major sciences and in further study of mathematics, calculus is a key to statistics, physics, and economics.

**Major Concepts**

- ) Graphs of Rational Functions
- ) Equations and Inequalities
- ) Exponents and Logarithms
- ) Complex Numbers
- ) Sequences, Series, and Limits
- ) Basic Calculus

**HMA1341B Algebra 2, First Semester**

Algebra 2A is an advanced course in mathematics. It gives you the opportunity to further your skills in the areas of interpreting and evaluating algebraic expressions. If you are planning to go on in any science, engineering, accounting, or mathematical field, this course also provides excellent preparation. The course consists of six units that cover the basic concepts and applications of Algebra. Each unit comprises five lessons totaling 30 lessons in the course. Each lesson has several activities that all contribute to an exploration of new mathematical concepts. The activities and discussions also help you think creatively and critically about each topic. You are required to keep a notebook of terms, definitions, and important work. Although you do not have to turn in this notebook, it will provide a solid review of your work during the course.

**Major Concepts**

- ) Defining Functions
- ) Linear Functions
- ) Linear Systems
- ) Matrices
- ) Quadratic Functions
- ) Polynomial Functions

**HMA1342B Algebra 2, Second Semester**

Algebra 2A completes the studies of high school algebra and prepares students to advance to trigonometry, pre-calculus, and beyond. This course provides the opportunity for students to develop and strengthen skills to read and evaluate algebraic expressions. Topics covered include exponential and logarithmic functions, rational and radical functions, properties, and attributes of functions, conic sections, and data analysis. It also includes an introduction to probability and trigonometry. It takes a great deal of math skill to design beautiful and practical buildings, engineer fuel-efficient cars, follow the twists and turns of the economy, or recognize trends in modern medical data. In this course, students see how skills in algebra and geometry are applied to everyday life on the job. Interactive math labs allow students to develop a deeper appreciation of mathematics and to practice what they have learned. In each lesson, students have the opportunity to work through and complete several self-check activities and quizzes. In each unit, students complete the unit exam, deliver a unit project, and participate in self-reflection. Teacher feedback is provided throughout the course.

**Major Concepts**

- ) Exponential Functions
- ) Growth and Decay
- ) Variation Functions
- ) Operations with Functions
- ) Conic Sections
- ) Permutations, Combinations, and Measures of Central Tendency
- ) Geometric, Sequences, and Series

**HMA1251G Algebra I, First Semester**

This is the first course in a two semester course series which focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions, and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students learn how they can use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

**HMA1252G Algebra I, Second Semester**

This is the second course in a two semester course series which continues to focus on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions, and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students learn how they can use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

**HMA1461B Consumer Math, First Semester**

This course focuses on the mathematics involved in making wise consumer decisions. Students explore the many ways in which mathematics affects their daily lives. The first semester will cover paychecks and wages, taxes, insurance, budgets, bank accounts, credit cards, interest calculations, and comparison-shopping. Second semester topics include vehicle and home purchasing, investing, and business and employee management.

**HMA1462B Consumer Math, Second Semester**

This course focuses on the mathematics involved in making wise consumer decisions. Students explore the many ways in which mathematics affects their daily lives. The first semester will cover paychecks and wages, taxes, insurance, budgets, bank accounts, credit cards, interest calculations, and comparison-shopping. Second semester topics include vehicle and home purchasing, investing, and business and employee management.

Major Concepts

- ) Solve basic arithmetic problems that require addition, subtraction, multiplication, and division of whole numbers, fractions and decimals.
- ) Estimate and round numbers.
- ) Calculate your earned income along with deductions and fringe benefits.
- ) Compute percentages, ratios, and proportions.
- ) Keep accurate banking and checking account records.
- ) Formulate a personal budget which includes expenses (utilities, insurance, taxes) incurred with home ownership.
- ) Identify the cost of buying on credit.
- ) Point out the importance of wise consumer buying, saving and investing.

#### **HMA1321G General Math, First Semester**

This course is a remediation course intended to reinforce and expand student's foundational skills. It includes: arithmetic operations, the number line, factors, multiples, absolute value, place value, rounding, estimation, decimals, fractions, percents, ratios, proportions, percent increase and decrease, simple interest, measurement in customary system and metric systems, and converting between systems.

#### **Note**

The assessments in this course are heavily based on real world problem solutions. No calculators are allowed in this course.

#### **HMA1322G General Math, Second Semester**

This course is a remediation course intended to reinforce and expand student's foundational skills. It includes: Expressions with unknowns, integers, powers and exponents, order of operations, scientific notation, Pythagorean Theorem, square roots, cube roots, writing and evaluating expressions, real-world applications, one-step equations, multi-step equations, inequalities, graphing on coordinate plane, functions, slope, intro to Euclidean Geometry, triangles, circles, circumference, area, perimeter, surface area, volume, angle measures, and distance formula.

#### **Note**

The assessments in this course are heavily based on real world problem solutions. No calculators are allowed in this course.

#### **HMA1351B Geometry, First Semester**

Geometry is the study of the measurement of the world. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through practical applications, the student sees how geometric

reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles and trigonometric ratios. Geometry A consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.

#### Major Concepts

- ) Geometry Tools
- ) Logic and Proofs
- ) Angles and Lines
- ) Congruence and Similarity
- ) Triangles
- ) Trigonometric Ratios

#### **HMA1352B Geometry, Second Semester**

This course builds on the foundation of the first terms in Geometry. As in previous courses, deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students explore quadrilaterals and circles, and learn how an object is transformed, as well as how to represent that transformation algebraically and geometrically. Students calculate area and volume of 2-dimensional and 3-dimensional objects. Geometry B consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.

#### Major Concepts

- ) Quadrilaterals
- ) Transformations
- ) Circles
- ) Area
- ) Volume
- ) Probability

#### **HMA2361B Pre-Algebra, First Semester**

Pre-Algebra A will help students move from the world of simple mathematics to the exciting world of Algebra and Geometry. They will develop skills that will be necessary throughout their life. Students will stretch their thinking by learning to solve real world problems. Learning math and algebra concepts can be fun. Abstract ideas can be challenging for many students but the challenge is one they can meet. Concepts are presented with a little humor, making the learning fun. Students will enjoy learning each new concept and develop a deeper understanding of the math skills they already have. Each concept is presented using examples of the skills, concepts, and strategies students will need. Scaffolding of ideas is provided to ensure student learning. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with flash presentations, and complete practice problems. The pace is controlled by the student and reviewing the material is encouraged.

#### Major Concepts

- ) Principles of Algebra
- ) Rational Number

- ) Graphs, Functions and Sequences
- ) Exponents and Roots
- ) Ratios, Proportions and Similarity
- ) Percents

### **HMA2362B Pre-Algebra, Second Semester**

Pre-Algebra B will continue to move students into the exciting world of the unknown, Algebra. Building on what they have learned in mathematics and Pre-Algebra, students will expand their skills. They will be introduced to increasingly abstract concepts. Pre-Algebra B will provide the student with a concrete understanding of the basics for algebraic thinking. With numerous hands on activities and demonstration videos, they will have multiple opportunities to enhance their process solving skills. Students will be given different assessment opportunities to demonstrate mastery of each skill. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with flash presentations, and complete practice problems. The pace is controlled by the student and reviewing the material is encouraged.

#### **Major Concepts**

- ) Foundations of Geometry
- ) Perimeter, Area, and Volume
- ) Data and Statistics
- ) Experimental and Theoretical Probability
- ) Multi-step Equations and Inequalities
- ) Sequencing

## **MUSIC**

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### **HMU1061B Beginning Piano**

Gain a solid foundation in basic two-hand piano skills. Learn music theory, including how to read notes, rhythms, and musical symbols on a staff. After finishing this course, students should be able to teach themselves to play the beginning music they find at the music store.

*Required Course Materials - Not Provided by NDCDE*

*Access to piano or electric keyboard (longer than 4 octaves) and tape/video recorder or the ability to record on a pc or mac computer.*

### **HMU1051B Guitar I, First Semester**

Have you ever dreamed of playing the guitar? Whether you love music, want to play guitar for your family and friends, or desire to be a music star, this course is a great place to start. No prior music experience is needed. You will learn the fundamentals of music and the basic skills necessary to play a wide variety of music styles. Student guides, Carlos and Ariel, will guide you through each step of this journey towards becoming a skilled guitarist and musician. This course can be used as a performing/fine arts credit to meet the art requirement for high school graduation.

*Required Course Materials - Not Provided by NDCDE*

*You will need a playable six-string guitar and a way to record and submit a video performance to*

*your instructor. A guitar is "playable" if it is the correct size for the guitarist, is easy to press the strings down against the frets, and plays in tune up and down the fretboard. There are three common types of six-string guitars: classical, steel string, and electric. If you do not already have a guitar, you may want to seek the advice of an experienced guitarist, a guitar teacher, or your local music store.*

### **HMU1052B Guitar I, Second Semester**

Have you ever dreamed of playing the guitar? Whether you love music, want to play guitar for your family and friends, or desire to be a music star, this course is a great place to start. No prior music experience is needed. You will learn the fundamentals of music and the basic skills necessary to play a wide variety of music styles. Student guides, Carlos and Ariel, will guide you through each step of this journey towards becoming a skilled guitarist and musician. This course can be used as a performing/fine arts credit to meet the art requirement for high school graduation.

*Required Course Materials - Not Provided by NDCDE*

*You will need a playable six-string guitar and a way to record and submit a video performance to your instructor. A guitar is "playable" if it is the correct size for the guitarist, is easy to press the strings down against the frets, and plays in tune up and down the fretboard. There are three common types of six-string guitars: classical, steel string, and electric. If you do not already have a guitar, you may want to seek the advice of an experienced guitarist, a guitar teacher, or your local music store.*

### **HMU4041B Music Appreciation: The Enjoyment of Listening**

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

## **PHYSICAL EDUCATION**

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### **HPH3071B Advanced PE I**

This two-semester course guides students through an in-depth examination of the effects of exercise on the body. Students learn how to exercise efficiently and properly. Basic anatomy, biomechanics, and physiology will serve as a foundation for students to build effective exercise programs. The study of nutrition and human behavior is also an integral part of the course. Students conduct fitness assessments and participate in weekly physical activity.

### **HPH1181B Drugs & Alcohol**

This course delves into the types and effects of drugs, including alcohol, tobacco, steroids, over the counter drugs, marijuana, barbiturates, stimulants, narcotics, and hallucinogens. Students learn about the physiological and psychological effects of drugs, as well as the rules, laws, and regulations surrounding them. The difference between appropriate and inappropriate drug use will

also be discussed. In addition, students will learn about coping strategies, healthy behaviors, and refusal skills to help them avoid and prevent substance abuse, as well as available resources where they can seek help.

**HPH3101B Exercise Science**

This course guides students through an in-depth examination of the effects of exercise on the body. Students learn how to exercise efficiently and properly and how to motivate themselves and others. Basic anatomy, biomechanics, and physiology will serve as a foundation for students to build effective exercise programs. The study of nutrition and human behavior is also an integral part of the course to enhance the student comprehension of this multifaceted subject.

**HPH1171B First Aid & Safety**

In this course, students learn and practice first aid procedures for a variety of common conditions, including muscular, skeletal, and soft tissue injuries. In addition, students learn how to appropriately respond to a variety of emergency situations. They also learn the procedures for choking and CPR for infants, children, and adults. In addition to emergency response, students will explore personal, household, and outdoor safety, and disaster preparedness.

**HPH3061B Fitness Fundamentals I**

Fitness Fundamentals is designed to provide students with the basic skills and information needed to begin a personalized exercise program and maintain an active and healthy lifestyle. In this course, students will research the benefits of physical activity, as well as the techniques, principles, and guidelines of exercise to keep them safe and healthy. Students are required to have 12 weeks of physical activity for this course. Weekly workouts must equal at least 3 hours of physical activity accumulated over at least three days of the week. Cardio, strength, and flexibility training are required on a weekly basis. This course is designed to be completed in 14-16 weeks.

**HPH1211B Health and Personal Wellness**

This comprehensive health course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students apply principles of health and wellness to their own lives. In addition, they study behavior change and set health goals to work on throughout the semester. Additional topics of study include healthy relationships, reproductive health, disease transmission, substance abuse, safety and injury prevention, environmental health, and consumer health.

**HPH1191B Intro to Coaching**

This course focuses on the various responsibilities of a coach and the skills needed to successfully fill this important position. Throughout the course, students will explore various coaching models and leadership styles, sports nutrition and sports psychology, as well as safety in conditioning and cross-training. Students will learn effective communication, problem-solving, and decision making skills. The course will also introduce students to game strategy, tactical strategy, skills-based training, and coaching ethics.

**HPH3121B Intro to Group Sports**

This course provides students with an overview of group sports. Students learn about a variety of sports, yet do an in-depth study of soccer, basketball, baseball/softball, and volleyball. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to each sport. Students also learn about sportsmanship and teamwork. In addition, students study

elements of personal fitness, goal setting, sport safety, and sports nutrition. Students conduct fitness assessments and participate in weekly physical activity.

**HPH3131B Intro to Individual Sports**

This course provides students with an overview of individual sports. Students learn about a variety of sports, yet do an in-depth study of running, walking, strength training, yoga, Pilates, dance, and cross training. Students learn not only the history, rules, and guidelines of each sport, but practice specific skills related to each sport. Students also learn about the components of fitness, FITT principles, benefits of fitness, safety and technique, and good nutrition. Students conduct fitness assessments and participate in weekly physical activity.

**HPH3141B Running**

This course is appropriate for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students learn about goals and motivation, levels of training, running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. Students conduct fitness assessments and participate in weekly physical activity.

**HPH1201B Sports Officiating**

In this course, students will learn the rules, game play, and guidelines for a variety of sports, including soccer, baseball, softball, basketball, volleyball, and football. In addition, they will learn the officiating calls and hand signals for each sport, as well as the role a sport official plays in maintaining fair play.

**HPH3151B Strength Training**

This course focuses on the fitness components of muscular strength and endurance. Students establish their fitness level, set goals, and design their own resistance training program. They study muscular anatomy and learn specific exercises to strengthen each muscle or muscle group. Students focus on proper posture and technique while training. They also gain an understanding of how to apply the FITT principles and other fundamental exercise principles, such as progression and overload, to strength training. This course also discusses good nutrition and effective cross-training. Students take a pre- and post-fitness assessment. Students conduct fitness assessments and participate in weekly physical activity.

**HPH3161B Walking Fitness**

This course helps students establish a regular walking program for health and fitness. Walking is appropriate for students of all fitness levels and is a great way to maintain a moderately active lifestyle. In addition to reviewing fundamental principles of fitness, students learn about goals and motivation, levels of training, walking mechanics, safety and injury prevention, appropriate attire, walking in the elements, good nutrition and hydration, and effective cross-training. Students take a pre- and post-fitness assessment. Throughout this course students also participate in a weekly fitness program involving walking, as well as elements of resistance training and flexibility.

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## SCIENCE

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**HSC3281B Anatomy and Physiology, First Semester**

In this course students explore the organization of the human body and how it works. They will acquire knowledge necessary to understand what the body is doing and how they can help the body cope with many different situations. Body systems will be studied in order to understand how their structure, location, and function allow for interaction with other parts of the body.

**HSC3282B Anatomy and Physiology, Second Semester**

In this course students explore the organization of the human body and how it works. They will acquire knowledge necessary to understand what the body is doing and how they can help the body cope with many different situations. Body systems will be studied in order to understand how their structure, location, and function allow for interaction with other parts of the body.

**HSC1231B Astronomy: Exploring the Universe**

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe that surrounds us. This course will introduce students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students will examine the life cycle of stars, the properties of planets, and the exploration of space.

**HSC1321B Biology, First Semester**

Biology A introduces students to the scientific method and the major concepts of biology from an historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that have transformed the daily routine, from conception to death. New challenges await, such as the current crisis in ecology, global warming, and the resurgence in viral disease. To make rational choices in the 21st century, the citizen must have a basic understanding of biological concepts and the reasoning behind them. Biology A is presented in a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet. Students work through and complete several self-check activities and quizzes for practice, and participate in self-reflection. In each unit, students complete the unit exam and deliver a unit project. Teacher feedback is provided throughout the course.

**HSC1322B Biology, Second Semester**

Biology A introduces students to the scientific method and the major concepts of biology from an historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that

have transformed the daily routine, from conception to death. New challenges await, such as the current crisis in ecology, global warming, and the resurgence in viral disease. To make rational choices in the 21st century, the citizen must have a basic understanding of biological concepts and the reasoning behind them. Biology A is presented in a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet. Students work through and complete several self-check activities and quizzes for practice, and participate in self-reflection. In each unit, students complete the unit exam and deliver a unit project. Teacher feedback is provided throughout the course.

### HSC1331B **Chemistry, First Semester**

Chemistry A covers the basic principles and properties of matter. Students discover how to measure and calculate the various elements and explore chemical formulas. Knowing what makes up our world is an important part of living in it. To understand the big world of nature as well as the small world of the kitchen, the science of chemistry is needed. Chemistry studies the matter and its reactions that power industry and life. Chemistry is often called the mother science since it is used in every other natural science. The myriad of materials that make up our planet all react according to a few understandable principles. Learning such principles will enable the student to comprehend the chemical kaleidoscope of the world. Students work through and complete several self-check activities and quizzes for practice, and participate in self-reflection. In each unit students complete the unit exam and deliver a unit project. Teacher feedback is provided throughout the course.

#### Major Concepts

- ) Atomic Theory
- ) Periodic Table
- ) Balanced Chemical Equations
- ) Stoichiometry and the Mole Concept
- ) Energy Considerations
- ) Spontaneity

**HSC1332B Chemistry, Second Semester**

Chemistry B covers the atomic theory, the mathematics of chemistry, acids and bases, oxidation and reduction, states of matter, environmental issues, and sources of energy in food. Concepts in this course include the electronic structure of atoms, chemical bonding, liquids, solids, and intermolecular forces. Additionally solutions, chemical equilibrium, reaction rates, and states of matter are considered. Students develop a solid understanding of several universal scientific principles. Cooking, swimming, driving, camping, and eating all involve chemistry. Such everyday activities may seem trivial, but unless one understands the chemistry behind them, they become disasters-in-the-making. For example, swimming pools become fungus-infested quagmires unless the pH is continuously adjusted. This course enables the student to understand and manipulate the applications of chemistry in real-world settings. Students work through and complete several self-check activities and quizzes for practice, and participate in self-reflection. In each unit students complete the unit exam and deliver a unit project. Teacher feedback is provided throughout the course.

## Major Concepts

- ) Chemical Safety
- ) Chemical Assay
- ) Acidity and pH
- ) Electrochemistry
- ) Carbon Chemistry
- ) Nutritional Chemistry

**HSC2071B Entomology**

This course is a basic, non-technical introduction to the study of insects and the ways they live. Course topics include insect importance, life cycles, classification, anatomy and physiology, behavior, and medical entomology.

**HSC1341B Environmental Science**

The human population on Earth continues to increase, raising concerns over the ability of the planet to accommodate its inhabitants. The impact that life has on the dynamic processes of Earth, a changeable planet, and its material cycling are studied in Environmental Science. In the coming years, Environmental Science will become a more important part of every human's education to keep both the population and the planet in healthy balance with each other. Environmental Science combines elements of Earth Science with ecology, evolution, and technology to educate humanity on the pressing concerns of our planetary host. While Earth is an ideal place for our home, it has its limits and demands to continue a healthy relationship with its living inhabitants. The rapid expansion of the human population in recent centuries does not seem likely to lessen until environmental catastrophes or technological breakthroughs occur. Obviously, we all hope for technology that will avert a catastrophe, yet rational decisions based on real science must constitute the major thrust of any strategy for environmental sustainability. Familiarity with the environmental issues therefore becomes a major responsibility of all citizens of Planet Earth.

## Major Concepts

- ) Environmental Science: Its Nature, Its Tools, and Its Subjects
- ) Ecology

- ) Population Science
- ) Water, Air, Land, and Their Cycles
- ) Mineral and Energy Resources
- ) Future and Health of Humanity

**HSC3141B Forensic Science I: Secrets of the Dead**

Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

Prerequisite: Biology is recommended, but not required.

**HSC2221B Forensic Science II: More Secrets of the Dead**

Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This course focuses on the analysis of evidence and testing that takes place within this setting. Students will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

Prerequisite: Biology is recommended, but not required.

**HSC2081B Ornithology**

Students discover the world of birds in this course. The textbook is beautifully illustrated with topics that include flight, structure, evolution, classification, behavior, habitat, and conservation. A pigeon dissection is required. A preserved pigeon is included in the lab kit.

**HSC2351B Physical Science, First Semester**

This is an introduction to the Physical Sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom, and reinforced through homework reading, and interesting labs that relate to everyday life.

Major Concepts

- ) Energy
- ) Force
- ) Newton's Laws
- ) Machines
- ) Waves
- ) Light

**HSC2352B Physical Science, Second Semester**

This is an introduction to the Physical Sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom, and reinforced through homework reading, and interesting labs that relate to everyday life.

#### Major Concepts

- ) Energy
- ) Force
- ) Newton's Laws
- ) Machines
- ) Waves
- ) Light

#### HSC1361B **Physics, First Semester**

In this algebra-based Physics course, learners explore through laboratories and video content, the topics of kinematics, dynamics Newton's laws, uniform circular motion, work and energy, impulse and momentum, rotational dynamics, electrostatics, circuits, electric potential, magnetic fields and electromagnetism.

#### Major Concepts

- ) Create motion maps and explore applications of kinematics in both one dimension and two dimensions.
- ) Understand Newton's laws and explore their applications.
- ) Explore properties of circular motion.
- ) Describe and explain the concept of work and its relation to energy.
- ) Calculate the results of inelastic and elastic collisions and relate those to the impulse momentum theorem.
- ) Discover rotational motion theories and calculate angular velocities.
- ) Extend the concept of work and energy to rotational dynamics.

#### HSC1362B **Physics, Second Semester**

In this algebra-based Physics course, learners explore through laboratories and video content, the topics of kinematics, dynamics Newton's laws, uniform circular motion, work and energy, impulse and momentum, rotational dynamics, electrostatics, circuits, electric potential, magnetic fields and electromagnetism.

#### Major Concepts

- ) Create motion maps and explore applications of kinematics in both one dimension and two dimensions.
- ) Understand Newton's laws and explore their applications.
- ) Explore properties of circular motion.
- ) Describe and explain the concept of work and its relation to energy.
- ) Calculate the results of inelastic and elastic collisions and relate those to the impulse momentum theorem.
- ) Discover rotational motion theories and calculate angular velocities.

- ) Extend the concept of work and energy to rotational dynamics.

**HSC3091B Wildlife Management**

This course covers the science of manipulating wildlife systems to achieve desired goals. Topics include the importance of wildlife, habitat management, protecting wildlife, preventing pollution, observing wildlife, and using hunting and fishing as management tools.

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## **SOCIAL STUDIES**

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**HSS2581B American Government**

This course covers the historical background, guiding principles, and political institutions that together constitute the government of the United States. Students examine the structure, function, and power of government at the local, state, and national levels. They gain an understanding of the principles of popular sovereignty, separation of powers, checks and balances, republicanism, federalism, individual rights, and the roles of individuals and groups in the American political system. Instructional material for this one-semester course is presented in seven units, including introduction to government and politics, roots of the American constitution, principles of American government, the federal system, civil rights and liberties, participation in a democracy, and institutions of government.

**HSS1721B American History, First Semester**

This course covers the discovery, development, and growth of the United States. Major topics include; American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History I is a survey of the struggle to build the United States of America from the colonial period to the beginning of the twentieth century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her.

**Major Concepts**

- ) Process of Independence
- ) Constitutional Government
- ) Industrialism and Slavery
- ) Civil War
- ) Westward Expansion
- ) Post-Civil War Issues

**HSS1722B American History, Second Semester**

American History B begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students

will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. This course begins with an assessment of life in United States pre-World War I and ends with the conflicts of the new millennium. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context.

#### Major Concepts

- ) Industrialization
- ) The Great Depression
- ) World War II
- ) Civil Rights
- ) American Domestic and Foreign Policy
- ) Global Issues
- ) Current Events

#### HSS2451B **Archeology: Detectives of the Past**

George Santayana once said, "Those who cannot remember the past are condemned to repeat it". The field of archeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This course focuses on the techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

#### HSS2411B **Criminology: Inside the Criminal Mind**

In today's world, crime and deviant behavior rank at or near the top of many people's concerns. In this course, we will study the field of Criminology, the study of crime. We will look at possible explanations for crime from the standpoint of psychological, biological, and sociological perspectives, explore the categories and social consequences of crime, and investigate how the criminal justice system handles not only criminals, but also their misdeeds. Why do some individuals commit crimes while others do not? What aspects in our culture and society promote crime and deviance? Why are different punishments given for the same crime? What factors, from arrest to punishment, help shape the criminal case process?

#### HSS1641B **Economics with Financial Literacy**

Become a more informed consumer, producer, investor, and taxpayer and learn how your choices directly affect your future.

#### HSS1481B **History of the Holocaust**

Holocaust education requires a comprehensive study of not only times, dates, and places, but also the motivation and ideology that allowed these events. In this course, students will study the history of anti-Semitism; the rise of the Nazi party; and the Holocaust, from its beginnings through

liberation and the aftermath of the tragedy. The study of the Holocaust is a multi-disciplinary one, integrating world history, geography, American history, and civics. Through this in-depth, semester-long study of the Holocaust, high school students will gain an understanding of the ramifications of prejudice and indifference, the potential for government-supported terror, and they will get glimpses of kindness and humanity in the worst of times. Students are expected to evaluate and reflect in writing on the content presented throughout the course.

**HSS2441B Introduction to Anthropology: Uncovering Human Mysteries**

The aim of anthropology is to use a broad approach to gain an understanding of our past present and future, and in addition address the problems humans face in biological, social and cultural life. This course will explore the evolution, similarity and diversity of humankind through time. It will look at how we have evolved from a biologically and culturally weak species to one that has the ability to cause catastrophic change. Exciting online video journeys to different areas of the anthropological world are just one of the powerful learning tools utilized in this course.

**HSS2301B Law & Order: Introduction to Legal Studies**

Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are regulated and guided by the laws of our society. Consumer laws help to protect us from faulty goods; criminal laws help to protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This course focuses on the creation and application of laws in various areas of society. Understanding the ways in which our court systems work and how the laws are carried out helps make us better citizens of the government that we live under.

**HSS1291B North Dakota Studies**

In this one-semester course, the student will study all about North Dakota—from prehistoric times to the present. Topics covered include: the natural world, early settlement and life on the northern plains, the dust bowl, and modernization. This course will fulfill the legislative requirement that indicates that "high schools shall make available to each student, at least once every two years, one-half unit of North Dakota Studies." (NDCC 15.1-21-02)

**HSS2311B Personal Psychology I: The Road to Self Discovery**

Self-knowledge is the key to self-improvement! More than 800,000 high school students take psychology classes each year. Among the different reasons, there is usually the common theme of self-discovery. Sample topics include the study of infancy, childhood, adolescence, perception and states of consciousness. Amazing online psychology experiments dealing with our own personal behavior are featured within this course.

**HSS2312B Personal Psychology II: Living in a Complex World**

Enrich the quality of your life by learning to understand the actions of others! Topics include the study of memory, intelligence, emotion, health, stress and personality. This course offers exciting online psychology experiments about the world around us.

**HSS2401B Sociology I: The Study of Human Relationships**

The world is becoming more complex. How do your beliefs, values and behavior affect the people around you and the world in which we live? Students will examine social problems in our increasingly connected world, and learn how human relationships can strongly influence and

impact their lives. Exciting online video journeys to an array of areas in the sociological world are an important component of this relevant and engaging course.

### **HSS2402B Sociology II: Your Social Life**

Sociology is the study of people, social life and society. By developing a “sociological imagination” students will be able to examine how society itself shapes human action and beliefs...and how in turn these factors re-shape society itself! Fascinating online videos journeys will not only inform students, but motivate them to still seek more knowledge on their own.

### **HSS2651B World Geography and Cultures, First Semester**

The content of World Geography and Cultures A covers the physical landforms, climate and vegetation, and cultures of the United States, Canada, Latin America, Europe, and Russia through map reading, videos, text reading, interactive learning tools, exams, classroom discussion, and researched writing projects. The course is a study of the effects of physical and human geography in the development of cultures. It is designed to engage students through inquiry by questioning, investigation, and critical thinking about issues affecting the world and people's lives, now and in the future. Virtual fieldwork is an essential element of this. Students learn to think spatially and use maps, visual images, and new technologies, including geographical information systems (GIS) to obtain and analyze information. They are challenged to consider more than just facts about who lives where and the problems those people face as a culture. They are also asked to analyze the current culture to determine how it developed and then, based on their analysis, suggest a possible future for the populations living there. The goal of the course is for the student to become a global citizen by exploring their own place in the world, their values, and their responsibilities to other people, to the environment and to the sustainability of the planet.

#### Major Concepts

- ) Principles of Geography
- ) World Climate
- ) The United States and Canada
- ) Latin America
- ) Europe
- ) Russia

### **HSS2652B World Geography and Cultures, Second Semester**

The content of World Geography and Cultures B covers the physical landforms, climate and vegetation, and cultures of Africa, Asia, Australia, Oceania, and Antarctica through map reading, videos, text reading, interactive learning tools, exams, classroom discussion, and researched writing projects. The course is a study of the effects of physical and human geography in the development of cultures. It is designed to engage students through inquiry by questioning, investigation, and critical thinking about issues affecting the world and people's lives, now and in the future. Virtual fieldwork is an essential element of this. Students learn to think spatially and use maps, visual images, and new technologies, including geographical information systems (GIS) to obtain and analyze information. They are challenged to consider more than just facts about who lives where and the problems those people face as a culture. They are also asked to analyze the current culture to determine how it developed and then, based on their analysis, suggest a possible future for the populations living there. The goal of the course is for the student to become a global citizen by

exploring their own place in the world, their values, and their responsibilities to other people, to the environment and to the sustainability of the planet.

Major Concepts

- ) Africa
- ) Southwest Asia
- ) South and East Asia
- ) Oceania and Antarctica

**HSS1731B World History, First Semester**

World History begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Semester A covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. The second half of Semester A explores early intellectual, spiritual, and political movements and their impact on interactions among world cultures.

Major Concepts

- ) Reading and analyzing history
- ) Early civilizations
- ) The first cities and empires
- ) Roots of the world's religions
- ) The Middle Ages
- ) The Age of Exploration
- ) The Reformation
- ) The Renaissance
- ) The Age of Reason
- ) The Enlightenment

**HSS1732B World History, Second Semester**

The second semester applies the reading and analytical strategies introduced in Semester A to the events and movements that created the modern world. In the second semester, World History emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion as well as the impact of European colonization. Students are encouraged to make connections between World War I and II and events related to the Cold War and between 19th-century imperialism and modern independence movements.

Major Concepts

- ) The Scientific Revolution
- ) The Industrial Revolution
- ) 20th century political and social movements
- ) World Wars I and II
- ) The Cold War
- ) Modern independence movements
- ) Contemporary global conflicts

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) Globalization

**HSS2391B World Religions: Exploring Diversity**

Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will also discuss some of the similarities and differences among the major religions and examine the connections and influences they have.

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## TECHNICAL EDUCATION

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**HTE2021B Auto Fundamentals**

You will learn the basic principles of engine operation and the parts of an engine. The fuel, charging, lubrication, cooling, emissions systems, and auto chassis are discussed. The latest developments in automotive technology are outlined.

**HTE1051B Carpentry and Building Construction**

From this course, you will obtain a very good foundation for understanding the construction process from the ground up. It begins with understanding the materials and tools that are used in construction which is necessary to choosing the right material and tool for the job. You will then study the basic techniques that are used to complete the rough framing and exterior framing of a house.

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## WORLD LANGUAGES

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**HWL1121B French I, First Semester**

Students begin their introduction to French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices,

products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored.

#### Main Topics

- J Engage in language learning
- J Master common vocabulary terms and phrases
- J Comprehend a wide range of grammar patterns
- J Participate in simple conversations and respond appropriately to basic conversational prompts
- J Generate language incorporating basic vocabulary and grammar patterns
- J Read, write, speak, and listen for meaning in basic French
- J Analyze and compare cultural practices, products, and perspectives of various French-speaking countries
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1122B French I, Second Semester**

Students begin their introduction to French by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored.

#### Main Topics

- J Engage in language learning
- J Master common vocabulary terms and phrases
- J Comprehend a wide range of grammar patterns
- J Participate in simple conversations and respond appropriately to basic conversational prompts
- J Generate language incorporating basic vocabulary and grammar patterns
- J Read, write, speak, and listen for meaning in basic French
- J Analyze and compare cultural practices, products, and perspectives of various French-speaking countries
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1131B French II, Third Semester**

Students continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both

speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in French.

#### Main Topics

- ) Engage in language learning
- ) Review and expand their study of common vocabulary topics
- ) Gain a deeper understanding of a wide range of grammar patterns
- ) Participate in expanded conversations and respond appropriately to a variety of conversational prompts
- ) Participate in simple conversations and respond appropriately to basic conversational prompts
- ) Communicate more meaningfully using correct vocabulary and grammatical structures•
- ) Read, write, speak, and listen for meaning in French
- ) Read, write, speak, and listen for meaning in basic French
- ) Analyze and compare cultural practices, products, and perspectives of various French-speaking countries
- ) Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1132B French II, Fourth Semester**

Students continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in French.

#### Main Topics

- ) Engage in language learning

- J Review and expand their study of common vocabulary topics
- J Gain a deeper understanding of a wide range of grammar patterns
- J Participate in expanded conversations and respond appropriately to a variety of conversational prompts
- J Participate in simple conversations and respond appropriately to basic conversational prompts
- J Communicate more meaningfully using correct vocabulary and grammatical structures•
- Read, write, speak, and listen for meaning in French
- J Read, write, speak, and listen for meaning in basic French
- J Analyze and compare cultural practices, products, and perspectives of various French-speaking countries
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### HWL1171B **German I, First Semester**

Students begin their introduction to German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored.

#### Main Topics

- J Engage in language learning
- J Master common vocabulary terms and phrases
- J Comprehend a wide range of grammar patterns
- J Participate in simple conversations and respond appropriately to basic conversational prompts
- J Generate language incorporating basic vocabulary and grammar patterns
- J Read, write, speak, and listen for meaning in basic German
- J Analyze and compare cultural practices, products, and perspectives of various German-speaking countries
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### HWL1172B **German I, Second Semester**

Students begin their introduction to German by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational

examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored.

#### Main Topics

- J Engage in language learning
- J Master common vocabulary terms and phrases
- J Comprehend a wide range of grammar patterns
- J Participate in simple conversations and respond appropriately to basic conversational prompts
- J Generate language incorporating basic vocabulary and grammar patterns
- J Read, write, speak, and listen for meaning in basic German
- J Analyze and compare cultural practices, products, and perspectives of various German-speaking countries
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1181B German II, Third Semester**

Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in German.

#### Main Topics

- J Engage in language learning
- J Review and expand their study of common vocabulary topics
- J Gain a deeper understanding of a wide range of grammar patterns
- J Participate in expanded conversations and respond appropriately to a variety of conversational prompts
- J Communicate more meaningfully using correct vocabulary and grammatical structures
- J Read, write, speak, and listen for meaning in German
- J Analyze and compare cultural practices, products, and perspectives of various German-speaking countries

- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### **HWL1182B German II, Fourth Semester**

Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in German.

#### Main Topics

- J Engage in language learning
- J Review and expand their study of common vocabulary topics
- J Gain a deeper understanding of a wide range of grammar patterns
- J Participate in expanded conversations and respond appropriately to a variety of conversational prompts
- J Communicate more meaningfully using correct vocabulary and grammatical structures
- J Read, write, speak, and listen for meaning in German
- J Analyze and compare cultural practices, products, and perspectives of various German-speaking countries
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### **HWL1151B Latin I, First Semester**

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a

wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning
- ) Master common vocabulary terms and phrases
- ) Comprehend a wide range of grammar patterns
- ) Engage with primary sources from ancient Roman authors
- ) Generate language incorporating basic vocabulary and grammar patterns
- ) Read and write for meaning in basic Latin
- ) Analyze and compare cultural practices, products, and perspectives of various Greek and Roman cultures
- ) Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### HWL1152B **Latin I, Second Semester**

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning
- ) Master common vocabulary terms and phrases
- ) Comprehend a wide range of grammar patterns
- ) Engage with primary sources from ancient Roman authors
- ) Generate language incorporating basic vocabulary and grammar patterns
- ) Read and write for meaning in basic Latin
- ) Analyze and compare cultural practices, products, and perspectives of various Greek and Roman cultures

- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### **HWL1161B Latin II, Third Semester**

Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- J Engage in language learning
- J Review and expand their study of common vocabulary topics
- J Gain a deeper understanding of a wide range of grammar patterns
- J Translate Latin more fluently
- J Generate language incorporating basic vocabulary and grammar patterns
- J Read and write for meaning in Latin
- J Analyze and compare myths from the ancient world with the students' own culture and experiences today
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### **HWL1162B Latin II, Fourth Semester**

Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin

from the widest range of time periods. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning
- ) Review and expand their study of common vocabulary topics
- ) Gain a deeper understanding of a wide range of grammar patterns
- ) Translate Latin more fluently
- ) Generate language incorporating basic vocabulary and grammar patterns
- ) Read and write for meaning in Latin
- ) Analyze and compare myths from the ancient world with the students' own culture and experiences today
- ) Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1091B Spanish I, First Semester**

Students begin their introduction to Spanish by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning
- ) Master common vocabulary terms and phrases
- ) Comprehend a wide range of grammar patterns
- ) Participate in simple conversations and respond appropriately to basic conversational prompts
- ) Generate language incorporating basic vocabulary and grammar patterns
- ) Read, write, speak, and listen for meaning in basic Spanish
- ) Analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries

- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### **HWL1092B Spanish I, Second Semester**

Students begin their introduction to Spanish by focusing on the four key areas of foreign language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- J Engage in language learning
- J Master common vocabulary terms and phrases
- J Comprehend a wide range of grammar patterns
- J Participate in simple conversations and respond appropriately to basic conversational prompts
- J Generate language incorporating basic vocabulary and grammar patterns
- J Read, write, speak, and listen for meaning in basic Spanish
- J Analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries
- J Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### **HWL1101B Spanish II, Third Semester**

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in

Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning
- ) Review and expand their study of common vocabulary topics
- ) Gain a deeper understanding of a wide range of grammar patterns
- ) Participate in simple conversations and respond appropriately to basic conversational prompts
- ) Communicate more meaningfully using correct vocabulary and grammatical structures
- ) Read, write, speak, and listen for meaning in Spanish
- ) Analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries
- ) Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1102B Spanish II, Fourth Semester**

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also are able to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning
- ) Review and expand their study of common vocabulary topics
- ) Gain a deeper understanding of a wide range of grammar patterns
- ) Participate in simple conversations and respond appropriately to basic conversational prompts
- ) Communicate more meaningfully using correct vocabulary and grammatical structures
- ) Read, write, speak, and listen for meaning in Spanish
- ) Analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries
- ) Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1111B Spanish III, Fifth Semester**

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning
- ) Begin to prepare for the AP Spanish test
- ) Review and expand upon a wide range of grammar patterns
- ) Participate in detailed conversations and respond appropriately to a variety of conversational prompts
- ) Generate language incorporating advanced vocabulary and grammar patterns
- ) Read, write, speak, and listen for meaning using advanced Spanish
- ) Analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries
- ) Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

#### **HWL1112B Spanish III, Sixth Semester**

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

#### Main Topics

- ) Engage in language learning

- ) Begin to prepare for the AP Spanish test
- ) Review and expand upon a wide range of grammar patterns
- ) Participate in detailed conversations and respond appropriately to a variety of conversational prompts
- ) Generate language incorporating advanced vocabulary and grammar patterns
- ) Read, write, speak, and listen for meaning using advanced Spanish
- ) Analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries
- ) Regularly assess progress in proficiency through quizzes, tests, and speaking/writing submissions

### Heart of the Valley ITV

#### Requirements:

- a. Signed enrollment commitment by student and parent by April 1<sup>st</sup>.
- b. Courses are taken over Interactive Television at Midway High School.

#### Period Schedule:

**Period 0 - 7:25 AM - 8:23 AM**

**Period 1 - 8:45 AM - 9:35 AM**

**Period 2 - 9:39 AM - 10:29 AM**

**Period 3 - 10:33 AM - 11:23 AM**

**Period 4 - 11:27 AM - 12:43 PM**

**Period 5 - 12:47 PM - 1:37 PM**

**Period 6 - 1:41 PM - 2:31 PM**

**Period 7 - 2:35 PM - 3:25 PM**

**\*Online Courses are offered.**

## FINE ARTS

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### Commercial Art I

**Grade Level: 10-12**

**Sending School: Sheyenne Valley Area Career and Tech Center**

**HS Credit: 1**

This program will provide students with an introduction to graphic design with an emphasis on fundamentals and the design process. Studies will include: design elements, design principles, typography, photography and digital enhancement and manipulation. Student will be utilizing Photoshop and Corel draw computer programs.

2017-18 YR	Period 3	MTWThF	Instructor: Eric Holland
2017-18 YR	Period 5	MTWThF	Instructor: Eric Holland
2017-18 YR	Online	Online	Instructor: Eric Holland

## Health Topics

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### Health Careers

**Grade Level: 10-12**

**Sending School: Sheyenne Valley Area Career and Tech Center**

**HS Credit: 1**

You will learn basic health care giving skills, applied academics, professional development, leadership, and organizational skills. Core skills are medical terminology, anatomy, professional standards, safety, monitoring body functions, disease prevention, CPR and First Aid Certification.

2017-18 YR	Period 3	MTWThF	Instructor: Kristen Lindgren
2017-18 YR	Period 5	MTWThF	Instructor: Kristen Lindgren

### Medical Terminology

**Grade Level: 10-12**

**Sending School: Sheyenne Valley Area Career and Tech Center**

**HS Credit: 1**

This class is designed to introduce students to the health information technology field. Students will learn prefixes, suffixes and root words for medical terms. This will include meanings, spellings and pronunciations. Emphasis is on building a working medical vocabulary based on body systems. Anatomy and physiology of major organs, pathological conditions, laboratory studies, clinical procedures and abbreviations are studies for each body system. The student will also learn medical terminology as it relates to pathology, diagnostic, surgical, clinical and laboratory procedures, and common abbreviations and acronyms by body systems.

2017-18 YR	Period 4	MTWThF	Instructor: Kristen Lindgren
2017-18 YR	Online	Online	Instructor: Kristen Lindgren

## MATHEMATICS

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### Trigonometry (MATH 105 Dual Credit)

**Grade Level: 11-12**

**Sending School: Maple Valley**

**Dual Credit: HS: .5 College: 3**

Trigonometry prepares students for eventual work in calculus and typically includes the following topics: trigonometric and circular functions; their inverses and graphs; relations among the parts of a triangle; trigonometric identities and equations; solutions of right and oblique triangles; and complex numbers.

Spring 2018	Period 5	MTWThF	Instructor: Tom Millbrandt
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## SOCIAL STUDIES

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### Introduction to Psychology (Dual Credit)

**Grade Level: 11-12**

**Sending School: Mayville State University**

**Dual Credit: HS: .5 College: 3**

This is an introductory survey of the basic approaches and concepts used to explore the diversity of human experience, development, and behavior, including important research in the area and application of everyday life. Pre-req. None. Essential Studies.

Fall 2017	Online	Online	Instructor: Codie Davis
Spring 2018	Online	Online	Instructor: Codie Davis

### Introduction to Sociology (Dual Credit)

**Grade Level: 11-12**

**Sending School: Mayville State University**

**Dual Credit: HS: .5 College: 3**

An introductory examination of social behavior and human groups through an analysis of the diversity in culture, human interactions, social structure, social differentiation, social change, and social process.

Fall 2017	Online	Online	Instructor: Misti Wuori
Spring 2018	Online	Online	Instructor: Misti Wuori

**U.S. History to 1877 (Dual Credit)****Grade Level: 11-12****Sending School: Mayville State University****Dual Credit: HS: .5 College: 3**

A historical survey of United States History from its earliest European backgrounds to 1877.

Fall 2017

Online

Online

Instructor: Elliot Rotvold

## TECHNOLOGY & NETWORKING

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**Computer Hardware and Operating Systems (Fall 17/Spring 18)****Grade Level: 10-12****Sending School: Sheyenne Valley Area Career and Tech Center****HS Credit: 1**

This course is designed to teach students how to install, maintain and upgrade personal computer hardware and operating system software. Students will be tasked to diagnose, troubleshoot and repair issues involving personal computers, laptops, printers and software. Completion of the year-long course will help prepare students to take the Industry-level COMPTIA A+ exams. Homework is occasional. Reading level is technical. Curriculum is web based.

2017-18 YR

Period 2

MTWThF

Instructor: Chris Sjol

2017-18 YR

Period 6

MTWThF

Instructor: Chris Sjol

2017-18 YR

Online

Online

Instructor: Chris Sjol

**Fundamentals of Web Design (Microsoft Expressions Web 2)****Grade Level: 9-12****Sending School: Sheyenne Valley Area Career and Tech Center****HS Credit: 1**

Introduction to Web Development; is an introductory semester long course in the planning, interviewing design and development of a web site. Students will learn how to design, develop and maintain content within Dreamweaver. They will learn ways to add typical interface components and how to use Fireworks for creating optimal images for the Web. You will learn how to organize and manage your prototypes and how to easily organize Web pages and layers.

2017-18 YR

Period 4

MTWThF

Instructor: Eric Holland

2017-18 YR

Online

Online

Instructor: Eric Holland

**Introduction to Cybersecurity****Grade Level: 10-12**

**Sending School: Sheyenne Valley Area Career and Tech Center****HS Credit: .5**

This course covers trends in cybersecurity and career opportunities available in this field. Cybersecurity refers to the people, products, and processes that protect electronic data from those with malicious intent. The course will explain why cybersecurity is important and how it is used to secure data.

Fall 2017	Period 4	MTWThF	Instructor: Chris Sjol
Fall 2017	Online	Online	Instructor: Chris Sjol

**Introduction to Networking****Grade Level: 10-12****Sending School: Sheyenne Valley Area Career and Tech Center****HS Credit: 1**

Students learn about Cisco-brand networking equipment such as routers and switches, Local Area Network configuration and will participate in hands-on labs to increase their skill level. Students will receive instruction on how to configure Cisco networking devices for use on a LAN or WAN. Completion of the two semesters of CCNA1 and CCNA 2 will help prepare students to take the Industry-level CISCO Intro 640-821 and ICND 640-811 exams. Homework is frequently. Reading level is post-secondary (technical). Curriculum is web based.

2017-18 YR	Period 1	MTWThF	Instructor: Chris Sjol
2017-18 YR	Period 5	MTWThF	Instructor: Chris Sjol
2017-18 YR	Online	Online	Instructor: Chris Sjol

**Introduction to Programming Visual Basic 8 Express****Grade Level: 10-12****Sending School: Sheyenne Valley Area Career and Tech Center****HS Credit: .5**

Introduction to Visual Basic; is a semester course to learn the basics of programming language. The students will utilize the Visual Basic software. Visual Basic is considered a relatively easy to learn and use programming language, because of its graphical development features. Visual Basic was derived from BASIC and enables the rapid application development of graphical user interface applications and access to databases.

Spring 2018	Period 4	MTWThF	Instructor: Chris Sjol
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**Routing and Switching Essentials****Grade Level: 10-12****Sending School: Sheyenne Valley Area Career and Tech Center****HS Credit: 1**

Students learn about Cisco-brand networking equipment such as routers and switches, Local Area Network configuration and will participate in hands-on labs to increase their skill level. Students will receive instruction on how to configure Cisco networking devices for use on a LAN or WAN. Completion of the two semesters of CCNA1 and CCNA 2 will help prepare students to take the Industry-level CISCO Intro 640-821 and ICND 640-811 exams. Homework is frequently. Reading level is post-secondary (technical). Curriculum is web based.

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2017-18 YR    Period 3    MTWThF    Instructor: Chris Sjol

### North Valley Career & Technology Center

The North Valley Area Career and Technology Center is a regional facility committed to excellence in education, providing diverse populations with learning opportunities that reflect the changing needs of the community and workplace.

<http://www.northvalley.k12.nd.us>

#### Requirements:

- a. Students planning to attend NVC&TC in the junior year will need to have earned 12 credits upon completion of their sophomore year. Deviation from this requirement is permissible upon the principal's approval.
- b. Grades 11-12
- c. Must take 5 credits minimum at Midway.

#### Courses:

## Automotive Technology

### Auto Technology

Grade Level 10,11,12

Credits: 2 per year

Instructor: Randy Kennedy

Prerequisites: None

Over a two year period Auto Tech covers safety and tools, engine service, suspension and steering, brakes, drive train, HVAC, electrical and engine performance. Auto technology students may participate in the student organization SkillsUSA.

### Introduction to Auto Technology - ONLINE

Grade Level 10,11

Credits: 1 per year

Instructor: Randy Kennedy

Prerequisites: None

This is a one hour introductory course in Auto Technology. The Auto Maintenance and Light Repair Technology program begins with an orientation to the eight areas of NATEF standardized programming; Suspension and Steering, Brakes, Electrical/Electronic Systems, Heating and Air Conditioning and Engine Performance. This course will also explore the various careers in the Automotive industry. Auto Technology is a sequential course and this course is a suggested prerequisite to Automotive Technology.

### Commercial Drivers License (CDL) – Possibly ITV Grade Level 12

Credits: 1 per year

Instructor: Bryan Stastny

Prerequisite: None

The focus of this class is to give the students an understanding of what is needed to obtain the CDL certification. You will start with the basics and move up to the finer points of the trade. Topics include required CDL Manual subjects such as General Knowledge, Air Brakes, and Combination Vehicle, as well as Tanker, Doubles/Triples, and Hazmat endorsements. Also covered are hours of service, weight and balance, vehicle out-of-service regulations, and National Safety Council professional truck driver DDC. At the end of the year students should have the skills needed to obtain a CDL permit and begin to work on the skills needed to pass the CDL drivers test. Students need to be 18 to obtain the CDL permit and to earn the CDL license.

### Auto Cooperative Work Experience

Grade Level: 11-12

Credits: 1 per year

Instructor: Randy Kennedy

Prerequisites: Must have completed at least 2 Auto Credits

This class involves working both inside and outside of the classroom. The outside classroom duties may be done for an area employer. The work may be paid or volunteer, depending on the work agreement. Cooperative Work Experience needs to be approved by Instructor & Center Director.

***All Auto Technology students may participate in the student organization SKILLS USA!***

## **Construction Technology**

### **Construction Technology (One Hour)**

Grade Level 10,11

Credits: 1 per year

Instructor: Peter Holand

Prerequisites: None

Learn about the construction industry. Students learn the basics of concrete, floor framing, wall framing, rafter and roof framing, shingling, and exterior finishing by completing construction projects. Construction technology students may participate in the student organization SkillsUSA.

### **Construction Technology (Two hour)**

Grade Level 11,12

Credits: 2 per year

Instructor: Peter Holand

Prerequisites: None

Students learn about various building materials, use and care of tools, and foundation, floor, wall, and roof construction while working on construction projects. Students are introduced to concrete, plumbing, and electrical installation, interior wall finishing, insulating, stair construction, and window and door installation. Construction technology students may participate in the student organization SkillsUSA.

### **Drafting for Construction**

Grade Level 10,11,12

Credits: 1 per year

Instructor: Peter Holand

Prerequisites: None

This is a two-part course. The first semester involves the fundamental concepts of drafting. Emphasis will be placed on mechanical and architectural drafting. The second semester is devoted to Computer-Aided Drafting and Design. The CADD system takes the student through commands from as simple as drawing a line to as complex as 3-dimensional geometric forms. Drafting students may participate in the student organization SkillsUSA.

### **Advanced Drafting for Construction**

Grade Level 11,12

Credits: 1 per year

Instructor: Peter Holand

Prerequisites: Drafting I

Learn advanced drafting techniques including 3-D drawing using AutoCAD. Students will work on specialized projects. Drafting students may participate in the student organization SkillsUSA.

**Construction Cooperative Work Experience**

Grade Level 11-12

Credits: 1 per year

Instructor: Peter Holand

Prerequisites: Must have completed at least 2 Construction Credits

This class involves working both inside and outside of the classroom. The outside classroom duties may be done for an area employer. The work may be paid or volunteer, depending on the work agreement. Cooperative Work Experience needs to be approved by Instructor & Center Director.

***All Construction Technology students may participate in the student organization SKILLS USA!***

**Health Science****Health Science 1 – In class or ITV**

Grade Level 10,11,12

Credits: 1 per year

Instructor: Valerie Heuchert BSN

Prerequisites: None

Periods offered 4 and 6

This 1 credit section of Health Careers continues to give students the core units of instruction which are related to many health careers. These units include: a. History and Trends of Health Care b. Health Care Systems c. Introduction to Medical Terminology d. Anatomy and Physiology (Basic Structure and Function of the Human Body, Body Planes, Directions, and Cavities, Integumentary System, Skeletal System, Muscular System, Nervous System, Circulatory System, Respiratory System), e. Human Growth and Development f. Computers and Technology in Health Care g. Infection Control h. Introduction to Medical Terminology (Focus is on **human** anatomy and disorders when anatomy is covered). Students may participate in the student organization HOSA. A student may take Health Careers 2 consecutive years as the curriculum will rotate every other year.

**Medical Terminology/Advanced Patient Care**    Grade Level 11,12    Credits: 1 per year  
Instructor: Valerie Heuchert BSN    Prerequisites: None    Periods offered 0

The Medical Terminology section is the first semester of this class which is designed to introduce students to the health information technology field. Students will learn prefixes, suffixes and root words for medical terms. This will include meanings, spellings and pronunciations. Emphasis is on building a working medical vocabulary based on body systems. Anatomy and physiology of major organs, pathological conditions, laboratory studies, clinical procedures and abbreviations are studied for each body system. The student will also learn medical terminology as it relates to pathology, diagnostic, surgical, clinical and laboratory procedures, and common abbreviations and acronyms by body systems. This class can be taken for three college credits. College credits are obtained through Lake Region State College.

The Advanced Patient Care is the second semester of this course that covers a variety of units related to the health care field. The units include: a. IV b. Medical Abbreviations c. Injection Unit d. Promotion of Safety e. Medical Math f. Reproductive System g. Nursing Annie Diagnoses and Care. Students may participate in the student organization HOSA.

**Basic Patient Care**

Grade Level: 11,12

Credits: 1 per year

Instructor: Valerie Heuchert BSN

Prerequisites: None

The Nursing Assistant Training program offers classroom instruction and clinical practice to those preparing for employment as a certified nursing assistant in a skilled nursing facility, acute care or home health care.

This course covers a variety of units related to the health care field. The units include:

a. Certified Nurse Assisting program b. Geriatric Care c. First Aid & CPR as needed d. Medical Abbreviations e. Promotion of Safety f. Medical Math

Students may choose to challenge the CNA test offered by the North Dakota Board of Nursing. CNA certification is a prerequisite for entry into college health science programs.

Students may be given the opportunity to take a First Aid and CPR class to become certified in these areas by taking the required test. Students may participate in the student organization HOSA.

**Prevention/Care of Athletic Injuries**

Grade Level: 10-12

Credits: 1 per year

Instructor: Valerie Heuchert BSN

Prerequisites: None

This course provides the student with a background in athletic training and basic health care. The course emphasizes injury prevention, first responder management daily for athletic injuries and skills to fulfill the activities of daily living. Students will be able to complete the requirements to become a student athletic trainer.

**Health Careers Cooperative Experience**

Grade Level: 11-12

Credits: 1 per year

Instructor: Valerie Heuchert BSN

Prerequisites: Completed at least 2 Health Careers credits

This class involves working both inside and outside the classroom. The outside classroom duties may be done for an area employer. The work may be paid or volunteer, depending on the work agreement. Cooperative Work Experience needs to be approved by Instructor & Center Director. Health Careers students may participate in the student organization HOSA.

***All Health Science students may participate in the student organization HOSA!***

## **Business Education**

**Business Education**

Grade Level: 10-12

Credits: 1 per year

Instructor: Susan Shuley

Prerequisites: None  
Periods offered: 1,5,6

Students learn applications for word processing, electronic spreadsheet, and create a working calendar. Students will work individually and as part of team on a variety of assignments and projects. Students will build a portfolio and an electronic portfolio to showcase their skills along with creating a professional resume. In the last quarter of MBT, students will take part in a job interview to prepare them for the world of work. Modern Business Technology students may participate in the student organization FBLA.

### **Business Education (if taking 2 hour block)**

Grade Level 10-12 Credits: 2 per year  
Instructor: Susan Shuley  
Prerequisites: None  
Periods offered: 5 and 6

Students will continue to develop skills in business computer applications and using various input and output devices in order to gather information, design (Desk Top Publishing and Web Design), present, and evaluate projects. The course will include ethical uses of computers and information. In the last quarter of MBT, students will take part in a job interview to prepare them for the world of work. Modern Business Technology students may participate in the student organization.

### **Accounting I/II**

Grade Level 10-12 Credits: 1 per year  
Instructor: Dustin Norby  
Prerequisites: None

**Accounting I (1<sup>st</sup> Semester):** Students will learn the fundamentals of Accounting principles that include: terminology, accounting cycle, basic concepts, financial statements, roles of accountants and ethics in accounting. A manual simulation packet is integrated in the course.

**Accounting II (2<sup>nd</sup> Semester):** Students will continue learning the fundamental concepts of Accounting. Topics covered include terminology, accounting cycle, basic concepts, financial statements, roles of accountants and ethics in accounting. An automated simulation packet is integrated in the course. Accounting students may participate in the student organization FBLA and DECA.

### **Business Ed Cooperative Work Experience**

Grade Level 11-12  
Credits: 1 per year  
Instructor: Susan Shuley  
Prerequisites: Must have completed at least 2 Busn. Ed. Credits

This class involves working both inside and outside of the classroom. The outside classroom duties may be done for an area employer. The work may be paid or volunteer, depending on the work agreement. Cooperative Work Experience needs to be approved by Instructor & Center Director. Business Ed. students may participate in the student organization FBLA and DECA.

***All Business Education students may participate in the student organization FBLA!***

## Marketing Education

### Available ITV, Online or in Classroom

#### Sports and Entertainment Marketing/Entrepreneurship

Grade Level 10-12

Instructor: Dustin Norby

Prerequisites: None

Credits:1 per year

**Sports and Entertainment Marketing:** To prepare students for marketing occupations in the area of sports and entertainment. Take a look at the exciting and dynamic field of sports and entertainment marketing. One of the largest industries in the world, sports marketing provides a unique way of looking at the business world. This course will focus on the two main aspects of sports and entertainment marketing: 1) The marketing of sports and entertainment, and 2) The marketing of non-sports products and services through sports. You will discover why companies pay to be associated with a team or entertainer; how to develop ticket plans to fill the seats in the arena; why targeting your marketing efforts is so important; and more. Sports and Entertainment Marketing students may participate in the student organization FBLA and DECA.

**Entrepreneurship:** To provide opportunity for students to explore self-employment benefits versus risks and to develop specific competence in starting a small business. It covers the characteristics of an entrepreneur, economics and the nature of small business, feasibility study Business Plan Development, type of ownership, location, financing, recordkeeping, management, promotion, legal issues, business protection, and assistance. Entrepreneurship students may participate in the student organization FBLA and DECA.

#### Marketing I

Grade Level 10-12

Credits: 1 per year

Instructor: Dustin Norby

Prerequisites: None

This course is designed to develop students understanding and skills in such areas as business law, communication skills, customer relations, economics, emotional intelligence, financial analysis, human resource management, information management, marketing operations, professional development, and strategic management. Students acquire knowledge of fundamental business activities and factors affecting business, develop verbal and written communication skills, use information literacy skills, utilize job-seeking strategies, and participate in career planning. Marketing I students may participate in the student organization FBLA and DECA.

#### Marketing Cooperative Work Experience

Grade Level: 11-12

Credits: 1 per year

Instructor: Dustin Norby

Prerequisites: Completed at least 2 Marketing Credits

This class involves working both inside and outside of the classroom. The outside classroom duties may be done for an area employer. The work may be paid or volunteer, depending on the work agreement. Cooperative Work Experience needs to be approved by Instructor & Center Director. Marketing Co-op students may participate in the student organization FBLA and DECA.

*All Marketing students may participate in the student organization DECA!*

## **Welding Technology**

### **Welding Technology – In Class or ITV**

Grade Level 10,11,12

Credits: 1 or 2 per year

Instructor: Bryan Stastny

Prerequisite: None

Students learn the various welding processes: Oxy-Fuel weld and cutting, Shielded metal arc weld (Stick), Gas metal arc weld and Flux core arc weld (wire feed), Gas tungsten arc weld (Tig), Plasma arc cutting, and Air arc gouging. General shop safety and theory of each weld process along with blueprint reading, weld symbols, weld joints and positions, and properties of metals are studied. Students completing required standards will be eligible to test for A.W.S. entry level weld certification. Welding students may participate in the student organization SkillsUSA.

### **Machine Tool Technology**

Grade Level 10,11,12

Credits: 1 per year  
Instructor: Bryan Stastny  
Prerequisite: None

Students learn operations of metal lathes and mills, and reading of micrometers, calipers and dial indicators. Through hands-on experience students are taught skills such as shop and machine safety, basic shaft turning, thread forming, tapers, knurling, facing, milling key seats, along with other lathe and mill processes. Introductory use and instruction of modular Computer Numerical Controlled (CNC) lathes and mills will be covered in the program. Proficient basic math and algebra skills are recommended as students use these skills throughout the course. Machine tooling students may participate in the student organization SkillsUSA.

### **Welding Cooperative Work Experience**

Grade Level 11-12  
Credits: 1 per year  
Instructor: Bryan Stastny  
Prerequisites: Must have completed at least 2 Welding Credits

This class involves working both inside and outside of the classroom. The outside classroom duties may be done for an area employer. The work may be paid or volunteer, depending on the work agreement. Cooperative Work Experience needs to be approved by Instructor & Center Director.

***All Welding students may participate in the student organization SKILLS USA!***

## **Agriculture Education**

### **Intro. to Agriculture**

Grade Level 9-12  
Credits: 1 per year  
Instructor: TBD  
Prerequisite: None

Agriscience courses integrate biological and technological concepts with principles of agriculture. This course will have units selected to develop knowledge and skills pertaining to agriscience in the Information Age. Such topics as career options, leadership development, biotechnology, natural resources management, aquaculture, hydroponics management, integrated pest management, plant structure, physiology, and plant reproduction will be covered.

**Ag Sales & Service - ONLINE**(1<sup>st</sup> Semester)      Grade Level 10-12      Credits: ½ per semester      Instructor: TBD  
Prerequisite: Intro to Ag

To provide students with skills necessary for entry into employment or furthering education in agriculture sales and service. The course deals with business organizations, business structures, job responsibilities, job applications, and interviewing, human relations, marketing, selling, displaying, using business machines, business accounting, and management skills. Learning activities are varied with classroom, laboratory, and field experiences. Leadership development and supervised agricultural experience programs are an integral part of this course.

**Agricultural Business Management - ONLINE** (2<sup>nd</sup> Semester)      Grade Level 10-12      Credits: ½ per semester  
Instructor: TBD      Prerequisite: Intro to Ag

A course designed to introduce the students to agribusiness management in the free enterprise system. It includes a study of economic principles, budgeting, recordkeeping, finance, risk management, business law, marketing, and careers in agribusiness. Leadership development and supervised agricultural experience programs are an integral part of this course.

**Online class Botany Horticulture offered can be taken for a Science credit.**

**Botany Horticulture - ONLINE**      Grade Level 11-12      Credits: 1 per year  
Instructor: TBD      Prerequisites: None

This course prepares students to produce greenhouse/nursery plants and to maintain plant growth and propagation structures. Topics to be covered include: soils, plants, plant identification, and plant entomology. This course examines the importance of plant cell structures, functions of cells, plant processes, nonvascular plants, vascular plants, roots, stems, leaves, flowers, and reproduction in plants. This course will reinforce and extend students' understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture.

**Pre Vet Science – Possibly Online** (1st Semester)      Grade Level 10-12      Credits: ½ per semester  
Instructor: TBD      Prerequisite: None

The basic concepts of veterinary medicine are presented primarily focusing on the different body systems of the major species of pets and domesticated agricultural animals. The course focuses on the different concepts in veterinary medicine to provide the student with a base knowledge of today's field of veterinary science.

**Agronomy - Possibly Online** (2nd Semester)      Grade Level 10-12      Credits: ½ per semester  
Instructor: TBD      Prerequisite: None

Agronomy is the study of plants and how they relate to soil. This course will study units in such areas as principles of crop science, field crops, plant anatomy, plant physiology, and the basics of safe and sustainable food and fiber production.