

H O R T O N

H I G H

S C H O O L

C O U R S E   D E S C R I P T I O N

I N F O R M A T I O N

2017-2018

Dear Student and Parent(s):

To complete the enrollment process for the 2017-2018 school year, each student will be able to choose classes through our student information program portal (Infinite Campus). Required classes will already be set, so students will choose available elective classes online. Students will work with mentor teachers to review the choices to make sure a full schedule and pre-requisites have been met. Incoming freshman students have the same opportunity to select classes online. Students will work with Everest staff during this process. If needed, a date will be set for HHS staff members to meet with all eighth grade students to finalize class selections. A student who does not enroll at this time may find it very difficult to get into the elective classes he/she wants because those desired classes might already be full.

Course Description information is available through Infinite Campus for each course on the enrollment page. Hard copies will be made available to students during the class selection process done at school and to parents who request a copy by calling the high school office. As each student confers with teachers, classes will be selected to fill a full schedule for the 2017-18 school year. Please read the description for each class the student wants to take to make sure there is an understanding of the expectations and requirements. Please be aware that the printed information in this booklet and on Infinite Campus is accurate at this time. ***Changes to the courses are pending dependent upon Board of Education decisions based on funding and scheduling issues not known at this time.***

**Students must enroll in 8 class periods.** It is very important that class selections be made very seriously. Final enrollment will be done in August, but the selections made now will be used to generate a schedule for each student following final Board of Education decisions. Students will have only limited opportunity to change their selected classes in August, so it is very important that the choices made now be made with care.

Students with special requests must have approval of the teacher and principal/counselor before choosing the class.

If you have any questions, please contact me at the high school (486-2151)

**\*\*Special Education students should consult with their teacher to make sure classes selected follow the IEP.**

Sincerely,  
Tyler Smith, Counselor  
smitht@usd430.org

In compliance with the Executive Order 11246; Title II of the Education amendments of 1976; Title VI of the Civil Rights Act of 1964, as amended by the Equal Employment Opportunity Act of 1972; Title IX Regulation Implementing Education Amendments of 1972; Section 504 of the Rehabilitation Act of 1973; and all other Federal, State, School rules, laws, regulations, and policies, the U.S.D. #430 South Brown County shall not discriminate on the basis of sex, race, color, national origin, or handicap in the educational programs or activities which it operates, including all vocational education opportunities.

Revised 4/6/17BOE Approved 4/10/17

## ENROLLMENT INFORMATION

GRADE 9 - 12

2017-2018

Attached are several pages of enrollment information to use for the 2017-2018 school year. The required courses for Freshman and Sophomore students are as follows:

### FRESHMAN Class of 2021

Business Essentials—1 semester

**\*\*\*Business Computer Apps I will no longer be required with Class of 2020.**

Language Arts I

Math--Algebra I, Geometry, or Algebra II

Physical Dimensions

Physical Science

### SOPHOMORE Class of 2020

**\*\*\*American History—beginning with the Class of 2019**

Biology I

Language Arts II

Math--Algebra I, Geometry, Algebra II

The courses offered to Freshmen and Sophomores are:

Accounting I (Soph)	Ag Science
Advanced Choir-(Frosh w/ permission)	Algebra I
Algebra II	<b>**Am. History (Beginning Class of 2019)</b>
Animal Science	Art I
Art II (Soph)	Band
Business Essentials	Business Management
Cabinet Construction I	Cabinet Construction II (Soph)
Career & Life Planning (S1)	Chemistry I (Soph)
Civics (S1)	Culinary Essentials
Consumer Resource Management (Soph)	Economics (Business) (S2)
Digital Photography I (Soph)	Forensics (S2)
Family Studies (S1/S2)	Graphic Design I (Soph)
Geometry	Horticulture
Home Improvement (Soph)	Intro to Industrial Technology (S2)
Human Growth & Development (S1/S2)	Mixed Choir
Intro to Family and Consumer Sciences	Public Speaking
Metals & Technology (Soph)	Spanish II (Soph)
Nutrition & Wellness (S1/S2)	Survey of French (S2)
Spanish I	World History

Survey of Italian (S1)

Weight Training (Soph)

The required courses for juniors and seniors are as follows:

JUNIORS

Class of 2019

**\*\*American Government (starting Class of 2018)**

Language Arts III

Math--Geometry, Algebra II, Trigonometry/Statistics, Financial Literacy

Science --Animal Science, Chemistry I or II, Physics, Human Anatomy &

Physiology, Environmental Science, or Biology II

SENIORS Class of 2018

Language Arts IV or College English

In **addition** to courses listed for freshmen and sophomores that remain open to upper classmen, these courses are offered to Junior and Senior students

Advanced Materials Technology

Ag Construction

Art III

Applied Business Development

Biology II (S1)

Chemistry II

College American Govt.(S2)

College English (S1/S2)

Digital Photography II

Entrepreneurship (S2)

Financial Literacy

Graphic Design II

Human Anatomy & Physiology

Language Arts III

Physics

Social Problems (S2)

Spanish IV

Teacher Assistant

Yearbook

Advanced Accounting

Ag Structures

Art IV

Banking & Finance (S2)

Career & Community Connections (Sr)

College Algebra (S2)

College Biology

Computer Technology

Environmental Science (S2)

General Sociology (S1)

Investing (S1)

Language Arts IV

Pre-Calculus (S1)

Spanish III

Statistics (S2)

Trigonometry (S1)



## HORTON HIGH GRADUATION REQUIREMENTS

The Board of Education may adopt graduation requirements beyond the minimum set forth by the State Board of Education.

A student shall be eligible for graduation from grade twelve at Horton High School upon completion of the fifteen and 1/2 required units and attendance as required below, plus at least twelve and 1/2 elective units. District #430 requirements are as follows:

1. **Four (4) units of English Language Arts:** When in the judgment of the high school principal, a student can profit more by taking another subject, the principal is authorized to waive one unit of this requirement.
2. **Three (3) units of Social Studies:** These shall include one (1) unit of American History, one (1) unit of American Government, and one (1) unit of Social Science elective. The unit of American Government shall include the study of the Constitution of the United States.
3. **Three (3) units of Natural Science:** these shall include one (1) unit of Physical Science and one (1) unit of a laboratory course which will be Biology I.
4. **Three (3) units of Mathematics**
5. **One unit of Physical Education** The Physical Education requirement may be waived when a licensed physician states that a student is mentally or physically incapable of participating in a regular or modified physical education program or when a written statement filed by the parents or guardians of the student states that the requirement is contrary to the religious teachings of such student.
6. **One (1) semester unit of Business Essentials;**  
*\*\*Business Computer Apps I will no longer be required with Class of 2020.*
7. **One (1) unit of Fine Art (Music, Art, or Foreign Language)**
8. **Attendance for eight (8) semesters enrolled in grades nine (9) through twelve (12) is required.**

To qualify for admission to any of the six Kansas Regents universities, you must meet one of the following requirements: (1) Complete the precollege curriculum with at least a 2.0 GPA on a 4.0 scale; or, (2) Achieve an ACT score of 21 or above; or, (3) Rank in the top one-third of your high school's graduating class.

## **PRECOLLEGE CURRICULUM**

The following outlines the high school courses that are required to meet the requirements for admission to any of the Kansas Regents universities. Courses that are encouraged, but not required, are italicized.

**Note: 1 unit = 1 year**

### **ENGLISH -- 4 units required**

--At least (1) one unit of English or Language Arts must be taken each year of high school.

--*Beyond this requirement, students are encouraged to take courses in speech, forensics, or yearbook.*

### **NATURAL SCIENCE -- 3 units required**

--Students must take (3) three units chosen from the following courses. **At least one unit must be in Chemistry\*\* or Physics\*\*.**

- Biology;
- Advanced Biology;
- Chemistry\*\*
- Physical/Earth/Space Science; and/or,
- Physics\*\*

--Applied/technical courses may not be substituted for the requirement that one unit of natural science credit must be in chemistry or physics.

--Students are encouraged to take one additional unit of science chosen from the courses listed above.

### **MATH -- 3 units required**

--Students must take one unit each of Algebra I, Algebra II, and Geometry. The mathematics requirement shall be three (3) units of mathematics **in high school** at or above the level of Algebra I.

--*Students are strongly encouraged to take a mathematics course every year of high school.*

### **SOCIAL SCIENCES -- 3 units required**

--Students must complete the following:

- One unit of U.S. history;
- One-half unit of U.S. Government;
- One unit selected from one or more courses in psychology, economics, civics, history, current social issues, sociology, anthropology and/or race and ethnic group relations.

- One-half unit selected from world history, world geography or international relations.

**AGRICULTURAL EDUCATION**

Three parts of the education received in Ag Education are classroom/lab instruction, FFA and SAEP. Each student enrolled in class will be expected to participate in classroom activities like other classes. The FFA comes into play in developing leadership and exploring career fields. Students do not have to join but will be expected to participate in the activities. Supervised Agriculture Experience Program (SAEP) is a part of the education that makes students develop themselves outside the classroom. Students are required to have a program developed and implemented in each class. This is an important part of applying what is taught in the class to activities outside the class.

**AG BUSINESS MANAGEMENT (AG18201)** (Full Year) Elective.....1 Credit.....11,12  
Prerequisite: Animal Science, Metal & Tech, or Horticulture Class size limited to 12

This class will concentrate on the management skills needed to be successful in a business, with emphasis being given to an agricultural business. Some of the units of instruction may include:

- COMPUTER APPLICATION: TAXES: MACHINERY MANAGEMENT: AGRICULTURE LAW:
- MARKETING: BUSINESS ORGANIZATIONS: RECORD KEEPING: INVESTMENT ANALYSIS:
- FINANCIAL ANALYSIS: CASH FLOW: WHOLE FARM CASE STUDY

Students are required to participate in the Ag Management Career Development Event.

Students will learn the elements of landscaping and turf management. Landscape and turf projects will be done within the class block time. Computerized landscape plans will be drawn and developed within this curriculum. When working on-site, students will get into planting and developing a landscape in a hands on basis. Students are required to participate in the career development event in horticulture.

**This class will not be offered in 2017-18 school year**

**AGRICULTURE CONSTRUCTION (AG18409)** (Full Year) Elective.....1 Credit.....11, 12

Prerequisite: Ag Power, Electric Power, or Metals & Technology. Student must have successfully completed at least 1 shop class previously with at least a C. Admission to this class is by instructor permission. Class size limited to 12. The course is designed for students to spend 100% of their time working on individualized projects. Students will spend the class applying their skills from previous shop classes to their individual projects. Examples of projects are port-a-panels, livestock equipment, trailers, small engine overhauls, reconditioning old equipment, or others. No project = no grade. Each student will complete an extensive paper on how a project was built and all steps involved which will be used to enter in the Lincoln Arc Welding Awards for cash prizes.

Students are encouraged to compete in the Ag Mechanics Career Development Event each spring.

**AG SCIENCE (AG18001)** (Formerly Intro to Ag) (Full Year) Elective.....1 Credit.....9, 10

Through this course, students are introduced to the many areas of agricultural industry and mechanics. Students are involved in the FFA organization, leadership training and Supervised Agriculture Experience Program (SAEP). They will learn to keep agriculture records, operate shop equipment, and explore various segments of agriculture. Anyone interested in the courses offered at the upper level in Ag Education is encouraged to take this beginning course.

**ANIMAL SCIENCE (SCI18101)** (Full Year)..... Elective.....9,10,11,12 1 Full Non-Lab Science Credit

This class deals with Animal Science used in production agriculture. Emphasis will be on the production, care and management of plants, animals and their products. Food Science will be included in this course dealing with animal protein. Students will have experiments and projects, which involve research, records, and related activities.

**AG STRUCTURES (AG18403)** (Full Year) Elective..... 1 Credit.....11, 12



Prerequisite: Successful completion of at least 1 shop class with at least a C. Admission to this class is by instructor permission. Class size is limited to 10.

The class will construct agriculture buildings such as sheds, animal shelters and utility buildings. Community service projects may be added if the opportunity exists. Students will be responsible for some personal equipment (warm clothing/coveralls, safety glasses). The school will provide tools. Final permission for enrollment will be made by the instructors.

Students are encouraged to participate in the Ag Mechanics Career Development Event.

**AGRICULTURE POWER & MACHINERY (AG18411)** (Spring Sem) Elective.....1/2 Credit.....9,10,11,12

This class deals with small engine theory and the hands-on experience. Students will study how combustible engines work, learn repair of a small engine and maintenance required for optimum performance. Students will each tear down an engine to study parts and relationships and reassemble. After completion of this stage, students will be required to perform maintenance on engines they or the community bring in.

Students are required to participate in the Ag Mechanics Career Development Event each spring.

**This class will not be offered in 2017-18 school year**

**ELECTRIC POWER (AG18411)** (Fall Semester) Elective.....1/2 Credit.....9,10,11,12  
Class size limited to 15.

This class explores electrical theory and then applies these theories to electricity, electronics, and motors. Students will have projects in electronics and electric motors. The class will have a large project dealing with electricity. Students are encouraged to participate in the Ag Mechanics Career Development Event.

**This class will not be offered in 2017-18 school year**

**HORTICULTURE (AG18052)** (Full Year) Elective.....1 Credit..... 10, 11, 12  
Class size limited to 15.

Five major areas for this class are:

1. Plant/Soil Science
2. Landscape Design, construction and maintenance.  
--Students will design and landscape a project each year  
--Maintenance on past projects also
3. Horticulture Plant Production  
--Student will learn through "doing" how to care for plants in the greenhouse
4. Floral Design
5. Fruit and Vegetable Production  
--Students will design and plant garden(s) in the spring

Students must participate in the Floriculture Career Development Event.

**METALS & TECHNOLOGY (AG18404)** (Full Year) Elective.....1 Credit.....10, 11, 12  
Class is limited to 14

This course is designed for students wanting to explore and achieve skills in the metal working areas. Laboratory experiences include safety, project plans, tool reconditioning, running threads, metals, arc welding, oxyacetylene welding, cutting, wire welding, sharpening, sheet metal, soldering, tempering metal lathe, and others. Once skills have been successfully completed in the above areas, students will have the opportunity to build an approved project of their choice.

Students are encouraged to participate in the Ag Mechanics Career Development Event.

**ART**

**ART I (ART05154)** (Semester or Full Year) Elective.....1 or 1/2 Credit.....9,10,11,12  
Class size is limited to 18 students.

In this art course, the student will have the opportunity to explore many different media in two-dimensional work. Pencil, pen and ink, and watercolors are a few of the media covered. Emphasis will be on drawing and composition skills, originality and creative ideas. Weekly sketchbooks and art history assignments are required. It is possible for a student to join the class at semester and not feel like major requirements have been missed. This allowance for 2nd semester entry will be at the discretion of the instructor.

**ART II (ART05154)** (Full Year) Elective.....1 Credit.....10, 11, 12  
Prerequisite: Art I with "B" grade average, or by permission of instructor

In this course more advanced work will be expected of all students as they work to apply and further expand the fundamentals of art in two-dimensional work and three-dimensional work. Weekly art history assignments and a quarterly sketchbook are required.

**ART III (ART05154)** (Full Year) Elective.....1 Credit.....11, 12  
Prerequisite: Art II with "B" grade average, or by permission of instructor.

In this course, students have reached the stage where their skill level is improving. A variety of processes and media will be required assignments. Weekly art history assignments and a quarterly sketchbook are required. At this level, the Art III students should be considering the development of a portfolio.

**ART IV (ART05170)** (Full Year) Elective.....1 Credit.....12  
Prerequisite: Art III with "B" grade average, or by permission of instructor

In this advanced level class, the Art IV student should be seriously developing a portfolio as they consider their future. Students will continue to explore familiar media and try new techniques. Weekly art history assignments and a quarterly sketchbook are required.

**DIGITAL PHOTOGRAPHY I (CIS3105)** (Semester) Elective.....1/2 Credit.....10-12  
Prerequisite Art 1 and one semester of Art II

Description: This course is designed to explore the basic fundamentals of design and the unique process of producing multiple images. Emphasis will be placed on the techniques and characteristics of digital photography as an art form.

Students will also learn about the history of photography and art and learn how to critique and analyze their own work as well as other artists work based on the elements and principles of design.

Students will analyze, research, and discuss their own artwork, artwork of their peers, and famous and newly emerging artists of contemporary culture. Instruction includes the examination of the formal, expressive, and aesthetic properties of photographic art and examines the history and development of photography and its relationship to the scientific and technological views of the 19th and 20th centuries. A portfolio of artwork will demonstrate knowledge and understanding of the elements and principles of art, style and design. Students will link photography to other art forms and disciplines and will understand its applications to careers within contemporary society.

Exploration and use of contemporary equipment (iPhones, etc.) within the field of modern Photography.

Proposed Class Projects

- Promotional Poster
- Exhibit Catalogue
- Logo Design

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- CD Cover
- Stationery Package
- Book Spread
- Digital Artwork pieces

**DIGITAL PHOTOGRAPHY II (CIS3105)** (Semester) Elective.....1/2 Credit.....11-12  
Prerequisite Art 1 and one semester of Art II

Description: This course is designed to build upon prior experience of Digital Photography I. A special emphasis will be placed on the advanced techniques and characteristics of digital photography as an art form.

Students will also learn about the history of photography and art and learn how to critique and analyze their own work as well as other artists work based on the elements and principles of design.

Students will analyze, research, and discuss their own artwork, artwork of their peers, and famous and newly emerging artists of contemporary culture. Instruction includes the examination of the formal, expressive, and aesthetic properties of photographic art and examines the history and development of photography and its relationship to the scientific and technological views of the 19th and 20th centuries. A portfolio of artwork will demonstrate knowledge and understanding of the elements and principles of art, style and design. Students will link photography to other art forms and disciplines and will understand its applications to careers within contemporary society.

Proposed Class Projects

- Art Exhibit Poster
- Research, Creative Brief, Mood Boards, presentation to client
- Web Site Trade Show Newsletter
- Catalog: The creation of a catalog designed to market a retrospective-style exhibit. Elements: Photographic imagery, copy and museum/gallery identity. Media: Computer Generated
- Retail Branding and Identity System
- Animation development
- Animation character design
- Portfolio development

**GRAPHIC DESIGN I (ART05162)** (Semester) Elective.....1/2 Credit.....10-12  
Prerequisite Art 1 and one semester of Art II

Course will build fundamental skills acquired in the Graphic Design I. Students gain an intermediary understanding of typography, layout, and branding.

Graphic Design is a creative process that combines art and technology to communicate ideas. This course will give students a foundation in Graphic Design by introducing them to the various aspects of the Graphic Design field. Students will work on projects utilizing industry standard software and hardware in a classroom environment that simulates a real-world design studio. They will be introduced to the basic design principles and processes that must be followed in order to successfully complete projects that meet specific criteria.

Students will also become familiar with production techniques with industry standard software such as Adobe Photoshop, Illustrator, InDesign, animation programs, typography, and post production techniques for finishing, mounting and the creation of mock-ups.

In addition to the computer and software, students will properly handle and use drawing tablets, digital cameras, scanners, and other various output devices such as printers and backup storage disks applicable to projects.

**GRAPHIC DESIGN II (ART05162)** (Semester) Elective.....1/2 Credit.....10-12

Grades 11-12 — Prerequisite Art II and Graphic Design I

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Course builds on skills acquired in the Graphic Design I. Students gain an intermediary understanding of typography, layout, and branding. Students gain an intermediary understanding of typography, layout, and branding. Students will explore techniques of camera based image making that develops an understanding of basic photographic concepts including exposure, camera function, and image refinement. Students will compare traditional historical materials with present day technologies and will utilize Adobe Photoshop, Illustrator, Dreamweaver, and other software as a digital darkroom and for manipulating digital images that demonstrate an awareness of the elements and principals of design.

Student exploration will continue into animation programs.

In addition to the computer and software, students will properly handle and use drawing tablets, digital cameras, scanners, and other various output devices such as printers and backup storage disks applicable to projects.

## BUSINESS

**ACCOUNTING I (BUS12104)** (Full year) Elective.....1 Credit.....10,11,12

Prerequisite: Average to above average grades

Accounting courses introduce and expand upon the fundamental accounting principles and procedures used in business. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Advanced topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process.

**ADVANCED ACCOUNTING (BUS33108)** (Full Year) Elective.....1 Credit.....11,12

Formerly Computerized Accounting II

Prerequisite: No grade below a C in Accounting I

Advanced accounting courses expand upon the foundational account principles and procedures used in business. Course content typically includes the full accounting cycle, payroll, taxes, debts, depreciation, ledger and journal techniques, and periodic adjustments. Students may learn how to apply standard auditing principles and to prepare budgets and final reports. Calculators, electronic spreadsheets, or other automated tools are usually used. Topics may include elementary principles of partnership and corporate accounting and the managerial uses of control systems and the accounting process and further enhancement of accounting skills.

**BANKING & FINANCE (BUS12101)** (Spring Semester) Elective.....1/2 Credit.....11,12

Prerequisite: Entrepreneurship

Banking and Finance courses provide students with an overview of the American monetary and banking systems as well as types of financial institutions and the services and products that they offer. Course content may include government regulations; checking, savings, and money, market accounts; loans; investments; and negotiable instruments.

**BUSINESS ECONOMICS (BUS12105)** (Fall Semester) Elective.....1/2 Credit.....9-12

Business Economics course integrate economic principles (such as free market economy, consumerism, and the role of American government within the economic system) with entrepreneurship/business concepts (such as marketing principles, business, law, and risk)

**BUSINESS ESSENTIALS (BUS12050)** Formerly Basic Business (Fall/Spring Sem) Required.....1/2 Credit.....9

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This is a core course designed to give students an overview of the business, marketing and finance career cluster occupations. Students will develop an understanding of how academic skills in mathematics, economics, and written and oral communications are integral components of success in these occupations. Students will examine current events to determine their impact on business and industry and legal and ethical behavior, acquire knowledge of safe and secure environmental controls to enhance productivity, determine how resources should be managed to achieve company goals, and identify ownership, they will interpret industry laws and regulations to ensure compliance, identify principles of business management, and analyze business practices to determine ethics and social responsibilities.

**ENTREPRENEURSHIP (BUS12053)** (Spring Semester) Elective.....1/2 Credit.....11, 12

Entrepreneurship courses acquaint student with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communications. Several topics surveyed in Business Management courses may also be included.

**INVESTING (BUS12107)** (Fall Semester) Elective.....1/2 Credit.....11,12  
Prerequisite: Entrepreneurship

Investing courses emphasize the formulation of business and individual investment decisions by comparing and contrasting the investment qualities of cash, stock, bonds, and mutual funds. Students typically review annual reports, predict growth rates, and analyze trends. Stock market simulations are often incorporated into investing courses.

**APPLIED BUSINESS DEVELOPMENT (BUS32200)** (Full Year) Elective.....1  
Credit.....11,12

Applied Business Development students will practice skills of planning, organizing, directing and controlling functions of operating a business while assuming the responsibilities, and risks involved. Students will develop skills in enterprise development, market analysis and financial preparation. These courses includes classroom activities as well as involving further study of the field and discussion regarding real-world experiences and applications that student encounter in owning and managing a business

**BUSINESS MANAGEMENT (BUS 12052)** (Semester) Elective.....1/2  
Credit.....10-12

A course designed to introduce students to essential business and marketing competencies required for business operations. Units of instruction include general business and management principles, leadership, salesmanship, marketing/entrepreneurship, public speaking, and the use of accounting information for making business decisions.

**FAMILY AND CONSUMER SCIENCE**

**CAREER CONNECTIONS (FCS45250)** (1<sup>st</sup> Semester) Elective.....1/2Credit .....12

This is an application level course. Students must pass all prerequisites with at least a C- in order to take this class.

Students will enhance self-development throughout the life span. Students will also analyze the reciprocal impact of individual and participation in community activities. Students will look at career paths, demonstrate professional behavior and skills, and determine what knowledge is needed for providing family and community service.

**COMMUNITY CONNECTIONS (FCS45250)** (2<sup>nd</sup> Semester) Elective.....1/2Credit .....12

This is an application level course. Students must pass all prerequisites with at least a C- in order to take this class.

Students will enhance self-development throughout the life span. Students will also analyze the reciprocal impact of individual and participation in community activities. Students will look at career paths, demonstrate professional behavior and skills, and determine what knowledge is needed for providing family and community service.

**CAREER & LIFE PLANNING (FCS22207)** (Fall Semester) Elective.....1/2 Credit.....9, 10

This course is designed to build knowledge and skills that will prepare students for the next step toward adulthood and living independently. A focus will be placed on exploration, decision-making, and goal planning to achieve their future career choices. Emphasis is placed on areas of personal development, communication skills, lifestyle and healthy choices, and personal and professional imaging. Additional topics to be covered in this course are: applying job seeking skills, developing a personal budget, investigating housing options, meal planning, consumer skills (food & automobile), demonstrating management.

**CULINARY ESSENTIALS (FCS16052)** (Fall/Spring Semester) Elective.....1/2 Credit.....9- 12

Pre-Requisite: Nutrition and Wellness

In this course students will learn about food preparation skills. Topics covered include kitchen safety and sanitation, food borne illness, table etiquette, nutrition, knowledge of food facts, and the use of various cooking methods. The Art of cooking will be covered along with food preparation including how to choose, prepare, and cook healthy foods. Baking techniques will be taught including techniques used for making quick breads, yeast breads and other baked goods. Students will also explore careers that are food oriented.

**FAMILY STUDIES (FCS22208)** (Fall/Spring Sem) Elective.....1/2 Credit.....9-12

The emphasis of this course will be the family as a system or unit which meaningful relationships begin. Relationships will be explored with focus on feelings of trust and well being. This course highlights the rights and responsibilities of partners as well as bonds with other family members. Discussion will center on the different developmental levels of family members and how each are interdependent. Students will learn how families change over time and will study patterns of change in family structure, roles, and adaptation to life's stresses.

**HUMAN GROWTH & DEVELOPMENT (FCS45004)** (Fall/Spring Sem) Elective.....1/2 Credit.....9-12

Students will identify physical, emotional, social, spiritual, and intellectual development across the lifespan. Students will analyze conditions that influence human growth and development. This class will examine personal needs and characteristics and their effects on interpersonal relationships. The course will include an in-depth

study of children from birth to 6 years of age, with emphasis on pre-school children. Discussion will be centered on parenting skills such as discipline, guidance, safety, child care options, special needs and careers in child care. Students will have the opportunity to care for an infant using the "Baby Think It Over" simulator.

**INTRODUCTION TO FAMILY and CONSUMER SCIENCES (FCS45001)** (Fall/Spring Sem) Elective.....1/2 Credit.....9-,12

This class is an introduction course to the Family and Consumer Science courses. We will briefly discuss Human Services careers that are available. We will discuss the needs, relationships, and development of the family. We will learn how to balance work, family and volunteer demands. A quick look will be taken at the consumer decision making basics and we will end the course talking about the need for wellness across the life span.

**NUTRITION AND WELLNESS (FCS08057)** (Fall/Spring Sem) Elective.....1/2 Credit.....9-12

Nutrition and wellness course is based on the emphasis on nutritional and wellness practices that promote individual and family well-being across the life span. Course content will focus on food, nutrients, nutrition, and body; plus how food is valued in our world. Other areas open for discussion are healthy food choices, handling and storing food, use of recipes, consumer skills, demonstration of serving and dining etiquette, and planning and preparing meals.

Students apply mathematics and scientific principles while preparing a variety of foods. They are required to demonstrate proper use and care of equipment. In addition, safe and sanitary lab practices that can be applied in the home as well as the workplace will be incorporated. Food studies and preparation in class may include: fruits, vegetables, and casseroles.

**CONSUMER RESOURCE MANAGEMENT (FCS22210)** (Fall/Spring Sem) Elective .....1/2 Credit.....10-12

Managing resources to achieve personal and family goals is a focus for this course. Students will learn to make informed consumer decisions, create financial stability, and maintain a healthy living environment

### FOREIGN LANGUAGE

**SPANISH I (FLN06101)** (Full Year) Elective.....1 Credit.....9-12

Prerequisite: Grade average of "B" or better in English

This class will teach a broad spectrum of vocabulary. Students will study the geography and culture of various Spanish speaking countries. This class is designed for students who will need Spanish in the future for study or career. Students will participate in dialogues and skits, read short selections of literature and write limited compositions aimed at building basic fluency.

**SPANISH II (FLN06102)** (Full Year) Elective.....1 Credit.....10-12

Prerequisite: Completion of Spanish I with a "B" or better, or permission of instructor

This class will continue the work begun in the Spanish I class, and will build greater fluency. Reading and writing selections will be longer and conversations will be more spontaneous. Study of culture will continue.

**SPANISH III (FLN06103)** (Full Year) Elective.....1 Credit.....11,12

Prerequisite: Spanish II with a grade of "B" or better.

This class will begin the structure of the language while challenging the students with new vocabulary and a broader range of topics for conversation, readings and compositions. Study of culture will continue.

**SPANISH IV (FLN06104)** (Full Year) Elective.....1 Credit.....12  
Prerequisite: Spanish III with grade "B" or better.

Students will review structure and grammar while communicating and participating in mock, real-life situations. Study of culture will include current events.

**SURVEY OF ITALIAN (FLN06999)** (Fall Sem) Elective.....1/2  
Credit.....9,10,11,12

The Survey of Italian class is designed to introduce second language acquisition with non-native speakers of Italian. The on-line application Duo-Lingo will be used to facilitate this class. At certain points in the semester, we will have "Culture Class" which may pertain to holidays, history, geography, sociology or events, and may include craft projects, cooking, research, videos, etc.

**SURVEY OF FRENCH (FLN06999)** (Spring Sem) Elective.....1/2  
Credit.....9,10,11,12

The Survey of French class is designed to introduce second language acquisition with non-native speakers of French. The on-line application Duo-Lingo will be used to facilitate this class. At certain points in the semester, we will have "Culture Class" which may pertain to holidays, history, geography, sociology or events, and may include craft projects, cooking, research, videos, etc.

#### GIFTED/TALENTED PROGRAM

**GIFTED INDEPENDENT STUDY GENERAL (GT22999)** (Full Year) Elective.....1 Credit.....9, 10, 11, 12

Open by permission of the Gifted instructor only.

This course of study will have two main methods for acquiring elective high school credit. **First:** A student enrolled may earn college credit as determined by the college who provides the study course, usually an Internet based class, which uses the Black Board or Web IQ computer system. **Second:** The individual student and the G/T teacher will design a course of study to address the student's need and interest to know more about a chosen subject area. Students will be encouraged to complete each independent study within a given time frame.

#### LANGUAGE ARTS



**COLLEGE ENGLISH\*\* (LA01999)** (2 semesters – English 101 and English 102) (Full year for high school); 3 hours per semester for HCC credit  
Required (Choice).....1  
Credit.....12

Highland Community College requires payment each semester.

**Prerequisite:** The student must have successfully completed Language Arts I, II, and III. The student must have an ACT English score of at least 18 or take and pass the ASSET Reading and Writing tests which are administered by an HCC representative and which would demonstrate the ability to do college level work; the student must maintain at least a C average once enrolled in College English to remain in the class.

**First semester - HCC English 101(3 hours of HCC credit is earned per semester upon payment of the tuition to HCC.)**

Topics covered: Study of essays  
Writing - essays  
Research project and presentation – group  
Critical thinking skills  
Vocabulary and writing skills  
Outside reading - at least 3 major books and  
Critical reviews (oral and/or written)

Class discussion pertaining to the material is mandatory as part of the grading process.

**Second Semester - HCC English 102  
(3 hours of HCC credit is earned per semester of college upon payment of the tuition to HCC)**

Prerequisite: Successful completion of College English 101 with a grade of C or better

Topics covered: Study of literature - (various forms)  
Writing - critical analyses of works studied  
Vocabulary and writing skills  
Outside reading - 2 major books and reviews (oral and/or written)  
Critical thinking and analyzing skills.

Class discussion pertaining to the materials studied is mandatory as a part of the grading process.

**FORENSICS (LA01152)** (Spring Semester) Elective.....1/2 Credit.....9-12

Performance class – all students will be expected to prepare two events for competition and to go to at least half of the scheduled tournaments.

Objectives – To help the student to learn how to express himself/herself through various events in forensics (competitive speech and drama)

To help the student to become more comfortable in presenting his/her event before a judge  
To work to establish a place on the HHS State forensics team

Expectations – Students will choose pieces of interest and of quality to work on during the forensics season.

The student will work with the instructor to perfect his/her piece.  
The student will create a forensics notebook in which is included the pieces worked on during the season, the ballots received, and cut and revised copies of the originals.  
The student will be expected to work at the home forensics tournament.  
The student will be expected to do his/her very best.

**LANGUAGE ARTS I (LA01001)** (Full Year) Required.....1 Credit.....9

Forms of literature to be studied: nonfiction, short story, poetry, essay, novel, and Shakespearean drama.  
Forms of writing to be studied: essay (especially persuasive, narrative, and expository), short story, poetry, biography research project, and creative writing.

Grammar and mechanics of writing, spelling vocabulary and usage.

Oral presentation: memory work, research project, some creative work

Major literary projects: Shakespeare's Romeo and Juliet, and Orwell's Animal Farm

Accelerated Reader Books: required reading. Computer-generated tests will be taken for each AR book read.

**LANGUAGE ARTS II (LA01002)** (Full Year) Required.....1 Credit.....10

Objectives/Outcomes: The Language Arts II curriculum is aligned with KS State Standards.

GENERAL:

1. To provide guided practice and check understanding in literature and vocabulary.
2. To provide group and independent practice in composition.
3. To provide practice in using the six-trait analytical model.
4. To present a thematic approach to literature.
5. To provide the opportunity for cooperative learning.
6. To provide an environment that is accommodating to various learning styles.
7. To provide reading practice through the use of Accelerated Reader.
8. To provide the opportunity to study and analyze persuasion/propaganda

SPECIFIC:

1. To cover various types of short stories.
2. To study certain elements of storytelling: plot, setting, character, point of view, symbol, irony, and theme, etc.
3. To practice reading and writing.
4. To analyze multiple types of persuasion.
5. To practice cooperative learning.
6. To practice technical reading and writing skills..
7. To practice Reading various literary genres such as drama (for example *Julius Caesar*), world literature (for example *King Arthur*), and various short stories.

**LANGUAGE ARTS III (LA01003)** (Full Year) Required.....1 Credit.....11

OBJECTIVES/OUTCOMES: The Language Arts III curriculum is aligned with KS State Standards.

GENERAL:

1. To provide guided practice and check understanding in literature and vocabulary.
2. To provide group and independent practice in composition.
3. To present a thematic approach to literature.
4. To provide the opportunity for cooperative learning.
5. To provide an environment that is accommodating to various learning styles.
6. To provide specific insights into various cultures.
7. .To provide the opportunity for research.
8. To provide practice in identifying elements of persuasion.

SPECIFIC:

1. To cover various types of American Literature.
2. To study certain characteristics of American literary time periods.
3. To practice reading, writing, and the six-trait analytical model.
4. To analyze persuasion.
5. To read for general background knowledge as it applies to current day situations, such novels as Cheaper By The Dozen, Of Mice And Men, The Old Man and the Sea, To Kill A Mockingbird, etc.
6. To practice critical thinking skills.
7. To practice technical writing skills.
8. To practice using research skills.
9. To analyze techniques of persuasion.

**LANGUAGE ARTS IV (LA01004)** (Full Year) Required (Choice).....1  
Credit.....12

Topics Covered: Literature of the world; Writing - short pieces - full essays; Vocabulary and mechanics of writing  
Book reviews (both oral and written) using the Accelerated Reader List -- each nine weeks  
Discussion of material studied is mandatory as a part of the class. Research, writing, and oral presentation is also a mandatory part of the class.

**PUBLIC SPEAKING\*\* (LA01151)** (Fall Semester) Elective.....1/2  
Credit.....9-12

Topics covered: Various types of speeches, matters relating to the writing and presenting of good speeches. Text: The Challenge of Effective Speaking - sixth ed., Supplementary materials; The focus of this class will be to teach good speaking techniques and the differences between different types of speeches. The student will be expected to write and present various types and lengths of speeches. Some speeches will be of an impromptu nature and quite short while others will require research, writing, and memorization. Students will also be expected to act as peer evaluators on certain assignments to further hone their speech making skills. Note taking, discussion, and participation in class activities is mandatory.

**YEARBOOK (CL10049)** (Full Year) Elective.....1

Credit.....11,12

Prerequisite:

**Class size is limited to a maximum of 12 students.**

In this course the students will produce the yearbook. The students will learn how to write and fit copy, design a layout, and crop pictures. The students will use a computer and computer graphics to produce the yearbook. The responsibilities of the students include the following: selling ads and yearbooks, taking pictures at school events, and meeting individual and staff deadlines which are set by the advisor and the yearbook company.

There is a maximum number of 12 students in this class, and students may enroll in the class for more than one year.

**The final selection of students will be made by the instructor.**

## MATHEMATICS

### **PRINCIPLES OF MATHEMATICS PROGRAM**

\*\*Beginning with the 2016-17 school year, the "Principles of Mathematics Program" will no longer exist. Students that were already taking Principles classes, will be placed in the traditional courses and provided support when needed.

### **TRADITIONAL MATHEMATICS PROGRAM**

Students who enroll in this series of courses are expected to be in this program 4 (or 5) years. "Traditional" methods (textbooks, lectures, assignments), problem solving strategies, and use of technology will prepare the student for enrollment in a College Algebra(or higher level) course.

**ALGEBRA I (MATH02052)** (Full Year) Elective.....1 Credit.....9, 10

Prerequisite: Successful completion of 8th grade math.

Algebra I will introduce the student to the language of mathematics. Topics studied will include: Operations with real numbers, variables, and polynomials; Solutions to linear equations and inequalities, quadratic equations, and systems of linear equations; Graphing linear equations and inequalities; and problems relating to the topics above.

**GEOMETRY (MATH02072)** (Full Year) Elective.....1 Credit.....9-12

Prerequisite: Credit in Algebra I. Student with a grade of less than a C in Algebra I must have permission of the Geometry instructor and the counselor to enroll in Geometry.

The student will be trained in the use of logic. Deductive and inductive reasoning will be used. Formal and informal proofs of the concepts studied will be an important part of the course. Specific concepts covered will be points, lines, planes, triangles, other polygons, congruence, similarity, constructions, circles, area, volume, and coordinate geometry.

**ALGEBRA II (MATH02056)** (Full Year) Elective.....1 Credit.....10-12  
 Prerequisite: Credit in Algebra I. Student with a grade of less than a C in Algebra I must have permission of the Algebra II instructor and the counselor to enroll in Algebra II.

The course will begin by reviewing and expanding the student's knowledge of the topics covered in beginning algebra. New topics will include: matrices, functions; exponents and logarithms; complex numbers; analytic geometry and trigonometry; and other topics as time allows.

**PRE-CALCULUS (MATH02110)** (Fall Semester) Elective.....1/2 Credit .....12  
 Prerequisite: At least a "C" in Trigonometry and College Algebra or concurrent enrollment. Anyone with a grade less than a "C" in either class of these classes will need to obtain instructor permission to enroll.

This course addresses prerequisites and is an introduction to concepts included in a college Calculus course. The course will build toward the development of the concepts of the derivative and integral. Computers and graphing calculators will be utilized.

**COLLEGE ALGEBRA (MATH02999)** (Spring Semester) Elective.....1/2 Credit .....12  
 Prerequisite: At least a "C" in Algebra II and Geometry. Anyone with a grade less than a "C" in either class will need to obtain instructor permission to enroll.

This course is a concurrent course through Highland Community College. It will consist of an extension of many of the concepts covered in Algebra II. Topics discussed will include: Quadratics, Linear and Non-linear equations, logarithms and exponents, polynomials, rational and irrational functions, and applications of each.

**STATISTICS (MATH02209)** (Spring Semester) Elective. . . .1/2 Credit. . . .11, 12  
 Prerequisite: Credit in Algebra and Geometry.

Statistics will cover many aspects of data analysis. Analysis will include mathematical and graphical representations of the data. The class will include using linear and quadratic models to study data. Graphing calculators and computers will be utilized. Odds and Probability will also be addressed.

**TRIGONOMETRY (MATH02103)** (Fall Semester) Elective. . . . ½ Credit. . . . 11, 12  
 Prerequisite: Credit in both Geometry and Algebra II.

Trigonometry will be studied using concepts of triangular trigonometry and also using circular function definitions. Power, logarithmic, quadratic, and polynomial functions will be studied along with ideas of sequence and limit. Graphing calculators and computers will be utilized.

**FINANCIAL LITERACY- (MATH02157)** (Full Year) Elective .....1 credit .....11, 12

**Prerequisite-**Algebra I, Geometry,

**Description-**Personal finance describes the principles and methods that individuals use to acquire and manage income and assets. Students will understand that financial literacy is not an absolute state but is rather a changing matter subject to variables such as age, family, culture, and residence. This class will cover personal financial goals and the basics of personal finance, from creating and maintaining a budget and checkbook to saving money and investing in the stock market. Students will create and use Algebraic equations and concepts to analyze the different data present in financial planning.

### MISCELLANEOUS

**ACT PREP/COLLEGE SKILLS** (TSTP22001) (Semester) Elective.....1/2  
credit.....11, 12

This semester course will allow Seniors and Juniors to prepare in a structured instructional environment for their best possible test performance. The ACT Prep portion of the class will provide an overview of the test including: English, Math, Reading, and Science. Students will be given time to complete simulated ACT examinations. The college readiness portion of the class will help high school students become better prepared to meet the academic, emotional, and cultural challenges of making a successful transition to college. The College Readiness curriculum is designed to build in our students the skills that will be necessary for them to lay a solid foundation for success in college courses, including critical thinking, literacy, numeracy, and study skills such as note-taking, presentation, test-preparation, time management, and goal-setting.

**This class will not be offered in 2017-18 school year**

**COMPUTER TECHNOLOGY (CIS10201)** (Full Year) Elective. . . .1 Credit. . . 11, 12  
Class size limited to 15 students. Enrollment subject to instructor approval.

This course will focus on Web Design and Programming. Students will also be introduced to many opportunities available to them related to technology. Students will be introduced HTML, JAVA, and Basic languages. Students will also create and maintain websites and learn what makes an effective website.

**DRIVER'S EDUCATION** (Summer only) Elective.....Pass/Fail 1/4  
Credit.....9-12 Class size is limited to first 35 registrations paid in HHS office (checks payable to Horton High School).

Driver's Education is a state approved performance based course that will help a student get their restricted permit or driver's license. A student must complete both classroom and driving phase to pass the course and receive a certificate of completion. **The course is offered only during the summer.** The classroom session is ten days in length. The driving time will generally consist of six three-hour driving sessions. To be eligible to enroll, a student must have completed their eighth grade school year and be fourteen years of age before the first day of the class room portion of the summer session. There is a \$150.00 fee for the course.

### MUSIC; VOCAL AND INSTRUMENTAL

**ADVANCED CHOIR** (MUS05111) (Full Year) Elective.....1 Credit.....9\*, 10, 11,  
12\_Prerequisite: 1 credit in a secondary music class or \*permissions of instructor

Advanced Choir is a class for students with advanced music reading and singing skills. Although performances are an important part of the curriculum, other components of the class will include instruction in basic theory, music history, and vocal development. Requirements for enrollment include a singing audition and selection by the teacher. Students must meet the enrollment requirements each year, including the audition, to continue being in the class. Students are required to participate in all performances, most will be evenings and Saturdays. The instructor and administration will only grant exceptions on an individual basis. The members of this group will be required to purchase the designated clothing for public performances. The cost of these outfits will be the

responsibility of the student and parents.

**#Cost of specific costumes/outfits selected by this performance group is the sole responsibility of the student and parents. Outfits must be paid for prior to the first concert date or student will be #Cost of specific costumes/outfits selected by this performance group is the sole responsibility of the ineligible to perform, resulting in a 0% grade for the performance.**

**BAND (MUS05101)** (Full Year) Elective.....1 Credit.....9, 10, 11, 12 This class develops performance skills in many styles of instrumental music. During the year, students will participate in marching band, concert band, pep band, and if they so desire, small ensembles, solos, and jazz ensemble. Performance skills such as technical development, balance and blend, intonation, and musical interpretations are the primary areas of study. The band performs approximately 25 times a year and students are expected to be at all performances. This is a one year class and students are expected to have playing experience to enroll in this class or permission of the instructor.

**MIXED CHOIR (MUS05110)** (Full Year) Elective.....1 Credit.....9, 10, 11, 12 Mixed Choir is an open enrollment vocal music class for students in the 9th through 12<sup>th</sup> grades. Music reading skills and vocal production will be a major emphasis of the class. Other music appreciation type activities will also be included in curriculum, such as music styles and music history. The group will sing two or three part music. Students will be required to participate in performances, which will include a few evening concerts and competitions.

#### OFFICE

**LIBRARY AIDE (OFF22053)** (Full year) Elective.....1/2 Credit.....11, 12

Pre-requisite: Junior or Senior with no grade below "C", no more than 2 unexcused absences or tardies in the preceding semester. **The librarian must approve the prospective aide.** Library aides MUST be students in good standing, based on attendance, disciplinary history and academic success.

**THERE IS A LIMIT OF ONE LIBRARY AIDE PER BLOCK.**

Students selected as library aides will assist the librarian with basic operations of the library. These activities will include circulation, shelving borrowed items, preparing materials for classrooms, helping patrons with whatever resources are needed, and keeping the library presentable. The credit given is pass/fail.

**OFFICE AIDE (OFF22051)** (Full Year) Elective.....1/2 Credit.....11, 12 Prerequisite: Sophomore, Junior, or Senior with no grade below "C", fewer than eight absences and/or eight tardies in the preceding semester, **and with approval.**

**A VERY LIMITED NUMBER OF OFFICE AIDES ARE NEEDED. ONLY THOSE STUDENTS WHO MEET ALL OF THE CRITERIA WILL BE SELECTED.**

Students will assist the principals and high school secretaries. **Confidentiality and excellent attendance are a must.** The selected students should have above average knowledge of Word, Excel and other Office programs. The ability to be self motivated to find ways to help and manage time, to properly answer the phone, take accurate messages in a busy office, and deliver the message is also a must. Other tasks may include: run copies, count money, and distribute absentee lists. Credit will be given, but the grade will be pass/fail.

**TEACHER AIDE (OFF22995)** (Full Year) Elective.....1/2 Credit.....11, 12

Students can only be an aide for (1) one period during the day, including office and library aide. All aide positions must be approved by the supervising teacher and the principal.

Students will assist the teacher(s) assigned. **Confidentiality and excellent attendance are a must.** The selected students should have the ability to be self-motivated to find ways to help the teacher with planning activities, simple grading tasks, and computer input or typing. Other tasks may include running copies, helping with handing out assignments or anything else needed by the teacher. 1/2 credit will be given, but the grade will be pass/fail.

**TEACHER ASSISTANT (OFF22998)** (Full Year) Elective.....1 Credit.....11, 12  
Class size will be limited. Students will have an option of one class period or two depending on location and scheduling.

This class is open to students interested in the teaching profession or other related careers that involve the nurturing and education of children. This is a program of assisting students and/or teachers of the Horton Elementary School and Everest Middle School. The student will be required to tutor students individually or in small groups. The student may assist the classroom teacher with class projects or activities. Students will be required to submit a written report each quarter as a summary of their experiences. Other written assignments may be required as determined by the high school coordinator. Each semester, students will plan and execute one approved lesson and submit the written plan. This documentation along with attendance records, accurate daily log entries, completion of all written assignments and an evaluation by the supervising teacher will be the basis for the course grade.

**The student is required to provide his/her own transportation to and from the elementary or middle school.**

Students without a means of transportation should not choose this class. Parents/Guardians will be required to sign a waiver allowing the student to drive and/or to car pool with others for transportation.

Screening for enrollment will be based on attendance and discipline history of the student. This will be coordinated by the counselors at all buildings.

## PHYSICAL EDUCATION

**PHYSICAL DIMENSIONS (PE08001)** (Full Year) Required.....1  
Credit.....9

This curriculum is designed to provide adolescents with the knowledge and skills needed to engage in a physically active, healthy lifestyle throughout life. The following are the Content Standards for Health & Physical Education of Kansas and, will be the focus of this course:

- Physical Education:
1. Motor Skills
  2. Learning Concepts
  3. Active Lifestyle
  4. Is Physically Fit
  5. Personal and Social Behavior
  6. Values Physical Activity
- Health Education:
1. Mental & Emotional Health
  2. Family Living
  3. Growth and Development
  4. Nutrition
  5. Personal Health & Physical Activity
  6. Alcohol, Tobacco and Other Drugs
  7. Communicable and Chronic Diseases
  8. Injury Prevention and Safety



- 9. Consumer Health
- 10. Environmental Health

The curriculum will consist of six, three-week segments for each area during the year (three, three-week segments every semester.)

**WEIGHT TRAINING (PE08009)** (Full Year) Elective.....1 Credit.....10, 11, 12\*

Prerequisite: Sophomore standing with full credit in Physical Dimensions plus instructor permission. Students will receive instruction from a variety of exercise programs. We will use these to develop and enhance strength, flexibility, endurance, nutrition and athletic performance. Students will be able to plan their own goals, and fitness program to meet these goals for lifelong fitness. \*Any senior that is involved in varsity athletics during their senior year will be allowed to enroll with instructor permission.

**SCIENCE**

**ANIMAL SCIENCE (SCI18101)** (Full Year)..... Elective.....9,10,11,12 1 Full Non-Lab Science Credit

This class deals with Animal Science used in production agriculture. Emphasis will be on the production, care and management of plants, animals and their products. Food Science will be included in this course dealing with animal protein. Students will have experiments and projects, which involve research, records, and related activities.

**BIOLOGY I (SCI03051)** (Full Year) Required.....1  
Credit.....10

This class is an introduction to the field of biology. Emphasis will be on Cell Biology, Genetics and DNA, Ecology, Taxonomy and Animal Behavior. Basic laboratory skills in Biology are emphasized.

**BIOLOGY II (SCI03052)** (Fall Semester) Elective.....1/2 Credit. . . . . 11, 12

Prerequisite: Successful completion of Biology I

This is a one-semester class which explores taxonomy from general Biology I in greater detail, particularly that of the Animal Kingdom. Activities, labs, and dissections will be used to emphasize material discussed.

**CHEMISTRY I (SCI03101)** (Full Year) Elective.....1 Credit.....10, 11, 12

Prerequisite: Algebra I with "C" or better grade

Basic Chemistry builds on basic principles and concepts of chemistry: structure and arrangement of the basic parts of atoms (atomic theory), the combining of atoms into complex compounds. To do this topics in particle structure, reacting chemical systems, periodic law, gas laws, ionization, equilibrium systems, qualitative relations in reacting systems. Topics in organic chemistry, nuclear and atomic chemistry are also covered. This provides the background and basic concepts for Chemistry II as well as an adequate foundation for beginning college chemistry.

**CHEMISTRY II (SCI03102)** (Full Year) Elective.....1

Credit.....11, 12 Prerequisites: Chemistry I with a "B", or permission of teacher, Algebra I, Geometry and/or Algebra II

This class is an in-depth study of principles of chemistry. Emphasis will be placed on mathematical relations in concepts leading up to qualitative and quantitative principles of chemistry. The course will provide more in-depth study of organic, nuclear, and atomic chemistry.

**COLLEGE BIOLOGY (SCI06056)** (Full Year) Elective.....1/2 Dual Credit Course.....11,12

BS 101: College Biology— This general education course will examine the plant and animal kingdoms, their fundamental principles and processes of life, and their relationship to everyday life. The course consists of three hours of lecture plus three hours of laboratory work per week.

REQUIREMENTS: This is a 4 hour college class, which includes a lab credit. Students must pay the Highland Community College fee to get the four hours of credit. Those students who DO NOT take this for college credit, must get approval from the instructor prior to enrolling for the class.

**EARTH SCIENCE (SCI03001)** (Fall Sem) Elective.....1/2 Non-Lab Science  
Credit.....11,12

This course will focus on basic concepts of earth science. Topics will include minerals, rocks, soils, weathering, Earth's interior, earthquakes, running water, ground water, glaciers, deserts, wind, plate tectonics, atmosphere, and weather. The units of study will include activities, experiments and projects.

**This Class will not be offered in the 2017-18 School Year**

**ENVIRONMENTAL SCIENCE (SCI03003)** (Spr. Sem.) Elective.....1/2 Non-Lab Science  
Credit.....11,12

Prerequisites: Open to all students who have completed Biology I

The course will include a study of the cycles in nature, a deeper study of ecology including the dynamics of populations, communities, and eco-systems. The impact of humans (negative and positive) upon the environment will be an overall theme in the class. Student projects will be required that address an environmental theme.

**HUMAN ANATOMY & PHYSIOLOGY (SCI03053)** (Full Year) Elective.....1 Credit.....11,  
12 Prerequisite: Chemistry I with a (C) or better grade.

An upper level course designed for students interested in majoring in science, medicine, or veterinary medicine at the college level. The course will include an extensive section on Human Anatomy and Physiology as well as sections on Molecular and Cell Biology.

**PHYSICAL SCIENCE (SCI03159)** (Full Year) Required.....1 Credit.....9

An introduction to basic science principles in Physics, Chemistry, Earth Science, and Space Science designed to provide a strong background for higher level physical science courses and to meet Kansas State Science Standards. Application of science to everyday life will be stressed. An emphasis will be placed on laboratory skills and science processes.

**PHYSICS (SCI03151)** (Full Year) Elective.....1 Credit.....11,  
12

Prerequisites: Algebra I, Geometry and/or Algebra II, enrolling in the third year of math (Algebra II or Functions/Statistics/Trigonometry)

Physics covers the basic principles of motion (linear, curvilinear), energy and momentum, phases of matter, thermal effects on matter, wave transfer of energy as related to transverse and longitudinal waves, sound, light, atomic and nuclear physics.

**SPACE SCIENCE**    **(SCI03008)**    (Spring Semester)    Elective.....1/2 Non-Lab Science Credit.....11,12

This course will focus on basic concepts of space science. Topics will include history of astronomy, modern astronomy, earth-moon-sun positions, astronomical tools, properties of stars, star information, star death, galaxies, meteorites, asteroids, comets, and a study of our solar system. This class will include several mandatory evening observations. The units of study will include activities, experiments, and projects.

**This Class will not be offered in the 2017-18 School Year**

### **SOCIAL SCIENCE**

**AMERICAN GOVERNMENT**    **(SSC04151)**    (Full Year)    Required.....1 Credit.....11,12

The course will focus on using working knowledge and understanding of governmental systems of the United States and other nations with an emphasis on the U.S. Constitution, the necessity for the rule of law, and the rights, privileges, and responsibilities to become participants in the democratic process at the local, state, and national levels. This course is a year long course and is usually taken at the junior year (after 2016-17).

**AMERICAN HISTORY**    **(SSC04101)**    (Full Year)    Required.....1 Credit.....10,11

This course is a survey of the History of the United States of America. Emphasis will be concentrated in such topics as exploration and settlement of the new world, the Colonial Period, including the Revolutionary War, the development and problems of American government, development of the West, the World Wars, the Great Depression and the New Deal, and the Post World War Period.

**CIVICS**    **(SSC04161)**    (Fall Semester)    Elective.....1/2 Credit.....9,10

The course will focus on using working knowledge and understanding of our governmental system in the United States with an emphasis on all historical documents that shaped the United States government, and the basic structure of the three branches of our federal government. This is a 9-10 class and is offered for one semester.

**COLLEGE AMERICAN GOVERNMENT**    **(SSC04151)**    (2<sup>nd</sup> Sem)    Elective..... 1/2 Dual Credit Course..... 11,12

The study of the three branches of government and how they relate to one another. Students will also be able to understand the philosophies behind the government of the United States of America and better understand how our government works. The topics that will be covered will range from the forming of our constitution in 1789 to the strategy of our foreign policy in the 21st century.

Students may elect to take this class for 3 hours of college credit through Highland Community College with the payment of the tuition fee. Students must qualify with an ACT Reading score of at least 17 or with a qualifying

ASSET Reading score which is administered by an HCC representative and which would demonstrate the ability to do college level work

**ECONOMICS (BUS12105) (SSC04201)** (Spring Semester) Elective.....1/2  
Credit.....9, 10

The course will focus on using a working knowledge and understanding of major economic concepts, issues, and systems of the United States. The course will also concentrate on using decision-making skills as a consumer, producer, saver, investor, and citizen in an interdependent world. This is a 9-10 class and is offered for one semester.

**GENERAL SOCIOLOGY (SSC04258)** (Fall semester) Elective.....1/2 Dual Credit Course .....11, 12

Three hours of college credit from Highland Community College can be earned with payment of the tuition cost. Student must have an ACT Reading score of at least 17 or take and pass the HCC Reading test which is administered by an HCC representative and which would demonstrate the ability to do college level work

Concepts and elementary methods used in the study of groups. Special attention is given to norms, the social structure, human interaction in the learning process, deviance, and demography, social institutions, formal organizations, social stratification, racial and ethnic groups, collective behavior and social change

**SOCIAL PROBLEMS (SSC04999)** (Spring Semester) Elective.....1/2 Dual Credit Course .....11, 12

Three hours of college credit from Highland Community College can be earned with payment of the tuition cost. Student must have an ACT Reading score of at least 17 or take and pass the HCC Reading test which is administered by an HCC representative and which would demonstrate the ability to do college level work

This course is a study of a wide variety of social problems in our society including crime, racial discrimination, poverty, drug abuse, disorganization of social institutions, and rapid social change. This course applies sociological theories to explain social problems and examines various approaches used to solve these problems.

**WORLD HISTORY (SSC04051)** (Full Year) Elective..... Credit.....9, 10

The course will focus in using an understanding of significant individuals, groups, ideas, events, eras, and developments in the history of the United States and the world. The class will also provide a chance in utilizing essential analytical and research skills. This is a 9-10 class and is offered for a full year.

#### TRADE AND INDUSTRY

**CABINET CONSTRUCTION I (TRIN17007)** (Full Year) Elective.....1 Credit.....9, 10, 11

This course is designed as an introductory class in materials and processes of the woodworking industry. Students will cover many phases of the woodworking and cabinetry industry. Some of the topics stressed will be shop safety, measurement, reading drawings, wood joinery, finishing and figuring material costs. Studies will be reinforced through hands-on lab activities.

**CABINET CONSTRUCTION II (TRIN38007)** (Full Year) Elective.....1 Credit.....10, 11, 12  
**Prerequisite – Cabinet Construction I (must have at least a 70%)**

This course is designed for those students who want to further their knowledge about the woodworking and cabinet industry. It is designed to provide the prospective cabinetmaker with an opportunity to develop a higher degree of skill in the use of woodworking equipment as well as woodworking processes and techniques.

**HOME IMPROVEMENT (TRIN17002)** (Full Year) Elective.....1 credit.....10, 11, 12

**Prerequisite – Successful completion of at least 1 shop class. Admission to this class is by instructor permission.**

Class will spend the majority of time in on-site instruction, construction and remodeling of the project house. On-site work will consist of demolition, framing, drywall, electrical, plumbing, heating and cooling, windows and door installation, exterior finish as well as other maintenance needs. Students will be responsible for some personal equipment (warm clothing/coveralls, safety glasses). Tools will be provided by the school. Final permission for enrollment will be made by the instructor.

**INTRODUCTION TO INDUSTRIAL TECHNOLOGY (TRIN38001)** (Semester) Elective.....1/2 Credit.....9, 10

This class is an introductory course designed to instruct students in the basic skills necessary for occupations in the construction or manufacturing field. Students wanting to pursue upper level classes in technology education are encouraged to take this beginning course.

**ADVANCED MATERIALS TECHNOLOGY (TRIN38010)** (Full Year) Elective.....1 Credit.....11, 12  
**Prerequisite – Cabinet Construction I and Cabinet Construction II**

A progressive application level course furthering the study of CNC equipment, composite panel products, and veneering, and the processes involved with fabricating goods with these technologies. Students will be exposed to special procedures such as applying plastic laminate, veneering and making dovetail drawers.

### VOCATIONAL

**VOCATIONAL WORK PROGRAM (SPED 22998)** (Full Year) Elective.....1 Credit.....10,11,12

**Note:** This course is open to Freshmen on case by case basis.

**Prerequisite:** students must have a current IEP with this service specified among their list of Special Education services.

**Objective(s):** Students will learn basic employment /work /transition skills that will enable them to secure and maintain employment during and/or beyond High School. This course teaches the following fundamentals in employment:

- A. **Appearance:**  
Dress and grooming appropriate for the job
- B. **Attitude:**  
Willingness to work and to learn  
Following instructions  
Accepting Corrective Feedback  
Taking Teasing

**C. Dependability**

Attendance  
Being on Time

**D. Human Relations & Communication**

Appropriate Interpersonal Skills  
Consideration of Others  
Using Appropriate Speech & Language

**E. Workmanship**

Acquiring a Knowledge of the job  
Completing tasks with reasonable speed and accuracy  
Working alone with minimal supervision  
Taking care of equipment

In addition to these skills, students will learn about the business to which they are assigned. The students are non-paid trainees who are limited to one school year at a facility. The Vocational Coordinator arranges the worksite assignments and provides support as needed.