NESS CITY HIGH SCHOOL COURSE OFFERINGS

NESS CITY HIGH SCHOOL - NESS CITY U. S. D. NO. 303

ACCREDITATION

Ness City High School is accredited by the Kansas State Department of Education (KSBE-QPA). Graduates will be admitted to postsecondary schools provided they meet their entrance requirements.

GRADUATION REQUIREMENTS **IHF-R**

All students who meet graduation requirements of the board will be awarded diplomas. An official transcript of credits and grades for each student will provide documentation that verifies achievement of graduation requirements. To become eligible to graduate, a student must successfully complete and pass the minimum required courses specified by the State Board of Education and an additional 10 units of approved credit. Alternative Graduation Plan- In special need, individual alternative plans for graduation may be developed by the faculty and administration for presentation to the board for its approval. Approved April 6, 1992

91-31-12h. KANSAS STATE BOARD OF EDUCATION GRADUATION REQUIREMENTS

Except as otherwise provided in this regulation, school policies shall stipulate that pupils shall be eligible for graduation only upon completion of requirements, which include at least the following:

Four (4) units English Language Arts, which shall include reading, writing, literature, communication, and grammar. The building administrator may waive up to one unit of this requirement if the administrator determines that a pupil can profit more by taking another subject.

Three (3) units history and government, which shall include world history; United States history; United States government, including the Constitution of the United States; concepts of economics and geography.

Three (3) units Science, which shall include physical, biological, and earth and space science concepts and which shall include at least one unit as a laboratory course.

Three (3) units Mathematics; including algebraic and geometric concepts.

One (1) unit Physical Education, which shall include health and which may include safety, first aid, or physiology

One (1) unit of Fine Arts which may include art, music, dance, theater, forensics, and other similar studies selected by a local board of education

Six (6) units of elective courses

Twenty-one (21) units of credit, needed for graduation.

SEE PAGE 2 for Ness City High School Requirements.

EARLY GRADUATION (Cf.IHF) **JFCA**

The student must reasonably be expected to satisfactorily complete all state and local graduation requirements of subjects and credit units or their accepted equivalents in order for consideration to be given to any request. Each request is to be determined by the board on the merits of the individual circumstances; one case shall not set a precedent for others. A student who, for educational and vocational reasons, wishes to graduate from high school in less time than the normal four-year grade 9-12 sequence may request permission for early graduation. The student and parents shall consult with high school administrative and/or guidance personnel in order to develop a graduation plan. The student shall request in writing to the board permission for early graduation with reasons supporting his plan and request. Examples of reasons to be given consideration are: hardship circumstances, vocational opportunities, enlistment in the military occupations, pursuit of a continuous specialized education objective, and college entrance. A parent or the legal guardian of the student must submit a letter in support of the student's request for early graduation, and such letter is to accompany the student's written request. The request letters to the board are to be submitted to the superintendent no later than six months prior to the anticipated completion of the required high school program. Approved May 4, 1992

STUDENT CLASSIFICATION - STUDENT CLASS LOAD

To be classified a Sophomore, students must have 6 units of credit at the start of the school year, Junior 12 units of credit, and Senior 20 units of credit. All students at Ness City High School are required to enroll in a minimum of eight (8) classes.

UNIT OF CREDIT

One (1) unit of credit will be issued for satisfactorily completing and passing any approved subject offered five (5) periods a week for thirty-six (36) weeks. One-half (1/2) unit of credit will be issued for satisfactorily completing and passing any approved subject offered five (5) periods a week for eighteen (18) weeks.

TRANSCRIPT
An official transcript of credits and grades will be compiled and maintained for all students. It is the responsibility of the student and parents to consult with the school counselor regarding accumulation of credit and graduation status. Each student should periodically confer with the school counselor regarding meeting the requirements and credits needed for graduation.

ENROLLMENT - INSTRUCTIONS/INFORMATION/REQUIRED COURSES

MINIMUM REQUIRED COURSES

4 units of English Language Arts
(3 units must be in English)
3 units of Math
3 units of Natural Science
(includes 1 lab course)
1 unit of PE/Health
3 units of Social Science
1 unit of Fine Arts (Art or Music)
.5 unit of Oral Communications
12.5 Electives
28 total units

High School 2028+

3.5 units of English Language Arts
.5 units of Speech/Communication
1 unit of Fine Arts (Art or Music)
3 units of Social Science (World, US, Government)
3 units of Science (Physical, Biological, Earth/Space*)
3 units of Math (Algebraic, Geometric)
1 unit STEM Elective (Adv. Math, Science, or CTE course)
*coursework completed during 8th grade year

.5 units of Physical Education
.5 units of Health
.5 units of Financial Literacy
4.5 units of IPS Choices
7 units of other Choices

In addition, two of the following must be completed:

Post-Secondary Assets

- Youth Apprenticeships
- 40 or more Community Service Hours
- Client-centered project
- Work-based learning directly related to the IPS
- Industry-recognized certification
- Seal of Biliteracy
- ACT Composite (21+)
- WorkKeys level Silver +
- 9+College Credit Hours
- State Assessment Scores of 3or 4 in ELA, Math, and/or Science
- ASVAB per requirements of selected military branch
- SAT score of 1200+
- Completing Board of Regents Curriculum
- CTE Scholar
- Eagle Scout or Gold Scout
- 4-H Kansas Key Award
- 2 or more High School Athletics/Activities
- 90% High School Attendance
- Senior Exit Interview/Project

COLLEGE PREPARATORY CURRICULUM
As you move through high school and start thinking about college, consider the following suggestions which will help make an easier transition from high school to college: If you prepare for college-level work while in high school, you will not have to spend college time taking "basic" courses. A strong college preparatory academic background may assist you in "testing out" of college introductory courses; therefore, you could proceed to more advanced courses commensurate with your level of knowledge and interest.

Avoid the "minimum requirement" trap. Both high school and college academic programs stipulate minimum requirements; however, additional elective opportunities are also offered. Explore the advanced opportunities rather than just meeting the minimum requirements, which may not be sufficient to adequately prepare you to reach your goals.

Ness City High School provides many learning opportunities outside of the classroom. The experiences gained from participating in athletics, plays, concerts, forensics and school organizations will provide a "well-rounded" education.

A successful high school experience will require the development of good study habits. Learn to listen, take notes, and research information. Become acquainted with your library and establish time for reading books, magazines and newspaper articles-- both for enjoyment and preparing for class.

Also, students are encouraged to prepare for college by completing the Kansas Board of Regents recommended curriculum. Preparation less than suggested will narrow your options; more preparation will broaden them.

We additionally recommend course work in the following subject areas depending on your interests and goals: Fine Arts (Music, Art); and Applied Technology (Agriculture, Business, Computer, Industrial, & Personal and Family Living).

The following recommended college preparatory curriculum is only a structural foundation. If you are in regular attendance and are attentive, study, and complete required assignments, you should be successful-- both in high school and college. Although Ness City High School is not a large school, it is unique in its broad curriculum offerings, small class sizes, range of instructional equipment, and strong professional staff. Remember, you will get out of your high school career only what you put into it.

(Dual Credit) - Indicates course is approved for three hours of college credit through BCCC or other post-secondary institution upon enrollment and payment of tuition. Enrollment through the Partnered Online Program will take place in the high school classroom by Ness City High School's School Counselor. Transcripts reflecting college credit must be requested from and issued by the institution. High School transcripts will reflect only the one unit of credit for those courses issued by NCHS. To receive college credit, students will be required by the institution to take the ACCUPLACER placement test and/or obtain a minimum score or minimum ACT score as specified by the college. If students do not achieve the specified score and the course is not an online course, they may still take the class for high school credit only if available.

Kansas Board of Regents Qualified Admissions

ESU, PSU, FHSU, & WSU:
- *ACT 21+ (SAT 1060) or Cumulative GPA 2.25+
- *Cumulative GPA 2.0+ for College Credit earned in High School

K-State:
- *ACT 21+ (SAT 1060) or Cumulative GPA 3.25
- *Cumulative GPA 2.0+ for College Credit earned in High School

KU:
- *Cumulative GPA 3.25
  - **Or** ACT 21+ (SAT 1160) and Cumulative GPA 2.0+
- *Cumulative GPA 2.0+ for College Credit earned in High School

Kansas Scholars Curriculum Requirements for State Scholarship Application
(To be recognized as a Kansas Scholar and be eligible for the State of Kansas Scholars Scholarship, – based on financial need. Can also be used for admission into Regents Universities.)

English Language Arts – 4 units
Natural Sciences – 3 units; Biology, Chemistry, AND Physics
Math – 4 units; Must be Algebra I/Integrated Algebra I or higher (8th grade Algebra counts)
Social Sciences – 3 units
Foreign Language – 2 units

Fulfilling the curriculum requirements does not automatically qualify a student as a State of Kansas Scholar - student must also obtain a specific score on the ACT as well.

VALEDICTORIAN/SALUTATORIAN CRITERIA

The Valedictorian and Salutatorian award shall go to the students with the highest and second highest cumulative G.P.A. respectively, and who have met the following additional criteria:

1. They must be in enrolled and in attendance at Ness City High School for a minimum of three (3) semesters prior to graduation.
2. They must have taken three (3 credits) of the following higher education courses: College Comp I, College Comp II, College Speech, Intermediate College Algebra, Statistics, College Algebra, Calculus, Chemistry, Physics, and Anatomy and Physiology.

PREREQUISITES

The prerequisites for each course will be found in the course description section.
General Rule: A student may take a course with a lower grade level requisite than their classification at enrollment time. A student may not take a course with a higher grade level requisite than their classification unless approved by the school counselor **and** principal. (Example: A 10th grader may enroll in 10th grade or 9th grade courses; however, they may not enroll in 11th and 12th grade courses, unless approved.)

SUBJECT AREA ORGANIZATION

To organize the academic program at Ness City High School, the curriculum is arranged according to the following subject areas: Agricultural education, art, business education, communications, computer education, driver education, foreign language, industrial education, language arts, mathematics, music, family/consumer science, physical education, science, and social studies.

The following course descriptions are listed by subject area. Information includes: subject area goals, course titles, prerequisites, grade levels, and a brief description of each course offered. In preparing enrollment plans, the student should check the course description to see if they meet the prerequisite and grade level of each desired course.

AGRICULTURAL EDUCATION

All classes in the Agriculture Education Department are divided into three main components, as approved by the Kansas Department of Education. These are classroom/laboratory instruction, the Supervised Agricultural Experience Program, and The National FFA Organization. Students who enroll in these classes are expected to participate in each of the three areas. The Agricultural Education Department focuses on building development skills in all students in the many areas of the field of agriculture.

ADVANCED AG MECHANICS

PREREQUISITE:	Ag Mechanics	COURSE #:	18402A, 18402B
CLASS LIMIT: 10		DURATION:	Year-long
GRADE LEVEL:	11-12	LAB FEE:	TBD

This course will follow the Ag Mechanics with more in-depth coverage of projects to take the student skill level to the highest possible for high school. The instructor will assign work unless the student selects a meaningful project.

AG BUSINESS & LEADERSHIP

PREREQUISITE:	JH Ag	COURSE #:	18201A, 18201B
GRADE LEVEL:	11-12	DURATION:	Year-long

The purpose of this course is to assist students in developing their knowledge, attitudes, skills and aspirations regarding leadership development in an agricultural setting or provide them with the beginning foundation for any setting. The goal of this course is to encourage students to be knowledgeable, caring, decision-makers. Areas of study will include: marketing basics, commodity marketing, obtaining and using credit effectively, preparing financial statements, and managing the agriculture business.

AG FABRICATIONS

PREREQUISITE:	Ag Welding I	COURSE #:	18409A, 18409B
GRADE LEVEL:	11-12	DURATION:	Year-long

Courses provide students with the skills & knowledge that are specifically applicable to the construction, maintenance, and repair of structures integral to the agricultural industry, including but not limited to animal enclosures, irrigation systems, & storage facilities. In these courses, students typically study design, planning, & construction knowledge & skills (such as survey, carpentry, plumbing, concrete, & electrical systems), in addition to the safe operation of tools and machines).

AG MECHANICS

PREREQUISITE:	JH Ag	COURSE #:	18401A, 18401B
CLASS LIMIT: 10		DURATION:	Year-long
GRADE LEVEL:	9-12	LAB FEE:	TBD

This course consists of preparing students for advanced project design and construction. This class is designed to allow students to develop their mechanical skills by designing, engineering, and constructing useful projects. Students must be highly motivated and willing to strive to increase their skill level. The instructor will assign work unless the student selects a meaningful project.

AG WELDING

PREREQUISITE:	JH Ag	COURSE #:	18404A, 18404B
CLASS LIMIT: 10		DURATION:	Year-long
GRADE LEVEL:	9-12	LAB FEE:	TBD

This course provides students with the skills and knowledge that are specifically applicable to the tools and equipment used in the agricultural industry. In learning to apply basic industrial knowledge and skills (engines, power, welding, and carpentry, among others), students may explore a broad range of topics, including the operation, mechanics, and care of farm tools and machines; the construction and repair of structures integral to farm operations; an introduction or review of electricity and power; and safety procedures.

AG INTERNSHIP

PREREQUISITE:		COURSE #:	18048A, 18048B
CLASS LIMIT: 5			
GRADE LEVEL:	12	DURATION:	Year-long
		LAB FEE:	TBD

Provides students to gain knowledge and skills for various Agriculture Careers. Students will provide a detailed log of experiences and hours while participating.

ANIMAL HEALTH/VET TECH

PREREQUISITE:	JH Ag	COURSE #:	18105A, 18105B
CLASS LIMIT: 12			
GRADE LEVEL:	9-12	DURATION:	Year-long
		LAB FEE:	$5.00

Veterinary Science courses impart information about the causes, diagnosis, and treatment of diseases and injuries of animals, typically emphasizing domestic and farm animals. Course topics focus on anatomy and physiology, nutrition, behavior, and reproduction, but may also include other areas of study as appropriate.

ANIMAL SCIENCE

PREREQUISITE:	JH Ag Science	COURSE #:	18101A, 18101B
CLASS LIMIT: 12			
GRADE LEVEL:	9-12	DURATION:	Year-long
		LAB FEE:	TBD

Animal Production/Science courses impart information about the care and management of domestic and farm animals. These courses may cover animal nutrition, health, behavior, selection, reproduction, anatomy and physiology, facilities, product processing, and marketing. Students may study a particular species (swine, cattle, horses, fowl, sheep, and so on), or they may learn how to care for and maintain livestock as a more inclusive study.

APPLICATIONS IN HORTICULTURE

PREREQUISITE:	JH Ag	COURSE #:	18071A, 18071B
CLASS LIMIT: 7 if nested, 12 if not			

GRADE LEVEL: 10-12 DURATION: Year-long
LAB FEE: $10.00

Applications in Horticulture provides instruction that incorporates plant science, soil and media mixtures, plant identification and optimal environments, and landscape design. This course will expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agriculture crops and vegetables. The course emphasizes applying such knowledge & skill to the design, establishment, and maintenance of lawns, parks, open space & similar environments. This course would include opportunities to design public and private spaces. Students will have the opportunity to produce, market different types of greenhouse plants grown in the schools greenhouse. Skills in management, plant identification, pests control, starting plants, watering, fertilizing, and salesmanship will be developed.

FLORICULTURE & GREENHOUSE MANAGEMENT

PREREQUISITE: JH Ag COURSE #: 18057A, 18057B
CLASS LIMIT: 7 if nested, 12 if not
GRADE LEVEL: 10-12 DURATION: Year-long
LAB FEE: TBD

Plant Identification and floral design are necessary knowledge skills along with the selection of greenhouse plants and management of greenhouses for production of plants and flowers in the industry.

HORTICULTURE

PREREQUISITE: JH Ag COURSE #: 18052A, 18052B
CLASS LIMIT: 7 if nested, 12 if not
GRADE LEVEL: 10-12 DURATION: Year-long
LAB FEE: TBD

General Horticulture courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils and media mixtures, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed and pest control, and floral design.

PLANT AND SOIL SCIENCE

PREREQUISITE: JH Ag COURSE #: 18058A, 18058B
CLASS LIMIT: 7 if nested, 12 if not
GRADE LEVEL: 10-12 DURATION: Year-long
LAB FEE: TBD

Courses expose students to the art and science of growing plants, shrubs, trees, flowers, fruits, agricultural crops and vegetables. In doing so, they cover a wide variety of topics, including greenhouse and nursery operations, soils & media mixtures, soil chemistry, fertility, mineralogy, hydrology, soil conservation, irrigation, fruit and vegetable production, turf/golf course management, interior and exterior plantscaping, irrigation systems, weed & pest control, & floral design.

PRODUCTION WELDING PROCESSES (AG WELDING II)

PREREQUISITE: Ag Welding COURSE #: 18407A, 18407B
CLASS LIMIT: 7 if nested, 12 if not DURATION: Year-long
GRADE LEVEL: 10-12 LAB FEE: TBD

An application level course designed to instruct students in the knowledge and skills needed for solving fabrication problems, to weld joints in the V & OH positions, and perform Plasma cutting.

NATURAL RESOURCES

PREREQUISITE: JH Ag COURSE #: 18504A, 18504B
CLASS LIMIT: 9-12 LAB FEE: TBD

Natural Resources Management courses combine the fields of ecology and conservation with planning for the efficient use and preservation of land, water, wildlife, and forests. Within the general area of natural resources management, these courses usually cover specific topics and uses, such as hunting or fishing preserves, forest production and management, wildlife preservation, and human outdoor recreation.

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ART

Opportunities shall be provided each student within the limits of their capacity to develop the ability to work in a studio situation in a school setting; develop the ability to demonstrate the basics of good design principles and the major principles of composition; develop the ability to discuss and critique their work and other students' work.

ART I

PREREQUISITE:	NONE	COURSE #:	05154A, 05154B
CLASS LIMIT: 20		DURATION:	Year-long
GRADE LEVEL:	9-12	LAB FEE:	TBD

This course is designed to introduce students to the elements of the visual arts, as well as color and basic design. It is also intended to provide practice for beginning art students in various drawing and painting media: watercolor, pencil, etc. will be covered. Students will learn about a new artist each month to increase their knowledge in art.

ART II

PREREQUISITE:	Art I	COURSE #:	05154A, 05154B
CLASS LIMIT: 20		DURATION:	Year-long
GRADE LEVEL:	10-12	LAB FEE:	TBD

This course is designed to expose students to more complex approaches and theories regarding the visual arts. Students will be expected to display a more mature understanding of the elements and principles of art. Students will be expected to explore a wide variety of media; including, but not limited to, sculpture, painting, ink, and chalk. Students will learn about a new artist each month to increase their knowledge in art.

ART III

PREREQUISITE:	Art I and II	COURSE #:	05154A, 05154B
CLASS LIMIT:	20	DURATION:	Year-long
GRADE LEVEL:	11-12	LAB FEE:	TBD

This course is designed to provide students with an opportunity to create on a more individualized level. Emphasis will be placed on design, planning, and craftsmanship. The students will go into more depth in projects than Art I & II and will do critiques of their own artwork as well as others. Students will learn about a new artist each month to increase their knowledge in art.

ART IV

PREREQUISITE:	Art I, II, III	COURSE #:	05154A, 05154B
CLASS LIMIT:	20	DURATION:	Year-long
GRADE LEVEL:	12	LAB FEE:	TBD

This course is designed to give the dedicated art students an opportunity to individualize his/her work. A portfolio will also be developed and students will prepare for college. Students will be required to complete at least one artist study a year. Students will learn about a new artist each month to increase their knowledge in art.

ART - INDEPENDENT STUDY

PREREQUISITE:	Art I, II, III, and **pre-approval from art instructor**	COURSE #:	05997A, 05997B
GRADE LEVEL:	12	LAB FEE:	TBD
		DURATION:	Year-long

This course is for Seniors who have completed Art III and would like to develop independent work in addition to taking Art IV. This course is for students considering a degree in art.

PHOTO IMAGING/PRINCIPLES OF ILLUSTRATION

PREREQUISITE:	Intro to Drawing/Computer App.	COURSE #:	30105, 30101
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GRADE LEVEL: 10-12 DURATION: Year-long

Photo Imaging teaches the technical skills needed to produce quality images for use in a variety of applications. Topics include use of equipment, software and techniques to take, edit and manipulate digital images.

Principles of Illustration explores a variety of media, tools and supports as a means to communicate ideas. Topics include an understanding of illustration as it applicable to careers in graphic design, animation, fashion/textile design, industrial design, web design, architecture, interior design and/or fine arts. Techniques in traditional and digital illustration applications will be explored as directly linked to ever-changing social trends.

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BUSINESS EDUCATION

Students who complete courses in the business education area will perform these objectives:

1. Demonstrate some common business skills for personal use.
2. Discover skills, abilities, interests, and basic information that will enable them to competently handle personal business activities.
3. Develop good communication skills which are of great importance for effective conduct in society and the business world.
4. Develop a business personality and business-like attitude.
5. Develop logical thinking.
6. Develop the proficiencies and background necessary for enrollment in an institution of higher education or for entering the world of work.

ACCOUNTING I

PREREQUISITE:	NONE	COURSE #:	12104A, 12104B
GRADE LEVEL:	11-12	DURATION:	Year-long

Accounting I is available starting with the 10th grade. Accounting I covers the principles and procedures necessary for entry level employment in the accounting/bookkeeping field as well as those necessary for accurate personal record keeping. The course includes the entire accounting cycle as well as basic principles, concepts, and procedures of application. The student will become acquainted with some of the terminology and processes involved in the use of data processing equipment. Some computerized accounting will be completed. The student will progressively add to accounting knowledge, starting with a very simple system and working into a more complex accounting system. This will include check writing, reconciliation of a bank statement, notes and interest, journalizing entries, financial reports, partnerships and corporations, a voucher system, a petty cash system, an inventory system, and accruals. It is highly recommended that the student have keyboarding skills in order to minimize the time needed to work through various exercises completed at the computer.

ADVANCED ACCOUNTING

PREREQUISITE:	Accounting I	COURSE #:	33108A, 33108B
GRADE LEVEL:	12	DURATION:	Year-long

Computerized Accounting II is designed to give the student an opportunity to acquire a more thorough knowledge of the techniques which are used in solving business problems. Emphasis is placed on the uses that can be made of accounting data in partnership(s), corporations, and various accounting departments in businesses. The student is introduced to various accounting careers including partnership(s) accounting, specialized accounting clerks, corporate accounting, cost accounting clerks, junior accountants, and assistant accountants. Detailed procedures relating to depreciation are studied. Accounting II is an excellent college preparatory course for the student planning to study business management, business administration, and accounting at a higher level institution. It also provides the job training skills necessary for the student entering the accounting work force immediately after graduation.

COLLEGE ACCOUNTING (Dual credit online; possibly CTE Excel course)

PREREQUISITE:	Advanced Accounting	COURSE #:	33109A, 33109B
GRADE LEVEL:	12	DURATION:	Year-long

The course includes financial accounting, managerial accounting and financial statement analysis topics. Compared to the traditional, stand-alone financial accounting and managerial accounting courses, this course encompasses more topics and
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learning outcomes than the traditional financial accounting course, and at least a quarter of the topics and learning outcomes in a traditional managerial course. This course would be an online year of college General Accounting and college Accounting I.

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COMPUTER EDUCATION

1. Students demonstrate the ability to use computers to communicate effectively to live, learn and work in a global society.
2. Students work effectively both independently and in groups to learn computer concepts and apply the use of computers to solve problems.
3. Students use the computer to solve problems and produce documents, understanding that there are multiple ways to complete a task, and that the finished product may be presented in a variety of forms.
4. Students will use their knowledge of computers to cross curriculum and enhance their overall education.
5. Students demonstrate positive attitudes toward the use of computers while at the same time understanding the implications of an Information Age.

DIGITAL MEDIA DESIGN & PRODUCTION

PRODUCTION CLASS - **Principal and instructor Approval for enrollment**

PREREQUISITE:	Computer Applications	COURSE #:	30151A, 30151B
GRADE LEVEL:	11-12	DURATION:	Year-long
CLASS LIMIT:	6		

Students will learn the basics of yearbook production by producing the NCHS Yearbook. Students will become familiar with several computer desktop publishing techniques and programs and practice their writing, computer, photographic, and graphic layout skills in the production of the yearbook. The students will learn and practice self-discipline and time management skills in order to meet the deadlines required by the yearbook publishing company.

Digital Media Design and Production will provide students with the opportunity to apply the fundamental techniques learned in the Digital Media Technology course through the production of a multi-media project for public presentation. Topics include developing a production schedule, working as a team, utilizing composition principles, and embedding audio, video or other content in digital formats.

INTRO TO COMPUTER SCIENCE

PREREQUISITE:	NONE	COURSE #:	10001A, 10001B
GRADE LEVEL:	10-12	DURATION:	Year-long

This course is to provide students with exposure to various information technology occupations and the information technology pathways available: Network Systems, Information Support and Services, and Programming and Software Development. Students will demonstrate core competencies in safety, electronics and basic digital theory, overview of the internet and operating systems, basic IT terminology and concepts, organization of data and materials, and basic programming. At the conclusion of the course, students should be prepared to make an informed decision about which Information Technology program(s) of study they would like to pursue in conjunction with their IPS.

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DRIVER EDUCATION

DRIVER EDUCATION (SUMMER SCHOOL)

PREREQUISITE:	Enrolled as a freshman and at least 14 years old	COURSE #:	08152
GRADE LEVEL:	9-12	FEE:	TBD
		DURATION:	Summer course

This course is designed to improve students' knowledge, attitude and driving skills before they become of age to obtain a restricted driver's license. The students must complete classroom instruction, where they are tested on various concepts of driving. The classroom portion of the course is followed by driving and observation time.

EDUCATIONAL ENHANCEMENT

BASIC PROGRAM-WORK STUDY IDA-R

The superintendent will handle participation by students in a work-study program on an individual basis. The superintendent shall develop guidelines for use in approving/rejecting applications from students or the business community for participation in a work-study program. Approved March 8, 1993

CAREER INTERNSHIP

PREREQUISITE:	None	COURSE #:	22153A, 22153B
GRADE LEVEL:	12	DURATION:	Year-long

Workplace Experience courses provide students with work experience in a field related to their interests. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Note: if the particular subject area is known, use the code associated with the Workplace Experience course within that subject area.

INDIVIDUAL LEARNING TIME

PREREQUISITE:	None	COURSE #:	22003
GRADE LEVEL:	7-12	DURATION:	Year-long

This course is designed to teach and reinforce study skills. Individualized study plan prepared by instructors to assist students in building school achievement.

Teaching/Training Pathway courses

FAMILY STUDIES

PREREQUISITE:	Career and Life Planning	COURSE #:	22208
GRADE LEVEL:	9-12	DURATION:	Semester

Family Studies emphasizes building and maintaining healthy interpersonal relationships among family members and other members of society. These courses often emphasize (but are not limited to) topics such as social/dating practices, human sexuality and reproduction, marriage preparation, parenthood and the function of the family unit, and the various stages of life. They may also cover topics related to individual self-development, career development, personal awareness, and preparation for the responsibilities of a family member and wage earner.

HUMAN GROWTH & DEVELOPMENT

PREREQUISITE:	Career and Life Planning	COURSE #:	45004
GRADE LEVEL:	9-12	DURATION:	Semester

Human Growth and Development provides students with knowledge about the physical, mental, emotional, and social growth and development of children from conception to preschool age. In addition, these courses help students discover how parents should respond to the various stages of childhood. Course content typically includes topics such as prenatal and birth processes; responsibilities and difficulties of parenthood; fundamentals of children's emotional and physical development; and the appropriate care of infants, toddlers, and young children.

NUTRITION AND WELLNESS (taught with Freshmen PE)

PREREQUISITE:	Career and Life Planning	COURSE #:	08057
GRADE LEVEL:	9-12	DURATION:	Semester

Health and Life Management courses focus as much on consumer education topics (such as money management and evaluation of consumer information and advertising) as on personal health topics (such as nutrition, stress management,

drug/alcohol abuse prevention, disease prevention, and first aid). Course objectives include helping students develop decision-making, communication, interpersonal, and coping skills and strategies.

TEACHING AS A CAREER (may be online via FuelEd)

PREREQUISITE:	Career and Life Planning	COURSE #:	19151A, 19151B
GRADE LEVEL:	**9**-12	DURATION:	Year-long

This credit allows a student to spend one period in the elementary school under the supervision of a classroom teacher. Students may be assigned a wide range of duties from listening to a child read to doing specific projects with a child or group of children. Students must remember that they are in a role in which they may have a great deal of influence over a child and must dress and behave appropriately. At least once each nine weeks, the student will research, organize and present, under the direction and with the approval of the classroom teacher, a lesson to the class, minimum 20 minutes. Students must also write a two page summary of their teaching experience and what they learned from the teaching experience and hand it in to the principal upon completion of the assignment. Students will also present an oral presentation to students in either grade 9, 10, or 11. The student will notify the principal of the date and time of the presentation so that he/she may evaluate the presentation. It will be the student's responsibility to make the arrangements with a teacher to present to their class.

TEACHING INTERNSHIP

PREREQUISITE:	Teaching Observation	COURSE #:	19152A, 19152B
GRADE LEVEL:	11-12	DURATION:	Year-long

Educational Methodology courses prepare students to teach and guide others. These courses typically provide opportunities for students to develop their own teaching objectives, to design lesson plans, and to experience teaching in a controlled environment. Students examine and practice teaching strategies, learning styles, time management and planning strategies, presentation and questioning skills, classroom management, and evaluation techniques.

TEACHING OBSERVATION

PREREQUISITE:	Career and Life Planning	COURSE #:	42251A, 42251B
GRADE LEVEL:	10-12	DURATION:	Year-long

Teaching observation courses build upon the understanding of the requirements of the teaching profession through student observations and study of best practices in multiple classroom settings. Observation analysis will be focused around the elements of effective instruction – planning and preparation, the learning environment, instructional strategies, and teacher/trainer professional responsibilities.

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FOREIGN LANGUAGE

Opportunities shall be provided each student to:

1. Develop a basic vocabulary in the target language.
2. Speak conversationally using the basic vocabulary developed.
3. Read short passages with emphasis on sight-translation.
4. Learn cultural and historical aspects of the countries where the target language is spoken.

SPANISH I (may be online)

PREREQUISITE:	None	COURSE #:	06101A, 06101B
GRADE LEVEL:	9-12	DURATION:	Year-long

Students will develop a basic vocabulary of approximately 500 words in the target language. They will use these words to develop the four major areas of language skills: speaking, reading, writing, and oral comprehension. Students will study basic phonics and grammatical structures of the language. They will practice and use basic phrases and expressions used in greetings and other situations. Students will study some of the cultural aspects of the Hispanic world.

SPANISH II (may be online)

PREREQUISITE:	Spanish I	COURSE #:	06102A, 06102B
GRADE LEVEL:	10-12	DURATION:	Year-long
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This course is designed for students who have completed Spanish I and have desire to improve their speaking, reading, writing, and comprehension skills in Spanish. Students will continue to expand their vocabulary and learn to use the past tense in speaking, reading and writing. Students will continue to explore Hispanic culture.

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INDUSTRIAL EDUCATION

Each student shall be provided the opportunity to explore, discover, and develop interests, skills, and aptitudes in the area of visual communications, power and energy, and industrial materials.

1. Develop aptitudes and interest in industrial areas.
2. Develop skills in industrial areas that can be used for both vocational and vocational interests.
3. Develop safe work habits, and the ability to work cooperatively with others.
4. Develop knowledge, understanding and appreciation of industry.

ADVANCED DRAFTING/CAD

PREREQUISITE:	Cabinetmaking & Furniture Design I	COURSE #:	21150A, 21150B
GRADE LEVEL:	10-12	DURATION:	Year-long
		LAB FEE: TBD	

An advanced level course that provides students with the knowledge and skills needed to utilize CAD design and software.

ADVANCED MATERIALS TECHNOLOGY

PREREQUISITE:	Cabinetmaking & Furniture Design I	COURSE #:	38010A, 38010B
GRADE LEVEL:	11-12	DURATION:	Year-long
		LAB FEE: TBD	

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.

ADVANCED STUDIES

PREREQUISITE:	Cabinetmaking & Furniture Design I	COURSE #:	38007A, 38007B
GRADE LEVEL:	10-12	DURATION:	Year-long
		LAB FEE: TBD	

This is an advanced level application course covering specific research-based topics in architectural design.

FURNITURE & CABINETRY FABRICATION (formerly Cabinetmaking II)

PREREQUISITE:	Cabinetmaking & Furniture Design I	COURSE #:	38007A, 38007B
CLASS LIMIT: 16		DURATION:	Year-long
GRADE LEVEL:	10-12	LAB FEE: TBD	

Cabinetmaking courses provide students with experience in constructing cases, cabinets, counters, and other interior woodwork. Students learn to distinguish between various types of furniture construction and their appropriate applications, and how to use various woodworking machines and power tools for cutting and shaping wood. Cabinetmaking courses cover the different methods of joining pieces of wood, how to use mechanical fasteners, and how to attach hardware. Initial topics may resemble those taught in Woodworking courses; more advanced topics may include how to install plastic laminates on surfaces and how to apply spray finishes.

DRAFTING/CAD I

PREREQUISITE:	Intro to Industrial Technology	COURSE #:	21107A, 21107B
GRADE LEVEL:	9-12	DURATION:	Year-long

This course is an introduction to the many types of drawing used in industry and technology. Students will learn to read and make a variety of drawings, including orthographic, pictorial, working, architectural, and others. This class will be beneficial to all students and particularly to anyone wishing to pursue a career in drafting, architecture, engineering or those fields where it will be necessary to interpret or make technical drawings. Beginning instructions will be taught for AutoCAD.

ELECTRICAL & SECURITY SYSTEMS
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PREREQUISITE:	CAD I	COURSE #:	17113
GRADE LEVEL:	11-12	DURATION:	Semester

Course design to teach basic skills required for installation of electrical and security systems.

HVAC TECHNOLOGY

PREREQUISITE:	CAD I	COURSE #:	17056
GRADE LEVEL:	11-12	DURATION:	Semester

These courses synthesize basic and advanced principles in heating, ventilation, and air conditioning and include topics such as air filtration methods, humidity control, and the installation and maintenance of heat pumps, furnaces, and air conditioners. Students also learn about climate control systems; electrical wiring; systems design; sizing, fabricating, and installing ductwork; installing and maintaining climate control systems; and safety.

MASS PRODUCTION I

PREREQUISITE:	Intro to Industrial Technology	COURSE #:	13052A, 13052B
GRADE LEVEL:	9-12	DURATION:	Year-long

Materials and processes courses expose students to the tools, machines, and processes that may be encountered in manufacturing-related occupations. In particular, these courses stress the analysis, testing, and processing of metals, plastics, woods, ceramics, and composite materials.

MASS PRODUCTION II

PREREQUISITE:	Mass Production I	COURSE #:	39052A, 39052B
GRADE LEVEL:	10-12	DURATION:	Year-long

An application level course designed to instruct students in the knowledge and skills required for fabricating products using a variety of materials (wood, plastic, metal, composites.)

PLUMBING TECHNOLOGY

PREREQUISITE:	CAD I	COURSE #:	17058
GRADE LEVEL:	11-12	DURATION:	Semester

Plumbing courses provide students with instruction in installing waste and vent systems, water and gas pipes, trim, and fixtures. Skills taught include cutting and joining various types of pipe (for instance, steel, plastic) using various methods (cement, seat method, and so on).

RESEARCH & DESIGN FOR PRE-CONSTRUCTION

PREREQUISITE:	CAD I	COURSE #:	21109A, 21109B
GRADE LEVEL:	10-12	DURATION:	Year-long

CAD (Computer Aided Drafting) is designed to build on and improve the drawing skills taught in CAD I. It is intended for students who have a high level of aptitude and/or interest in the area of drafting. Students will spend more time on technical drawing and CAD involvement.

RESIDENTIAL CARPENTRY I

PREREQUISITE:	Intro to Industrial Technology	COURSE #:	17002A, 17002B
GRADE LEVEL:	9-12	DURATION:	Year-long

Residential Carpentry courses provide students with basic knowledge and skills required for construction of commercial, residential, and institutional structures. These courses provide experiences and information (typically including career opportunities and training requirements) regarding construction-related occupations such as carpentry and cabinetmaking, Students engage in activities such as reading blueprints, finishing surfaces, and providing maintenance. Students will participate in class projects on campus.

RESIDENTIAL CARPENTRY II

PREREQUISITE:	Residential Carpentry I	COURSE #:	38002A, 38002B

GRADE LEVEL: 10-12 DURATION: Year-long

Residential Carpentry courses provide students with basic knowledge and skills required for construction of commercial, residential, and institutional structures. These courses provide experiences and information (typically including career opportunities and training requirements) regarding construction-related occupations such as carpentry and cabinetmaking, Students engage in activities such as reading blueprints, finishing surfaces, and providing maintenance. Students will participate in class projects on campus.

WOODWORKING PRINCIPLES (formerly Cabinetmaking I**)**

PREREQUISITE:	Intro to Industrial Technology	COURSE #:	17007A, 17007B
CLASS LIMIT:	16	DURATION:	Year-long
GRADE LEVEL:	9-12	LAB FEE: TBD	

Cabinetmaking courses provide students with experience in constructing cases, cabinets, counters, and other interior woodwork. Students learn to distinguish between various types of furniture construction and their appropriate applications, and how to use various woodworking machines and power tools for cutting and shaping wood. Cabinetmaking courses cover the different methods of joining pieces of wood, how to use mechanical fasteners, and how to attach hardware. Initial topics may resemble those taught in Woodworking courses; more advanced topics may include how to install plastic laminates on surfaces and how to apply spray finishes.

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LANGUAGE ARTS

Students will be given opportunities to
•Express themselves orally, visually, and in written forms
•Use conventions of form and content properly
•Use the Writing Process and 6 Trait analysis to construct technical, persuasive, narrative, and expository writing
•Follow written and oral directions successfully
•Analyze the writing of others
•Produce researched manuscripts using various documentation styles
•Problem solve using the district adopted method
•Improve basic skills in reading, writing, spelling, grammar, mechanics, and vocabulary acquisition

COLLEGE COMPOSITION * (offered by BCCC Partnered Online) DURATION: Year-long
Composition I & Composition II (DUAL CREDIT w/ BCCC) ONE PER SEMESTER

GRADE LEVEL:	12	COURSE #:	01102A, 01102B
PREREQUISITE:	English III, English ACCUPLACER score of 255 or ACT score 17 Reading ACCUPLACER score of 255 or ACT score of 18		

This course will offer the following opportunities: analysis of students' own and others' writing; production of several expository essays using the following expository and narrative techniques of development: description, exemplification, process analysis, cause and effect, comparison and contrast, argumentation; use of the Writing Process and 6 Trait analysis to construct persuasive, narrative, and expository writing; skill acquisition in the MLA method of research and documentation; production of at least 1 research paper; survey analysis of British literature from approximately 450 A.D. to the 20th Century may be included; review of basic skills in writing, grammar, mechanics, and vocabulary acquisition; use of the problem solving model adopted by the district; following of written and oral directions.

ENGLISH I

PREREQUISITE:	NONE	COURSE #:	01001A, 01001B
GRADE LEVEL:	9	DURATION:	Year-long

This course will offer the following opportunities: Introduction of the elements of literature including fiction, nonfiction, drama, and poetry; use of the conventions of form and content of technical, persuasive, narrative, and expository writing; use of the Writing Process and 6 Trait analysis to construct technical, persuasive, narrative, and expository writing; acquisition of study and test taking skills; improvement of basic skills in reading, writing, grammar, mechanics, and vocabulary acquisition; use of the problem solving model adopted by the district; following written and oral directions.

ENGLISH II
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PREREQUISITE:	English I	COURSE #:	01002A, 01002B
GRADE LEVEL:	10	DURATION:	Year-long

Students will produce essays that demonstrate knowledge of the six-trait writing model; apply vocabulary and grammar skills by defining words taken from reading selections and theme lessons and constructing original sentences using those words as specific parts of speech; read, identify and explain elements found in literature portraying various cultures; predict and draw conclusions from multicultural readings; justify and defend orally and in writing the positions taken as a result of those readings; and produce a variety of fictional and nonfictional writing.

ENGLISH III

PREREQUISITE:	English II	COURSE #:	01003A, 01003B
GRADE LEVEL:	11	DURATION:	Year-long

Integrates the language arts--grammar, composition, vocabulary, reading, speaking and listening--to direct student learning and comprehension. A survey of American literature includes discussion and criticism. Writing assignments will stimulate creative, imaginative, and divergent thinking to formulate and solve problems and communicate the results. Students will write a formal, MLA format research paper.

ENGLISH IV

PREREQUISITE:	English III	COURSE #:	01004A, 01004B
GRADE LEVEL:	12	DURATION:	Semester

This course will offer the following opportunities: survey analysis of British literature from approximately 450 A.D. to the 20th Century, including the political, social, religious, scientific, and artistic movements of each literary period; use of conventions of form and content of technical, persuasive, narrative, and expository writing; use of the Writing Process and 6 trait analysis to construct technical, persuasive, narrative, and expository writing; review of student and test taking skills; review of basic skills in writing, grammar, and mechanics; vocabulary acquisition; use of the problem solving model adopted by the district; following of written and oral directions; production of researched manuscripts using a documentation style.

ORAL COMMUNICATIONS

PREREQUISITE:	NONE	COURSE #:	01151A, 01151B
GRADE LEVEL:	12	DURATION:	Semester

This course will cover the fundamental parts and types of speech and communication. Students will write and present informative and demonstrative speeches and other original orations. Students will also learn how to write a resume' and how to present themselves in an interview. Interpretative reading of prose and poetry, and acting may also be included.

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MATHEMATICS

The mathematics department of Ness City High School believes that each student should be provided the opportunity to:

1. Develop mathematical literacy
2. Develop an appreciation of the practical use of mathematics
3. Develop a mathematical behavior that fits students for useful lives in a democratic society
4. Gain an appreciation of the importance of mathematics in the development of our society
5. Enable the students to discover vocational possibilities, which are open to people with various levels of mathematical competence.

ALGEBRA I

PREREQUISITE:	8th grade math	COURSE #:	02052A, 02052B
GRADE LEVEL:	9-12	DURATION:	Year-long

This course is a study of functional relations, the connections among ways of representing these relationships and the use of representations of functions to solve problems. The course emphasis is on connections, including connections to the real world, as well as connections to the various math strands. Probability and discrete mathematics are also covered.
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ALGEBRA II

PREREQUISITE:	Algebra I	COURSE #:	02056A, 02056B
GRADE LEVEL:	10-12	DURATION:	Year-long

This course builds on the content and learning started in Algebra I and/or Geometry. The sequence from variable to equation to function is extended into using functions as models for applied settings. Geometric and algebraic concepts are connected to topics in probability and statistics and trigonometry. Students taking this course MUST purchase a TI-84+ graphing calculator.

NOTE: With permission of the instructor, a student may enroll in both Geometry and Algebra II during the same school year.

CALCULUS

PREREQUISITE:	Trigonometry or permission of instructor	COURSE #:	02121
GRADE LEVEL:	11-12	DURATION:	Semester

This course covers the study of limits, derivatives, and integrals, and applications of all these concepts. A rich array of interesting applications in biology, business, chemistry, economics, engineering, finance, physics, the social sciences, and statistics prepares the college bound student for college calculus application courses. Students taking this course must purchase a TI-84+ graphing calculator. An average of 30 minutes daily homework is to be expected.

COLLEGE ALGEBRA (may be offered via DCCC Distance Education)

PREREQUISITE:	ACCUPLACER score of 31/ACT of 23	COURSE #:	02057
GRADE LEVEL:	11-12	DURATION:	Semester

This course is designed for those students who plan to attend college and are required by a major to complete the course. The course is an extension and application of algebra and the graphical representation of functions. The functions include constant, linear, quadratic, absolute value, square root, piecewise, cubic, polynomial, rational, exponential, and logarithmic. The course develops topics of exponents, radicals, linear/nonlinear equations and inequalities, and systems of equations and inequalities. Students taking this course must purchase a TI-84+ graphing calculator. An average of 30 minutes daily homework is to be expected.

GEOMETRY

PREREQUISITE:	Algebra I	COURSE #:	02072A, 02072B
GRADE LEVEL:	10-12	DURATION:	Year-long

This course enhances the development of the student's logical thinking skills. Through hands-on activities, students investigate the properties of basic figures of geometry, explore geometric concepts and discover formulas. Algebra I skills are reinforced in this course.

INTEGRATED ALGEBRA II

PREREQUISITE:	Integrated Geometry or Geometry	COURSE #:	02061
GRADE LEVEL:	11-12	DURATION:	Semester

Integrated Algebra II course emphasizes the teaching of mathematics as problem solving, communication, and reasoning, and emphasizes the connections among mathematical topics and between mathematics and other disciplines. Integrated Algebra II will strengthen the ideas that were studied in Integrated Algebra I and Integrated Geometry. This course will also cover Exponential Functions, Trigonometric Functions, Functions, and Rational Expressions and Equations.

ROBOTICS

PREREQUISITE:	None	COURSE #:	
GRADE LEVEL:	9-12	DURATION:	Year-long

Robotics courses develop and expand students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, pneumatics, computer basics, and programmable logic controllers.

STATISTICS (may be offered via DCCC Distance Education)

PREREQUISITE:	College Algebra	COURSE #:	02205
GRADE LEVEL:	12	DURATION:	Semester

Statistics courses involve the major concepts and methods used to collect, analyze, and draw conclusions from data. Topics typically include populations and samples, measures of central tendency and variability, hypothesis testing, presentation, and making statistical inferences.

INTERMEDIATE COLLEGE ALGEBRA

PREREQUISITE:	Algebra II or Integrated Algebra II	COURSE #:	02059
GRADE LEVEL:	11-12	DURATION:	Semester

This course addresses a variety of mathematical topics needed to prepare students for success in college-level mathematics. Mathematics topics include: numeracy; manipulating and evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving tables; verbal, algebraic, and graphical interpretations of functions; rational expressions; solving systems of linear and quadratic equations; properties of higher degree equations; and operations with rational exponents.

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MUSIC

The music department contributes to the educational needs of youth through classroom instruction and by participation in activities and programs. Activities are designed to develop interests and skills which can be useful in adult life and to furnish training for those students who wish to specialize in music. Providing sound musical experiences results in the development of resources for the worthwhile use of leisure time, the opportunities to discover unusual talent, participation with peers in worthwhile group endeavors and giving the student resources for an aesthetically enriched home and community life both while in school and in later life.

1. To teach the basic concepts of general music.
2. To develop better listening habits in relation to music.
3. To enable students to enjoy all kinds of music.
4. To experience as varied a repertoire of musical composition and style as possible.
5. To have students participate actively in developing a music program of excellence and high performance standards.
6. To produce programs and concerts for community enjoyment.

BAND

PREREQUISITE:	PREVIOUSLY ENROLLED IN JH BAND	COURSE #:	05101A, 05101B
GRADE LEVEL:	9-12	CLASS LIMIT	50

Band is a class in which the fundamentals of instrumental music are taught. The students combine the various levels of proficiency and musicianship into an overall level of performance. The basic fundamentals of balance, blend, intonation and tone quality are stressed. Groups will include ensembles, solos, concert band, marching band, and pep band. As much theory and history as possible will be included with these groups. Participation in all performances is required. You must be enrolled in band or vocal to participate in contests. Band is a KSHSAA sanctioned activity, so you must meet eligibility requirements to participate in contests. These contests are a graded portion of the course.

VOCAL

PREREQUISITE:	PERFORMANCE CLASS	COURSE #:	05110A, 05110B
GRADE LEVEL:	9-12	CLASS LIMIT	50

The study of various forms of music and understanding the factors necessary for interpreting and performing this music will be covered. Students are encouraged to audition for small ensembles. Students in vocal music must attend regular rehearsals and perform in concerts and contests. You must be enrolled in vocal or band to participate in contests. Vocal is a KSHSAA sanctioned activity, so you must meet eligibility requirements to participate in contests. These contests are a graded portion of the course.

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PHYSICAL EDUCATION

Within the limits of their capabilities, students will be provided with the opportunity to:

1. Improve the total fitness of their body.
2. Develop and practice good sportsmanship.
3. Develop skills and knowledge of various games and sports.
4. Practice cooperation in team efforts.
5. Experiment in expression of free movement.
6. Improve kinesthetic sense.
7. Develop an understanding of, and respect for, their physical body and how it works.
8. Develop knowledge and techniques of first aid.

FRESHMAN P.E.

PREREQUISITE: PARTICIPATION CLASS; REQUIRED COURSE FOR GRADUATION
GRADE LEVEL: 9
COURSE #: 08052A, 08052B
DURATION: Year-long

The Physical Education portion of this course is designed to introduce skills in various team and individual sports and to create an understanding of the rules and courtesies contained with each sport. Health will make up 50% of the course and will familiarize students with information necessary to make wise choices for maintaining a healthy body.

FITNESS & CONDITIONING

PREREQUISITE: Freshman P.E.
GRADE LEVEL: 10-12
COURSE #: 08005A, 08005B
DURATION: Year-long
CLASS LIMIT: 20

Fitness/Conditioning Activities courses emphasize conditioning activities that help develop muscular strength, flexibility, and cardiovascular fitness. Individual and/or team sports may also be played at times.

WEIGHTS

PREREQUISITE:
GRADE LEVEL: 9-12
COURSE #: 08009A, 08009B
DURATION: Year-long
CLASS LIMIT: 16

This course is designed primarily for highly motivated students who are determined to enhance their strength for their specific interscholastic sport or activity. It will consist of researched and structured lifting programs that will be carried out four days a week. One day a week will be set aside to improve speed, agility, explosiveness, and flexibility.

RULES AND OFFICIATING

PREREQUISITE:
GRADE LEVEL: 9-12
COURSE #: 08049
DURATION: Semester
CLASS LIMIT: 16

RefReps online officiating provides curriculum and online modules to educate and teach sports officiating classes in the rules and techniques of officiating. Any student that completes the course work will be allowed to become a KSHSAA registered official for one sport at no cost within their first year of completion.

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SCIENCE

The science department of Ness City High School believes that each student should develop an appreciation for problem solving using science and its relationship to our personal environment.

1. To stress and develop scientific literacy.
2. To develop an appreciation of the practical use of science.
3. To develop a scientific behavior which will better fit students for useful lives in a democratic society.
4. To help the student gain an appreciation of the importance of science in the development of our society.
5. To enable the student to discover the vocational possibilities which are open to people with various levels of scientific competence.
6. To acquaint the student with science as a way of thinking, to enable them to deal with ideas, draw logical inferences, analyze evidence, and draw conclusions of the best available evidence.
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ANATOMY & PHYSIOLOGY

PREREQUISITE: Biology COURSE #: 03053A, 03053B
(It is highly recommended that students have earned a C or better in Biology)
GRADE LEVEL: 11-12 DURATION: Year-long

Taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

BIOLOGY

PREREQUISITE: NONE COURSE #: 03051A, 03051B
GRADE LEVEL: 10 DURATION: Year-long

The student will develop several fundamental skills and master some basic concepts related to the scientific method, ecology, cell structure and function, genetics, evolution, microorganisms, plants, and animals, with emphasis on those selected by the Kansas State Board of Education for inclusion on the 10th grade State Assessment.

CERTIFIED MEDICATION AIDE (offered online; funded through Excel in CTE)

PREREQUISITE: Licensed as CNA COURSE #: 36156
GRADE LEVEL: 12 DURATION: Semester

A program that prepares students to administer prescribed medications; observe and report patient reactions and side effects; and perform related emergency and recording duties under the supervision of nurses and/or physicians. Includes instruction in basic anatomy and physiology, common medications and their effects, taking vital signs, oxygen administration, medication administration and application, record-keeping, and patient observation.

CERTIFIED NURSING ASSISTANT (offered online; funded through Excel in CTE)

PREREQUISITE: NONE COURSE #: 14997
GRADE LEVEL: 11-12 DURATION: Semester

Health Care Sciences—Independent Study courses, often conducted with instructors as mentors, enable students to explore health-related topics of interest. Independent Study courses may provide students with an opportunity to expand their expertise in a particular specialization, to explore a topic in greater detail, or to develop more advanced skills.

CHEMISTRY

PREREQUISITE: Physical Science and Biology COURSE #: 03101A, 03101B
(It is highly recommended that students have earned a C or better in Physical Science)
GRADE LEVEL: 11-12 DURATION: Year-long

This course is a standard chemistry course. The student will review measurement and problem solving skills and acquire and master fundamental concepts associated with matter and energy, chemical compounds and reactions, stoichiometry calculations, kinetic theory and gas laws, atomic structure, the periodic law, chemical bonding, molecular structure, and nuclear chemistry.

EMERGENCY MEDICAL TECHNICIAN

PREREQUISITE: NONE COURSE #: 44060A, 44060B
GRADE LEVEL: 11-12 DURATION: Year-long

A technical level course designed to provide skills and knowledge necessary to sit for the EMT certification test. Course is taught by a certified EMT instructor and follows competencies set forth by the certifying agency.

EMERGENCY MEDICAL TECHNICIAN II

PREREQUISITE: NONE COURSE #: 44065A, 44065B
GRADE LEVEL: 12 DURATION: Year-long

An Application Level course that is a continuation of the EMT I Technical Level course, designed to further the students' knowledge and skills needed to attain EMT certification.

ENVIRONMENTAL SCIENCE

PREREQUISITE:	Physical Science	COURSE #:	03003A, 03003B
GRADE LEVEL:	11-12	DURATION:	Year-long

This is a year-long course that introduces students to environmental science through hands on activities and projects. The course allows students to explore environmental science careers.

INTRO TO HEALTH SCIENCE (offered online through Edgenuity)

PREREQUISITE:	NONE	COURSE #:	14000
GRADE LEVEL:	9-12	DURATION:	Semester

REQUIRED FOR HEALTH SCIENCE PATHWAY. Provides students with the basic knowledge of health/wellness professionals in private business and industry, community organizations, and health care settings. Includes instruction in personal health, community health and welfare, nutrition, epidemiology, disease prevention, fitness and exercise, and health behaviors.

MEDICAL TERMINOLOGY (offered online; funded through Excel in CTE)

PREREQUISITE:	NONE	COURSE #:	14154
GRADE LEVEL:	11-12	DURATION:	Semester

In Medical Terminology courses, students learn how to identify medical terms by analyzing their components. These courses emphasize defining medical prefixes, root words, suffixes, and abbreviations. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.

PHLEBOTOMY TECHNICIAN (offered online funded through Excel CTE)

PREREQUISITE:	NONE	COURSE #:	14104
GRADE LEVEL:	11-12	DURATION:	Semester

In Phlebotomy courses, students acquire knowledge, skills, and experiences related to the drawing of blood and typically learn about such topics as infection control, sterilization practices, medical/hospital procedures and environments, diagnostic procedures, and the process of drawing blood.

PHYSICAL SCIENCE

PREREQUISITE:	NONE	COURSE #:	03159A, 03159B
GRADE LEVEL:	9	DURATION:	Year-long

Physical Science courses involve 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.

PHYSICS

PREREQUISITE: Physical Science, Biology, and Algebra II COURSE #: 03151A, 03151B
(It is highly recommended that students have earned a C or better in all three classes.)
GRADE LEVEL: 12 DURATION: Year-long

Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

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SOCIAL SCIENCE
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Each student should gain an understanding and appreciation of their relationship with other people, with our society, with our government, and with the international community. To implement this philosophy, courses shall be provided which will enable each student to:

1. Develop understanding of the relationship between the individual and all aspects of society.
2. Develop the ability to differentiate between truth and allegations, and to maintain an open mind.
3. Develop an appreciation of human relationships and responsibilities among all people.
4. Develop an appreciation of our form of government.
5. Develop respect and understanding for our American heritage.
6. Understand cultural differences in the world.
7. Develop a broader awareness of local, national and international events.

AMERICAN GOVERNMENT/ECONOMICS

PREREQUISITE:	NONE	COURSE #:	04151A, 04151B
GRADE LEVEL:	12	DURATION:	Year-long

American government is designed to give the students a good understanding of our governmental institutions, and help them apply the principles and ideals and demonstrate characteristics of responsible citizenship. Students will compare and contrast the major forms of government and economic systems in the world today, describe the development and discuss the principles of the US Constitution, examine the civil rights and liberties of citizens under the Bill of Rights, discuss the basic rights and responsibilities of citizenship in the US, analyze the American two-party system and the electoral process, evaluate the roles of Congress and the executive and judicial branches in the governmental process, and analyze the roles and powers of state and local government. Economics is designed to give students an understanding of scarcity/opportunity cost, markets and prices, competition and market structure, incentives and the role of profit.

AMERICAN HISTORY

PREREQUISITE:	NONE	COURSE #:	04103A, 04103B
GRADE LEVEL:	11	DURATION:	Year-long

American history is designed so students will analyze key events in the emergence and expansion of the US as a world power, after 1900. Students will evaluate the development of the US during the post Civil War era, analyze the American involvement in World War I and its effect on the United States, evaluate the social and economic changes of the US in the 1920's, examine economic problems and evaluate the New Deal of the 1930's, analyze the role of the US in World War II, assess the emergence of the US and the consequences of being a superpower in the post World War II era, evaluate the domestic and foreign turmoil of the 1960's and the impact on the American society, assess domestic and foreign affairs of the US government during the 1970's, and appraise the actions of the US as a world leader, since 1980.

GENERAL PSYCHOLOGY (Dual Credit through BCCC Partnered Online)

PREREQUISITE:	ACCUPLACER reading 255/ACT 15	COURSE #:	04254A, 04254B
GRADE LEVEL:	11-12	DURATION:	Year-long

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.

HISTORY IN MOVIES

PREREQUISITE:	NONE	COURSE #:	04999A, 04999B
GRADE LEVEL:	9-12	DURATION:	Year-long

Students in this course will watch movies with historical significance. They will discuss and determine whether the information presented in the movie is historically accurate. Through the simple acts of watching movies, doing research, and having discussions, we seek to find a more in-depth look at various parts of US and world history. This is a chance for a deep dive into topics we don't normally have time for or spend extra time on interesting time periods. The diverse themes discussed include wars/police actions, gangs, mental health, health insurance, due process, banking, government regulations, colonialism, music, culture, and civil rights. The ultimate goal is critical thinking.

WORLD HISTORY/GEOGRAPHY

PREREQUISITE:	NONE	COURSE #:	04051A, 04051B
GRADE LEVEL:	10	DURATION:	Year-long

Students will develop a working knowledge and understanding of significant individuals, groups, ideas, events, and eras in the history of the world. This shall include the analyzation and examination of the changes in European thought and culture resulting from the Renaissance and Reformation; the economic and social consequences of European exploration and expansion; the significance of Asian Civilizations; the effects of the French Revolution on the political systems of Europe; the social, economic and political change brought about by the Industrial Revolution; the motives and impact of imperialism; the causes of anti-colonial movements; the causes and immediate consequences of World War I and World War II; the Cold War and its impact on the regions of the world, and the emergence of the Middle East as an influential region.

FINANCIAL LITERACY (EMPLOYABILITY AND LIFE SKILLS)

PREREQUISITE:	NONE	COURSE #:	22990
GRADE LEVEL:	10	DURATION:	semester

Financial literacy course provides students with an understanding of the concepts, principles and skills involved in making and applying sound financial decisions. This course emphasizes earning income, spending, saving, investing, managing credit and managing risk.

APPENDIX A

EXCEL IN CTE COURSES
The following courses are offered through community and technical schools with funding for the courses from Excel CTE. Juniors and Seniors can take these as dual credit courses. Students who take these courses while in high school do not pay tuition. There may be book fees and other minimal fees that must be paid by the student. These courses are online. Courses that are available are determined by college and are subject to change.

Animal Science courses
Business courses (including Accounting courses)
CDL
CNA/CMA
Criminal Justice/Corrections courses
Early Childhood courses
IT and Computer courses
Medical courses
Pharmacy Technician courses
Phlebotomy

PARTNERED ONLINE COURSES
Numerous general education courses are offered through Barton Community College for a discounted tuition rate. These courses are transferable to other institutions throughout the state. Some of these courses include the following, but this list is subject to change.

American History to 1877
American History 1877 to Present
Public Speaking
Intro to Sociology
Computer Concepts & Applications
Creative Writing
A & P

EDGENUITY ONLINE COURSES
Other elective courses may be available through Edgenuity, an online program. These courses would count towards high school credit only.