Newton Community High School

Course Handbook 2017-2018

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TERMINOLOGY/DEFINITIONS

Our course handbook is designed to assist our students and parents in understanding the procedures and guidelines of the academic program at Newton Community High School. Individual course descriptions can be found on the following pages.

Course Credit	Indicates the amount of credit earned by the student for successful completion of course requirements in a reporting semester.
Prerequisite	A prerequisite is a course, grade level, or requirement (such as a driver's license) which must be completed or acquired before certain other courses may be taken.
Semester	A school year is divided into two semesters. The dates of the two semesters are decided by the JCCU1 Board of Education and Superintendent.
Grading Period	A grading period for NCHS is the same as 1 semester. NCHS has 2 grading periods per year. (semester 1 and semester 2)
Progress Report	When one quarter of each grading period is completed, the students receive a progress report. These reports serve to alert parents that students are in academic trouble. Students who have earned D+ or below will receive this report. Half way through the semester all students will receive a progress report regardless of grades earned. When three-fourths of each grading period is completed, the students receive a progress report.
Report Card	At the end of each semester each student will receive a report card with a letter grade for each course, attendance, and if the child has academic honors; it will be noted.
Transcript	The student's semester grades and ACT test(s) are recorded. This document is the student's official high school record.
GPA	Grade Point Average
Cumulative GPA	Total number of points earned per letter grade per course that has been completed. The points are divided by the number of courses listed on the transcript with the exception of physical education, driver education and career practicum. This action is completed at the end of each semester.
Graduation Credits	The total number of credits earned from completed courses at NCHS. This includes all courses taken.
Class rank	The cumulative grade points of all the students in each grade level are listed in order from highest to lowest. This ranking is done each semester after the grade points are calculated. The student with the highest cumulative GPA is ranked number one in the class. Students who have tied in GPA points will hold the same rank number. For example, two students are tied for first with the same cumulative GPAs; both students would be ranked number one. The next student in the rankings would be number three.
Dual Credit	Students receive high school and college credit at the same time. NCHS dual credit is through Frontier Community College, with the exception of one course through Olney Central College.
Credit Recovery	Online based program used by NCHS for students who have failed a class(es) and are behind on graduation credits.

NCHS GRADING SYSTEM

All semester grades with the exception of grades from physical education, driver education, and career practicum are included in the computation of the grade point average. All grades are unweighted. The grade point average is determined by using the letter grade's point value to calculate the grade point average.

LETTER GRADE	MINIMUM PERCENTAGE	LETTER GRADE POINTS
A	92.5%	4.000
A-	89.5%	3.667
B+	86.5%	3.333
B	82.5%	3.000
B-	79.5%	2.667
C+	76.5%	2.333
C	72.5%	2.000
C-	69.5%	1.667
D+	66.5%	1.333
D	62.5%	1.000
D-	59.5%	0.667
F	59% and below	0.000
P	Passing	0.000
I	Incomplete	0.000

HONOR ROLL

Newton Community High School's honor roll is computed using grade point averages for each semester. It is not a cummulative grade point average which would include all semesters completed at the high school level. The following scale signifies honor's placement for a student's semester grade point average.

HIGHEST HONORS	4.000
HIGH HONORS	3.500 – 3.999
HONORS	3.000 – 3.499

GRADUATION REQUIREMENTS

Graduation from NCHS requires the fulfillment of courses and examination requirements as outlined by the State Board of Education and the Jasper County Board of Education.

All one-semester courses contained to a one-period session when completed with a passing grade receives .5 credit.
All one-semester courses contained in a two-period session when completed with a passing grade receives 1 credit.
All two-semester courses contained in a one-period session when completed with a passing grade receives 1 credit.
All two-semester courses contained in a two-period session when completed with a passing grade receives 2 credits.

Students must earn the following credits to graduate from Newton Community High School.

English	4 credits
Mathematics	3 credits
Science	2 credits
Social Studies American History Government Economics or Resource Management	2 credits 1 credit .5 credit .5 credit
Health Education	.5 credit
Physical Education and a CPR class	4 credits
Elective from the following areas: Art, music, foreign language, or vocational education (Proficiency in American Sign Language shall be considered an alternative to a foreign language.)	1 credit
ALL GRADUATION REQUIREMENTS MUST BE MET BEFORE PARTICIPATING IN COMMENCEMENT	

NOTE: *Every student enrolled in public school is required to engage in physical education daily unless they have a waiver, or a physician's statement stating they are physically or emotionally unable to meet this requirement.*

TESTS REQUIRED BEFORE GRADUATION REQUIREMENTS ARE COMPLETED

A student must successfully pass tests on the United States and Illinois State Constitutions to meet the NCHS graduation requirements. These tests are given in the Government course during the student's senior year.

REQUIREMENTS FOR COLLEGE

The chart below provides ***general guidelines*** for undergraduate admissions to ***Illinois public universities.*** The requirements are different for students planning to attend a community college for a one-year certificate or a two-year applied science degree. The requirements can also vary if a student is applying to a specific program at a university. For this reason, many specific question should be directed to the college or university admissions department. Final admissions decisions are always up to the colleges.

ACADEMIC AREAS	MINIMUM NUMBER OF CREDITS REQUIRED
English	4
Math	3-4 (Does not include Practical Math)
Science	3
Social Studies	3
Foreign Language	2-3 are required at UIUC, UIC and some other highly selective universities

STUDENT GRADE LEVEL CLASSIFICATION

Students are classified at a grade level based upon the number of credits earned at the end of each semester. Students must meet the following criteria for each grade level below.

GRADE LEVEL	ACADEMIC CREDITS	PHYSICAL EDUCATION CREDITS
Sophomore	5	1
Junior	10	2
Senior	15	3

- *All students are required to be enrolled in academic classes plus physical education.*
- *If a student fails a required class, it must be repeated.*

Each semester students are evaluated by the credits earned to designate grade level status. For example, if the student was a second year freshman at the end of their freshman year and had earned enough credits at the first semester of the following year to become a sophomore; the student would be promoted at that time.

ACT and SAT

REGISTER EARLY

Students who are considering attending a college/university are strongly encouraged to take the ACT and/or SAT in the spring of their junior year. The ACT is usually administered at NCHS on the April national test date. Students are encouraged to register early so they will be able to select NCHS as their testing site. Students may register and check deadlines online for the national test dates at www.actstudent.org. ***The SAT will be administered to all juniors during the school day as part of state standardized testing in the spring.*** Students who wish to take the SAT more than once can register and check registration deadlines for additional test dates at www.sat.org/register.

2017-18 ACT NATIONAL TEST DATE SCHEDULE
September 9, 2017
October 28, 2017
December 9, 2017
February 10, 2018
April 14, 2018
June 9, 2018
July 14, 2018

2017-18 SAT NATIONAL TEST DATE SCHEDULE (ANTICIPATED)
August 26, 2017
October 7, 2017
November 4, 2017
December 2, 2017
March 10, 2018
May 5, 2018
June 2, 2018

NOTE

Colleges/universities may expect students to take a writing component as part of their testing. If students are planning to pursue an education degree in Illinois, they can take the ACT or SAT writing component. If the student's score is high enough, the student will not have to take Basic Skills Test for enrollment in the education program. ***When registering, use all four of your options to send ACT or SAT scores to colleges***. The scores will be sent directly from ACT or SAT and you will not be charged an additional fee. Some universities may request an SAT subject test score. Students can register for these online as well.

EXTRA FEES INFORMATION

There is an extra fee for registering late. There is a fee for the writing component.

IMPORTANT INFORMATION

Newton Community High School CEEB code: 143180

NCAA REQUIREMENTS

Student athletes expecting to participate in athletics in a Division I or Division II college/university in their freshman year of college must meet specific NCAA course requirements while in high school. Students and their parents should consult with the school counselor when selecting high school courses to be sure they are meeting NCAA course requirements. Students must have 16 academic courses, 10 of which must be earned by the student's seventh semester. Seven of the ten courses must be English, Math or Natural/Physical Science. Earn at least a 2.3 GPA on core courses.
A link has been provided for more information regarding the NCAA. www.ncaaclearinghouse.com/

The following courses are NCAA approved core courses.

ENGLISH	English I English II English III Pre-College English IV Speech
MATHEMATICS	Math I Math II Math III Calculus Intro to Statistics Trigonometry
SOCIAL STUDIES	American History Current Events Economics Geography Government Psychology I World History History of World War II
NATURAL/PHYSICAL SCIENCE	Biology I (lab) Biology II (lab) Chemistry I (lab) Chemistry II (lab) Earth Science (lab) Physics (lab)
ADDITIONAL CORE COURSES:	Spanish I Spanish II Spanish III

All ACT and SAT scores must be reported to the NCAA Initial Eligibility Clearinghouse by the testing agency. Test scores that appear on the transcript will not be accepted.

ONLINE TRANSCRIPTS

NCHS uses a web-based company Parchment Exchange (IllinoisCollege Transcript Exchange) for sending transcripts electronically to colleges/universities and NCAA. The following questions and answers will help to inform you as a student and a parent regarding the online process.

What is Parchment Exchange? It is a revolutionary service that automates the ordering, processing, and delivery of student transcripts for colleges, universities, and NCAA Clearinghouse. It is a web-based workflow management tool, and provides consistent, secure transcripts to member institutions.

How does a student register to use Parchment Exchange? The school counselor will meet with the students their junior year and will set up an account. At that time the student will be registered.

How much does it cost? Parchment Exchange has no fee to students and recent graduates. However, when using the system there could be a charge from the institution you are trying to upload to at that time. If this occurs, you will have the option of canceling the request and mailing your transcript through the post office or continuing with your request and paying the online fee.

How does the service work? Our Guidance Department personnel will upload a current transcript for students at the end of their junior year, at the end of the first semester their senior year and at the end of their senior year. The student clicks the "student transcript" link on Parchment Exchange. They will put in their user name (email address they used when they registered) and password. The student will choose where they want to send their transcript(s). These transcript requests are presented electronically to your high school Parchment administrator, who approves the request and uploads the student's transcripts. Parchment processes these student records and delivers official transcripts electronically to the requested college/university or NCAA. The student receives an email confirmation when the transcript is approved.

Are these transcripts official? Yes. Schools participating in Illinois e-Transcript sign the Secondary School Agreement with Parchment legally appointing them as the student's "agent," allowing Parchment Exchange to send official school transcripts on their behalf.

How is my personal information kept safe? Every sending and receiving institution is authenticated by Parchment Exchange, and all transmissions between them are carried over secure channels. Parchment employs the same data security technology that powers today's on-line banking solutions.

How soon after transcripts are ordered are they sent? After a transcript order is placed by the student, the school Parchment administrator must approve the transcript order and electronically send the transcript information to Parchment. This process is usually done within 24 hours of the request. Parchment sends out electronic transcripts immediately upon receipt of transcript information from the school Parchment administrator. It is up to the institution (college, university, NCAA Clearinghouse, etc.) as to how often they download the transcripts from Parchment to their institution.

Are student signatures required? No. While signatures are typically required to release transcripts to students, they are not required for transcripts being sent to colleges in which the student may enroll or scholarship funds that may consider providing aid to the student.

What do I need to order my transcript online? All you need is an email address. We do not recommend using your JCCU1.org email address because this address is only useable while you are a student at NCHS. Parchment Exchange allows you to use their resources post high school.

How do I track my orders to see if they have been received? Log-in to Parchment and select "order status." Here you will see all the transcript requests you have placed along with the status of each. If the order is complete, it will state "order complete." Otherwise the order status will inform you where your request is between approval, upload, and delivery.

DUAL CREDIT COURSES

NOTE: The following courses may be completed for dual credit through Frontier Community College, with the exception of Agricultural Power Mechanics II which is offered through Olney Central College. You must be at junior status to be eligible for dual credit. In addition, students must meet a subscore requirement on the ACT, SAT, Compass, or Accuplacer test before enrolling.

NEWTON COMMUNITY HIGH SCHOOL COURSE NAME	COMMUNITY COLLEGE COURSE NAME	COMMUNITY COLLEGE COURSE NUMBER
Pre-College English IV	Composition I (1st Semester) Composition & Analysis (2nd Semester)	ENG1111 ENG1121
English IV	Communications (1st semester) Technical Writing (2nd semester)	ENG1201 ENG1212
Speech	Fundamentals of Effective Speaking	SPE1101
Calculus & Analytic Geometry I	Calculus I	MTH1171
Introduction to Statistics	Introduction to Statistics	MTH1131
Trigonometry	Trigonometry	MTH1105
Liberal Arts Math	Liberal Arts Math	MTH1103
Chemistry II	Introductory Chemistry	CHM1120
Government	Government of the United States	PLS2101
Economics	Principles of Macroeconomics	ECN2101
Health Occupations Core of Skills	Basic Nurse Assistant Training Program	HEA1203
Creating Entrepreneurial Opportunities (CEO)	Introduction to Entrepreneurship (1st Semester) Entrepreneur Topics & Issues (2nd Semester) Business Portfolio (2nd Semester)	ENT1210 ENT1298 ENT2210
Technical Math	Technical Mathematics	MTH1201
Agricultural Power Mechanics II	Combination Welding I (1st semester) Shielded Metal Arc Welding I (2nd semester)	WEL1260 WEL1215
NOTE: The post-secondary institution will determine which courses will be accepted as transfer credit. Please contact the college's admissions office for additional information. Students are responsible for requesting their Frontier Community College or Olney Central College transcript be sent to their post-secondary institution.		

TRANSFER STUDENTS

Students who transfer to Newton Community High School will need their official transcript from their previous school. Courses will be reviewed and transferred to a NCHS transcript. Certified birth certificate, physical forms, immunization records, standardized testing and Illinois Student Transfer form (if you are transferring from an Illinois school) are also required.

Withdrawal grades will be taken from the previous school and calculated with the grades received at NCHS for the semester, if applicable.

COURSE DESCRIPTIONS AND RIGOR

Course descriptions by department are listed on the following pages. Some courses may have prerequisites, so be sure to read course descriptions carefully. The symbols below signify a specific course level that has been set by the State Board of Education. The board has added components to our local curriculum. In the course descriptions you will see a local course name, course code, and credit and also a federal course name, federal code, federal subject area and rigor.

R - Remedial
G - General
E - Enriched
H - Honors

ENGLISH DEPARTMENT

ENGLISH I

STATE COURSE NAME: ENGLISH/LANGUAGE ARTS I (9TH GRADE)

NCHS Course Code: ENG100A/ENG100B	**State Course Code: 01001A000**
Grade level: 9	**State Subject Area: English/Language Arts**
Possible credits: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course presents traditional literature (short stories, poems, plays, novels, and essays) that students read to make inferences, to understand theme, and to understand how and why individuals and point of view develop and interact over time. Students will take this information and find textual support for their ideas in order to analyze, apply, synthesize, and evaluate this information. Student writing will focus on using technology to create clear, coherent writing for persuasive, narrative, and expository assignments. A small research project will be completed using various sources and technology. Writing should demonstrate a command of the conventions of Standard English grammar and usage, especially in the use of phrases, semicolons, colons, capitalization, punctuation, and spelling. In regards to vocabulary, students will develop strategies in regards to context clues and word patterns to determine meaning. Students will use a variety of specialized sources and/or materials to assist in the building of vocabulary.	English/Language Arts I (9th grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

ENGLISH II

STATE COURSE NAME: ENGLISH/LANGUAGE ARTS II (10TH GRADE)

NCHS Course Code: ENG200A/ENG200B	**State Course Code: 01002A000**
Grade level: 10	**State Subject Area: English/Language Arts**
Possible credits: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is a continuation of English I. The course presents traditional literature (short stories, poems, plays, novels, and essays) that students read to make inferences, to understand theme, and to understand how and why individuals and point of view develop and interact over time. Students will take this information and find textual support for their ideas in order to analyze, apply, synthesize, and evaluate this information. Student writing will focus on using technology to create clear, coherent writing for persuasive, narrative, and expository assignments. A larger research project will be completed using various sources and technology. The study of the MLA style of documentation will be used. Writing should demonstrate a command of the conventions of Standard English grammar and usage, especially in the use of phrases, semicolons, colons, capitalization, punctuation, and spelling. In regards to vocabulary, students will develop strategies in regards to context clues and word patterns to determine meaning. Students will use a variety of specialized sources and/or materials to assist in the building of vocabulary.	English/Language Arts II (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

ENGLISH III

STATE COURSE NAME: ENGLISH/LANGUAGE ARTS III (11th GRADE)

NCHS Course Code: ENG290A/ENG290B	**State Course Code: 01003A000**
Grade level: 11	**State Subject Area: English/Language Arts**
Possible credits: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course presents traditional literature (short stories, poems, plays, novels, and essays) that students read to make inferences, to understand theme, and to understand how and why individuals, plot, and setting develop and interact over time. Students will take this information and find textual support for their ideas in order to analyze, apply, synthesize, and evaluate this information. Student writing will focus on using technology to create clear, coherent writing for formal persuasive assignment that develops claims and counterclaims, as well as using complex sentence structure. A formal research project will be completed using various sources and technology. The study of the MLA system of documentation will be continued. Writing should demonstrate a command of the conventions of Standard English grammar and usage, especially in the use of hyphens, contested or irregular usage, capitalization, punctuation, and spelling. In regards to vocabulary, students will develop strategies in regards to context clues and word patterns to determine meaning. Students will use a variety of specialized sources and/or materials to assist in the building of vocabulary.	English/Language Arts III (11th grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

ENGLISH IV

STATE COURSE NAME: Applied English and Communications (12th Grade)

NCHS Course Code: ENG400A/ENG400B	**State Course Code: 01156A000**
Grade level: 12	**State Subject Area: Applied English and Communications**
Possible credits: 1 (2 semesters)	**Rigor: H**
Prerequisite: Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course presents nonfiction literature (current news articles) that students read to make inferences, to summarize, to define vocabulary, and to present as a speech to the class with a presentation for the audience to follow. Students study grammar on a daily basis to improve spoken and written language. Students engage in a variety of reading and writing tasks for "real-world" applications – reading and following directions, resumes, cover letters, reference list, interview skills, and business letters. A major project will be completed each semester. The first semester project is a career report that uses career interests quizzes, research into a chosen career, and documentation of sources. This report is a three to five page paper that discusses the research found on this career. The second semester project is job shadowing. Students are required to write letters, job shadow at an acceptable business, and prepare a report on this experience to present to the class. In addition students will work on how to fill out various forms, such as taxes, order forms, etc. Second semester students also learn to work in teams effectively, make decisions, and resolve conflicts within a team setting. Persuasion is covered and students create an advertising campaign for a product or service that illustrates their knowledge of persuasive techniques. Students also study grammar on a daily basis to improve spoken and written language.	Applied English and Communications courses teach students communication skills—reading, writing, listening, speaking—concentrating on "real-world" applications. These courses usually emphasize the practical application of communication as a business tool—using technical reports and manuals, business letters, resumes, and applications as examples—rather than emphasize language arts skills as applied to scholarly and literary materials.

PRE-COLLEGE ENGLISH IV

STATE COURSE NAME: ENGLISH/LANGUAGE ARTS IV (12H GRADE)

NCHS Course Code: ENG410A/ENG410B	**State Course Code: 01004A000**
Grade level: 12	**State Subject Area: English/Language Arts**
Possible credits: 1 (2 semesters)	**Rigor: H**
Prerequisite: Complete English III with a C or higher. Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
First Semester This course focuses on writing both informal and formal essays that include narrative, expository, comparison/contrast, process analysis, and persuasion. Students will read model essays to study the structure and techniques used in these types of essays. Student writing will use technology to create and submit clear, coherent writing for both formal and informal essays. Writing should demonstrate a command of the conventions of Standard English grammar and usage. Essays will be submitted twice for grading. Proofreading and editing skills are taught and used during the writing process. Only five to six grades are taken for the entire semester. Second Semester This course focuses on writing a formal research paper and formal literary analysis. Students will read literature (typically a Shakespearian play) as the basis of their literary analysis. The MLA system of documentation will be covered in depth and used for the literary analysis. The formal research paper will use the APA system of documentation. Student writing will use technology to create and submit clear, coherent writing for both papers. Writing should demonstrate a command of the conventions of Standard English grammar and usage. Papers will be written, edited, proofread, and revised in stages. Proofreading and editing skills are taught and used during the writing process. Only three to four grades are taken for the entire semester.	English/Language Arts IV (12th grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

SPEECH

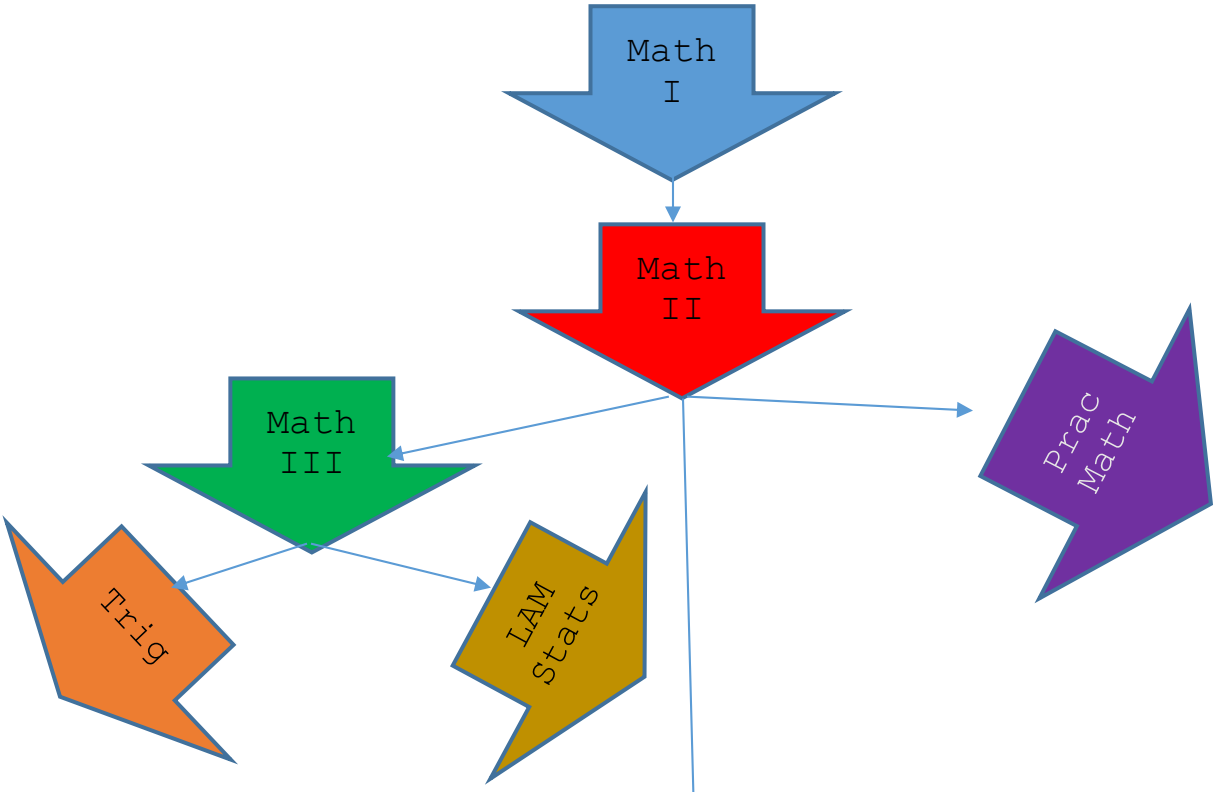
STATE COURSE NAME: PUBLIC SPEAKING

NCHS Course Code: ENG610A or ENG610B	**State Course Code: 01151A000**
Grade level: 11 and 12	**State Subject Area: English/Language Arts**
Possible credit: .5 (1 semester)	**Rigor: H**
Prerequisite: Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	FEDERAL COURSE DESCRIPTION
This course is designed for the beginning speech students. Public speaking is emphasized and students will also study self-concept, interpersonal communication, communication theories, and conflict resolution. Students will develop both research and organizational skills through speech preparation activities. Students will give informational, persuasive, and group presentation speeches during the course of the semester. Drama activities involving oral interpretation, choral reading, pantomime, acting and other aspects of theater arts will be taught. Students will be involved in the production of several types of mass media.	Public Speaking courses enable students, through practice, to develop communication skills that can be used in a variety of speaking situations (such as small and large group discussions, delivery of lectures or speeches in front of audiences, and so on). Course topics may include (but are not limited to) research and organization, writing for verbal delivery, stylistic choices, visual and presentation skills, analysis and critique, and development of self-confidence.

MATH DEPARTMENT

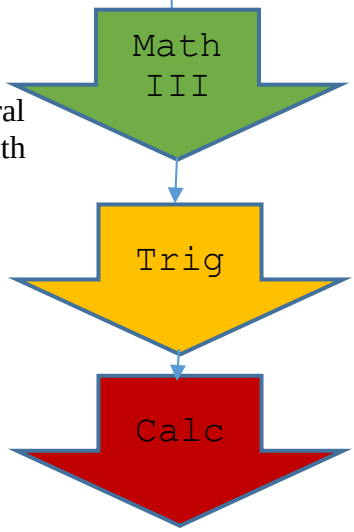
MATH SEQUENCE FOR NCHS

Students are required to complete *three* math courses to graduate from Newton Community High School.



If a student has completed Math I as an 8th grader and meets or has teacher's recommendation, he/she may use the following pathway.

Students on the second track may take Liberal Arts Math and/or Intro to Statistics along with Trigonometry or Calculus.



MATH I

STATE COURSE NAME: INTEGRATED MATH-MULTI-YEAR EQUIVALENT

NCHS Course Code: MAT100A/MAT100B	**State Course Code: 02061A000**
Grade level: 9	**State Subject Area: Mathematics**
Possible credit: 1 (2 semesters)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
In Math I students will write, solve, and graph linear equations, functions, and inequalities. They will also write and solve absolute value equations and graph absolute value functions, solve systems of equations using several different methods, and use properties of exponents. Students will graph quadratic, exponential, and square root functions, analyze data and construct and interpret stem-and-leaf, histograms, dot plots, and box plots. The students will perform transformations of figures using geometry software and apply these transformations to the study of triangle congruence. Students will also prove statements about segments, angles, and triangles.	Integrated Math courses emphasize the teaching of mathematics as problem solving, communication, and reasoning, and emphasize the connections among mathematical topics and between mathematics and other disciplines. The multi-period sequence of Integrated Math replaces the traditional Algebra I, Geometry, Algebra II sequence of courses, and usually covers the following topics during a three or four year sequence: algebra functions, geometry from both a synthetic and an algebraic perspective, trigonometry, statistics and probability, discrete mathematics, the conceptual underpinnings of calculus, and mathematical structure.

MATH II

STATE COURSE NAME: INTEGRATED MATH-MULTI-YEAR EQUIVALENT

NCHS Course Code: MAT200A/MAT200B	**State Course Code: 02061A000**
Grade level: 9-10	**State Subject Area: Mathematics**
Possible credit: 1 (2 semesters)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
In Math II, the students will study properties of quadrilaterals, the relationships within triangles, similarity, right triangles and trigonometric ratios, solve area and volume problems, calculate probability and use various types of data analysis. They will perform operations with polynomials, graph quadratic functions and factor various polynomials. The students will simplify radical and rational expressions and solve radical and rational equations. They will also graph radical and rational functions.	Integrated Math courses emphasize the teaching of mathematics as problem solving, communication, and reasoning, and emphasize the connections among mathematical topics and between mathematics and other disciplines. The multi-period sequence of Integrated Math replaces the traditional Algebra I, Geometry, Algebra II sequence of courses, and usually covers the following topics during a three or four year sequence: algebra functions, geometry from both a synthetic and an algebraic perspective, trigonometry, statistics and probability, discrete mathematics, the conceptual underpinnings of calculus, and mathematical structure.

MATH III

STATE COURSE NAME: INTEGRATED MATH-MULTI-YEAR EQUIVALENT

NCHS Course Code: MAT300A/MAT300B	**State Course Code: 02061A000**
Grade level: 10-11	**State Subject Area: Mathematics**
Possible credit: 1 (2 semesters)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
In Math III, students will solve linear systems and perform matrix operations. They will apply the Remainder Theorem, the Factor theorem, and the Fundamental Theorem of Algebra. They will solve and graph exponential and logarithmic equations, graph and write equations of parabolas, ellipses, circles, and hyperbolas. They will write, use, and analyze series and sequences and find sums of infinite geometric series. Students will use trigonometric ratios, radian measure, and apply the Law of Sines and the Law of Cosines. Students will verify trigonometric identities and solve trigonometric equations. They will find measures of central tendency and dispersion and use the normal distribution. Students will find arc length, surface area, and volume, and complete various geometric constructions using compass and ruler and also using geometry software.	Integrated Math courses emphasize the teaching of mathematics as problem solving, communication, and reasoning, and emphasize the connections among mathematical topics and between mathematics and other disciplines. The multi-period sequence of Integrated Math replaces the traditional Algebra I, Geometry, Algebra II sequence of courses, and usually covers the following topics during a three or four year sequence: algebra functions, geometry from both a synthetic and an algebraic perspective, trigonometry, statistics and probability, discrete mathematics, the conceptual underpinnings of calculus, and mathematical structure.

PRACTICAL MATH

STATE COURSE NAME: BUSINESS MATH

NCHS Course Code: MAT290A/MAT290B	**State Course Code: 02154A000**
Grade level: 11-12	**State Subject Area: Mathematics**
Possible credit: 1 (2 semesters) or .5 (1 semester combined with Technical Math)	**Rigor: G**
Prerequisite: Math II	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This class is designed to improve basic math skills and prepare students to use these skills in life application, review of arithmetic involving whole, mixed, decimal, fractions, and signed numbers. The student will also work with problem-solving, money management skills and various consumer topics.	Business Math courses reinforce general math skills, emphasize speed and accuracy in computations, and use these skills in a variety of business applications. Business Math courses reinforce general math topics (e.g., arithmetic, measurement, statistics, ratio and proportion, exponents, formulas, and simple equations) by applying these skills to business problems and situations; applications might include wages, hourly rates, payroll deductions, sales, receipts, accounts payable and receivable, financial reports, discounts, and interest.

TECHNICAL MATH

STATE COURSE NAME: DISCRETE MATHEMATICS

NCHS Course Code: MAT295	**State Course Code: 02153A000**
Grade level: 11-12	**State Subject Area: Mathematics**
Possible credit: .5 (1 semester)	**Rigor: H**
Prerequisite: Complete 1st semester of Practical Math with a C or higher. Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
Technical Math courses extend students' proficiency in mathematics, and often apply these skills to technical and/or industrial situations and problems. Technical Math topics may include but are not limited to rational numbers, systems of measurements, tolerances, numerical languages, geometry, algebra, statistics, and using tables, graphs, charts, and other data displays. Technology is integrated as appropriate.	Technical Math courses extend students' proficiency in mathematics, and often apply these skills to technical and/or industrial situations and problems. Technical Math topics may include but are not limited to rational numbers, systems of measurements, tolerances, numerical languages, geometry, algebra, statistics, and using tables, graphs, charts, and other data displays. Technology is integrated as appropriate.

LIBERAL ARTS MATH

STATE COURSE NAME: DISCRETE MATHEMATICS

NCHS Course Code: MAT 390A	**State Course Code: 02102A000**
Grade level: 11-12	**State Subject Area: Mathematics**
Possible credit: .5 (1 semester)	**Rigor: H**
Prerequisite: Complete Math III with a C or higher. Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This dual credit course focuses on mathematical reasoning and problem-solving strategies with applications. Topics will be chosen from the following list: mathematical modeling, logic/set theory, geometry applications, finance, systems of numeration and linear programming.	Discrete Mathematics courses include the study of topics such as number theory, discrete probability, set theory, symbolic logic, Boolean algebra, combinatorics, recursion, basic algebraic structures and graph theory.

INTRODUCTION TO STATISTICS

STATE COURSE NAME: INFERENTIAL PROBABILITY AND STATISTICS

NCHS Course Code: MAT395B	**State Course Code: 02202A000**
Grade level: 11-12	**State Subject Area: Mathematics**
Possible credit: .5 (1 semester)	**Rigor: H**
Prerequisite: Complete Math III with a C or higher. Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This dual credit course focuses on the basic concepts, techniques, and applications of statistics. Topics include: organization, presentation, and description of data, percentiles, measures of central tendency and measures of dispersion, standard normal distribution, correlation and regression, probability, hypothesis testing and confidence intervals, sampling and sampling distributions and use of graphing calculator.	Probability and Statistics courses focus on descriptive statistics, with an introduction to inferential statistics. Topics typically include event probability, normal probability distribution, collection and description of data, frequency tables and graphs, measures of central tendency and variability, random variables, and random sampling. Course topics may also include covariance and correlation, central limit theorem, confidence intervals, and hypothesis testing.

TRIGONOMETRY-ANALYTIC GEOMETRY-PRECALCULUS

STATE COURSE NAME: TRIGONOMETRY/ALGEBRA

NCHS Course Code: MAT410A/MAT410B	**State Course Code: 02106A000**
Grade level: 11-12	**State Subject Area: Mathematics**
Possible credit: 1 (2 semesters)	**Rigor: H**
Prerequisite: Complete Math I, Math II, and Math III with a C or higher. Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed to prepare a student to succeed in entry level college math classes. It offers a review of advanced algebra along with a rigorous study of trigonometry, analytic geometry, and pre-calculus mathematics. The Math Department suggests that the student have a graphing calculator (TI83 Plus, TI83 Plus Silver, TI84 Plus, or a TI84 Plus Silver). The student will work with functions, operations, graphing, transformations, trigonometry-vectors, basic differential calculus, limits, graphing, max/min problems, analytic geometry, conics, probability combinatorics, problem solving, sequences, series, complex numbers- polar form and use of graphing calculators.	Trigonometry/Algebra courses combine trigonometry and advanced algebra topics, and are usually intended for students who have attained Algebra I and Geometry objectives. Topics typically include right trigonometric and circular functions, inverses, and graphs; trigonometric identities and equations; solutions of right and oblique triangles; complex numbers; numerical tables; field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; and properties of higher degree equations.

CALCULUS AND ANALYTIC GEOMETRY

STATE COURSE NAME: TRIGONOMETRY/ALGEBRA

NCHS Course Code: MAT510A/MAT510B	**State Course Code: 02121A000**
Grade level: 12	**State Subject Area: Mathematics**
Possible credit: 1 (2 semesters)	**Rigor: H**
Prerequisite: Complete Trigonometry with a C or higher. Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This dual credit (all year) course introduces basic differential and integral calculus with applications. The math department suggests that the student have a graphing calculator (TI83 Plus, TI83 Plus Silver, TI84 Plus, or a TI84 Plus Silver). Topics in this course include: limits and their properties, differentiation, applications of differentiation, integration, applications of integration and use of graphing calculators.	Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

SCIENCE DEPARTMENT

EARTH SCIENCE

STATE COURSE NAME: EARTH SCIENCE

NCHS Course Code: SCI100A/SCI100B	**State Course Code: 03001A000**
Grade level: 9-12	**State Subject Area: Life and Physical Sciences**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course incorporates lecture, class discussion, group activities and lab work as instructional methods. The course studies the following topics: foundations of earth science, air, weather, climate, rocks and minerals, exploring space, weathering of rock and soil, water on earth, plate tectonics, earthquakes and volcanoes. There will be one unit on physical science.	Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

BIOLOGY I

STATE COURSE NAME: BIOLOGY

NCHS Course Code: SCI200A/SCI200B	**State Course Code: 03051A000**
Grade level: 9-12	**State Subject Area: Life and Physical Sciences**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course has lecture, discussion, group activities and lab investigations as the course instructional methods. This course consists of: ecology, basic chemistry for living organisms, cell study, cell cycle, energy in a cell, genetics, human genetics, genetic technology, theory of evolution and overview of the kingdoms of living organisms.	Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

BIOLOGY II

STATE COURSE NAME: BIOLOGY II

NCHS Course Code: SCI290A/SCI290B	**State Course Code: 03101A000**
Grade level: 10-12	**State Subject Area: Life and Physical Sciences**
Possible credit: 1 (2 semesters)	**Rigor: E**
Prerequisite: Complete Biology I with a C or higher or teacher recommendation.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course has lecture, discussion, group activities and lab investigations as the course instructional methods. This course consists of: ecology, basic chemistry for living organisms, cell study, cell cycle, energy in a cell, genetics, human genetics, genetic technology, theory of evolution and overview of the kingdoms of living organisms.	Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy

CHEMISTRY I

STATE COURSE NAME: CHEMISTRY

NCHS Course Code: SCI300A/SCI300B	**State Course Code: 03101A000**
Grade level: 10-12	**State Subject Area: Life and Physical Sciences**
Possible credit: 1 (2 semesters)	**Rigor: E**
Prerequisite: Complete Math I with a C or higher.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This is a college preparatory course. It consists of lecture, discussion, and labs on the following topics: matter and energy, elements, atoms, and ions, chemical bonding, chemical reactions and equations, states of matter, solutions, acids and bases, equilibrium reactions, and fields of chemistry.	Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; and atomic structure. Chemical formulas and equations and nuclear reactions are also studied.

CHEMISTRY II

STATE COURSE NAME: CHEMISTRY-ADVANCED STUDIES

NCHS Course Code: SCI400A/SCI400B	**State Course Code: 03102A000**
Grade level: 11-12	**State Subject Area: Life and Physical Sciences**
Possible credit: 1 (2 semesters)	**Rigor: H**
Prerequisite: Chemistry I with a C or higher. Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This is a college preparatory course. It is an in-depth continuation of Chemistry I. It consists of lecture, discussion, and labs on the following topics: gases, bonding concepts, chemical equilibrium, chemical kinetics, stoichiometry, bonding concepts, thermochemistry, chemical equilibrium, organic chemistry, and chemical kinetics	Usually taken after a comprehensive initial study of chemistry, Chemistry—Advanced Studies courses cover chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry.

PHYSICS

STATE COURSE NAME: PHYSICS

NCHS Course Code: SCI500A/SCI500B	**State Course Code: 03151A000**
Grade level: 11-12	**State Subject Area: Life and Physical Sciences**
Possible credit: 1 (2 semesters)	**Rigor: E**
Prerequisite: Complete Chemistry I with a C or higher.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This is a college preparatory course. It consists of lecture, discussion, and labs on the following topics: mechanics, thermodynamics, vibrations and wave motion, electricity and magnetism, and light and optics.	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.

AGRICULTURAL SCIENCE

STATE COURSE NAME: AGRICULTURE AND NATURAL RESOURCES-COMPREHENSIVE

NCHS Course Code: AG300A/AG300B	**State Course Code: 18003A001**
Grade level: 10-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is a general overview of the scientific concepts of agriculture and our environment. Through classroom discovery and laboratory examples students will develop a generalized understanding of science in agriculture. Labs will be conducted in soils, plants and various animal concepts. This course qualifies for science credit at NCHS. **FALL SEMESTER CONSISTS OF:** Identifying careers in agriculture and biotechnology, animal terminology and classification, soil science and fertility, understanding the world food and fiber chain, and ethics in livestock production (animal rights) **SPRING SEMESTER CONSISTS OF:** Beef, swine, sheep, and dairy production and management, plant growth and reproduction, animal reproduction and nutrition, food science and technology, recognizing the role of research and technology in agriculture, and understanding the role of biotechnology in agriculture.	Agriculture and Natural Resources—Comprehensive courses cover a wide range of topics concerning agriculture and natural resources, including plant and animal science, production, and processing; environmental science and conservation; ecology; agricultural mechanics; agricultural construction; business operations and management; and the careers available in the agricultural/natural resources industry. They may also include topics such as chemical and soil science, forestry, agricultural marketing, and veterinary science.

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE (BSAA)

STATE COURSE NAME: APPLICATIONS IN AGRICULTURE-PLANTS (SEMESTER 1)
APPLICATIONS IN AGRICULTURE-ANIMALS (SEMESTER 2)

NCHS Course Code: AG700A/AG700B	**State Course Code: 18051A002**
Grade level: 11-12	**State Subject Area: Agriculture and natural resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
Prerequisite: Biology I	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is a general overview of the scientific concepts of agriculture and our environment. Through classroom discovery and laboratory examples students will develop a generalized understanding of science in agriculture. Labs will be conducted in soils, plants and various animal concepts. This course qualifies for science credit at NCHS. **FALL SEMESTER CONSISTS OF:** Identifying careers in agriculture and biotechnology, animal terminology and classification, soil science and fertility, understanding the world food and fiber chain, and ethics in livestock production (animal rights) **SPRING SEMESTER CONSISTS OF:** Beef, swine, sheep, and dairy production and management, plant growth and reproduction, animal reproduction and nutrition, food science and technology, recognizing the role of research and technology in agriculture, and understanding the role of biotechnology in agriculture.	Agriculture and Natural Resources—Comprehensive courses cover a wide range of topics concerning agriculture and natural resources, including plant and animal science, production, and processing; environmental science and conservation; ecology; agricultural mechanics; agricultural construction; business operations and management; and the careers available in the agricultural/natural resources industry. They may also include topics such as chemical and soil science, forestry, agricultural marketing, and veterinary science.

NOTE: Agricultural Science and Biological Science Applications in Agriculture (BSAA) qualify for NCHS science credit. Colleges determine if these classes qualify as science credit for admissions purposes on an induvial basis.

SOCIAL STUDIES DEPARTMENT

GEOGRAPHY

STATE COURSE NAME: GEOGRAPHY

NCHS Course Code: SOC100A or SOC100B	**State Course Code: 04001A000**
Grade level: 9-12	**State Subject Area: Social Sciences and History**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will provide students with the opportunity to use maps to acquire, process, and report information, look at the earth's landforms and resources, and study the world's climates. The study of physical and cultural geography of the United States, Canada, South America, Europe, the Middle East, North Africa, and the Far East.	World Geography courses provide students with an overview of world geography, but may vary widely in the topics they cover. Topics typically include the physical environment; the political landscape; the relationship between people and the land; economic production and development; and the movement of people, goods, and ideas.

WORLD HISTORY

STATE COURSE NAME: WORLD HISTORY

NCHS Course Code: SOC250A and/or SOC250B	**State Course Code: 04099A000**
Grade level: 9-12	**State Subject Area: Social Sciences and History**
Possible credit: .5 (1 semester) or 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
The student will learn of human beginnings and the rise of kingdoms and empires (early humans, Egyptians, Fertile Crescent, and Middle East kingdoms). The world's great and ancient civilizations (Greece, Rome, Christianity, India, China, Byzantium, Islamic, and Pre-Columbian Americas) and emergence of the modern world (Renaissance and Reformation, explorations, Asian Empires, Great European kings). Students will explore the enlightenment and the Age of Revolution (scientific, English and American, and the French Revolutions), industry, economic systems, nationalism, world conflict (Imperialism, WWI, Soviet Union, WWII), post WWII (War in Asia and Europe, Vietnam, and the Korean War), and contemporary world (Middle East problems, Vietnam and southeast Asia, and Latin America).	Other World History courses.

HISTORY OF WORLD WAR II

STATE COURSE NAME: PARTICULAR TOPICS IN WORLD HISTORY

NCHS Course Code: SOC240A or SOC240B	**State Course Code: 04065AA000**
Grade level: 9-12	**State Subject Area: Social Sciences and History**
Possible credit: .5 (1 semester)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
The student will have the opportunity to examine the history of World War II with emphasis placed on American participation, examine the causes and origins of World War II, and study the lives of Americans serving and those on the home-front. They will read primary source material from the era, examine and study artifacts from World War II, and learn how the outcomes of the war partially created modern society. Students will be required to write short responses and longer papers on World War II topics. They will also watch films and documentaries that highlight important aspects of the war.	These courses examine particular topics in world history other than those already described.

AMERICAN HISTORY

STATE COURSE NAME: U.S. HISTORY-COMPREHENSIVE

NCHS Course Code: SOC300A/SOC300B	**State Course Code: 03101A000**
Grade level: 11-12	**State Subject Area: Social Sciences and History**
Possible credit: 1 (2 Semester)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course consists of lecture, film discussion and primary/secondary source analysis to be used throughout the year. The student will study Colonial America, Revolutionary War, the creating of a constitutional government, Manifest Destiny, and the splitting of the Union over slavery. The study of the Civil War and reconstruction, setting of the wild frontier, Imperialism, World War I, the Roaring Twenties and the Great Depression, the Cold War, World War II, the Old War, civil rights, and the Vietnam War will also be explored.	U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

CURRENT EVENTS

STATE COURSE NAME: UNITED STATES AND WORLD AFFAIRS

NCHS Course Code: SOC400A/SOC400B	**State Course Code: 04156A000**
Grade level: 10-12	**State Subject Area: Social Sciences and History**
Possible credit: 1 (2 semester) or .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course has a group discussion of history in the making, daily current events (news, sports, and weather), a weekly paper of a current event, and Time Magazine articles are used for discussion issues. Students will do research and have weekly quizzes. Students will have the opportunity to discuss and form opinions about what is going on in the world around them.	United States and World Affairs courses provide a study of global interrelationships. Topics covered may include geographic, political, economic, and social issues of a particular country or region, with an emphasis on how these issues influence (or are influenced by) the way in which the United States relates to other countries in an interdependent world context.

CONSTITUTIONAL HISTORY

STATE COURSE NAME: LAW STUDIES

NCHS Course Code: SOC450A or SOC450B	**State Course Code: 04162A000**
Grade level: 10-12	**State Subject Area: Social Sciences and History**
Possible credit: .5 (1 semester)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course involves a detailed analysis and discussion of major Supreme Court rulings and how they have shaped American history. This course will follow both a thematic and chronological framework. Students will examine various Constitutional issues (gun rights, rights of the accused, freedom of speech, religion and the state, etc.) and chart their course in American history through major Supreme Court decisions. There will be some lecture presentations during portions of the semester for background information, but the balance of the course will be conducted as a seminar in which all students will be required to participate. There will be both weekly and daily assignments. Each student will also research and write an article/paper on a Supreme Court case of interest to the individual student. This paper will be their final exam, and will also include an outline, rough draft, and a final draft.	Law Studies courses examine the history and philosophy of law as part of U.S. society and include the study of the major substantive areas of both criminal and civil law, such as constitutional rights, torts, contracts, property, criminal law, family law, and equity. Although these courses emphasize the study of law, they may also cover the workings of the legal system.

PSYCHOLOGY I

STATE COURSE NAME: PARTICULAR TOPICS IN PSYCHOLOGY

NCHS Course Code: SOC500A or SOC500B	**State Course Code: 04255A000**
Grade level: 11-12	**State Subject Area: Social Sciences and History**
Possible credit: .5 (1 semester)	**Rigor: H**
Prerequisite: Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed to help students gain a better understanding of human behavior. By learning about the social and biological explanations for human behavior, students will gain insight as to why individuals think, feel, and react to certain stimuli. The core focus of the class includes learning about cognitive, social, physical, and emotional development throughout the life span. Major emphases will also be placed on the various approaches to psychology, brain anatomy and physiology, altered states of consciousness, dream analysis, psychological testing, and psychological disorders.	These courses examine a particular topic in psychology, such as human growth and development or personality, rather than provide a more comprehensive overview of the field.

ECONOMICS

STATE COURSE NAME: COMPARATIVE ECONOMICS

NCHS Course Code: SOC600B	**State Course Code: 04201000**
Grade level: 12	**State Subject Area: Social Sciences and History**
Possible credit: .5 (1 semester)	**Rigor: H**
Prerequisite: Student must meet a benchmark on a placement test to be enrolled in a dual credit course. If a student does not qualify for dual credit the student will take the course for high school credit only or Resource Management.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course gives an introduction to the nature of the field of economics and how American consumers should apply these principles to improve their standard of living. The basic economics concepts (what is economics, economic systems, decision making as a consumer, and business organization) will be studied. Microeconomics (supply and demand, price systems at work, competition and role of the government) and macroeconomics (employment, labor, and wages, tax system, government spending the national debt, money management, banking and the Federal Reserve System, and the stock market) will be covered. National policies (measuring the nation's income and output, economic growth and business cycles, unemployment, inflation, and poverty) and international and global economics (international trade, capitalism and communism, developing countries, and global challenges) will also be explored.	Comparative Economics courses offer students an opportunity to study different economies and economic systems, including an examination of various approaches to problems in micro- and macroeconomics.

GOVERNMENT

STATE COURSE NAME: CIVICS

NCHS Course Code: SOC700A	**State Course Code: 04161A000**
Grade level: 12	**State Subject Area: Social Sciences and History**
Possible credit: .5 (1 semester)	**Rigor: H**
Prequisite: Student must meet a benchmark on a placement test to be enrolled in a dual credit course. If a student does not qualify for dual credit the student will take the course for high school credit only.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course introduces the ways in which federal, state, and local government functions and stresses the role of the individual in the democratic process. Topics include: history of American government, American presidents, states and capitals, and voting. Group work, class discussions, and lecture will be required. Guest speakers will also provide insight into the processes of government class that is not dual credit.	Civics courses examine the general structure and functions of American systems of government, the roles and responsibilities of citizens to participate in the political process, and the relationship of the individual to the law and legal system. These courses do not typically delve into the same degree of detail on constitutional principles or the role of political parties and interest groups as do comprehensive courses in U.S. Government.

ART DEPARTMENT

NOTE: The students will be required to purchase their own sketchbooks.

ART I

STATE COURSE NAME: CREATIVE ART-COMPREHENSIVE

NCHS Course Code: ART100A/ART100B	**State Course Code: 05154A000**
Grade level: 9-12	**State Subject Area: Fine and Performing Arts**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is an introductory course in the study of the elements and principles of design through media exploration. Students will create a variety of artwork with pencils, oil pastels, chalk pastels, colored pencils, charcoal, acrylic paint, watercolor paint, clay, paper, linoleum, wood, etc. Students will gain knowledge of the methods and techniques required to create drawings, paintings, prints, collages, sculptures, and ceramics. Art I will offer an in-depth opportunity to develop creative problem solving skills and encourage personal expression.	Creative Art—Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

ART II

STATE COURSE NAME: CREATIVE ART-COMPREHENSIVE

NCHS Course Code: ART200A/ART200B	**State Course Code: 05154A000**
Grade level: 10-12	**State Subject Area: Fine and Performing Arts**
Possible credit: 1 (2 semesters)	**Rigor: G**
Prerequisite: Art I	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will focus on further developing the student's problem solving and creative thinking skills. Skills in drawing, painting and design will be developed, with a wide range of tools, materials and techniques. Students will learn how to identify and evaluate different styles of art and add to their general knowledge about art elements and principles.	Creative Art—Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

ART III

STATE COURSE NAME: VISUAL ARTS-INDEPENDENT STUDY

NCHS Course Code: ART300A/ART300B	**State Course Code: 05154A000**
Grade level: 11-12	**State Subject Area: Fine and Performing Arts**
Possible credit: 1 (2 semesters)	**Rigor: E**
Prerequisite: Art I and II	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will focus on further developing the student's problem solving and creative thinking skills. Skills in drawing, painting and design will be developed, with a wide range of tools, materials and techniques. Students will learn how to identify and evaluate different styles of art and add to their general knowledge about art elements and principles.	Visual Art—Independent Study courses, often conducted with instructors or professional artists as mentors, enable students to explore a particular art form or topic. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular form or style, to explore a topic in greater detail, or to develop more advanced skills.

ART IV

STATE COURSE NAME: ART PROTFOLIO

NCHS Course Code: ART500A/ART500B	**State Course Code: 05170A000**
Grade level: 12	**State Subject Area: Fine and Performing Arts**
Possible credit: 1 (2 semesters)	**Rigor: E**
Prequisites: Art I, II, and III	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed for students serious about art, those who may be considering art school after graduation, or those who simply enjoy the art experience. Students will use skills developed in Art I, Art II, and Art III as a foundation for success in Art IV. Students will continue to explore various visual art forms and techniques through the elements and principles of art and design. Students will continue to build and apply their skills and knowledge through a variety of media that will help develop and shape their visual arts foundational skills. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. This course offers students the opportunity to create a professional body of work that reflects their personal style and talent. This collection can be used to meet college admission portfolio requirements, and students will also be encouraged to display their work in the community. Throughout the year, students will discuss and explore career opportunities in the art world.	Art Portfolio courses offer students the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly.

FOREIGN LANGUAGE DEPARTMENT

SPANISH I STATE COURSE NAME: SPANISH I	
NCHS Course Code: SPA100A/SPA100B	**State Course Code: 06101A000**
Grade level: 9-12	**State Subject Area: Foreign Language and Literature**
Possible credit: 1 (2 semesters)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will develop the language skills: listening, understanding, speaking, reading, and writing. Students will study the present tense and its grammar structure. Students will recognize basic language patterns and respond appropriately to simple commands, follow directions, read simple passages, and infer meaning. Students will produce the language using proper pronunciation, intonation, inflection, and they will interact in oral and written contexts of the Spanish language including communication within and beyond the classroom setting. Class will be conducted in 90% Spanish by the end of the year.	Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the arts, literature, customs, and history of Spanish-speaking people.

SPANISH II STATE COURSE NAME: SPANISH II	
NCHS Course Code: SPA200A/SPA200B	**State Course Code: 06102A000**
Grade level: 10-12	**State Subject Area: Foreign Language and Literature**
Possible credit: 1 (2 semesters)	**Rigor: E**
Prerequisite: Complete Spanish I with a C or higher.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will continue to develop the student's ability to listen to, understand, speak, read, and write the Spanish language. Students will gain a deeper understanding of the Spanish language by presenting information orally and/or in writing, and implementing grammar concepts. This course will develop an understanding of how customs and traditions are developed. Students will comprehend illustrated stories, audio-visual programs, and websites. Students will be able to communicate in the present tense as well as to be able to discuss things in the past tense. Class will be conducted mainly in Spanish.	Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

SPANISH III

STATE COURSE NAME: SPANISH III

NCHS Course Code: SPA300A/SPA300B	**State Course Code: 06103A000**
Grade level: 11-12	**State Subject Area: Foreign Language and Literature**
Possible credit: 1 (2 semesters)	**Rigor: H**
Prerequisite: Complete Spanish I and II with a C or higher.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will continue to develop skills in listening, understanding, speaking, reading and writing the Spanish language. Students will develop an appreciation of the art and literature of the Hispanic culture, recognizing major artists and writers. They will continue vocabulary and grammar study through short stories and literature. Students will further study the history and geography of Hispanic countries and gain an appreciation for the global trends that are among different cultures and an acceptance of differences in people and customs of different cultures. Class will be conducted in Spanish.	Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

AGRICULTURAL DEPARTMENT

INTRODUCTION TO AGRICULTURAL INDUSTRY

STATE COURSE NAME: Introduction to Agriculture and Natural Resources

NCHS Course Code: AG 100A/AG100B	**State Course Code: 18001A001**
Grade level: 9-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This orientation course provides an opportunity for students to learn how the agricultural industry is organized, and the influence of agriculture on the economy at the state, national, and international levels. Basic concepts in animal science, plant science, natural resources, agribusiness management, biotechnology, leadership, and job opportunities in agriculture will be presented. Students will be introduced to the FFA and Supervised Agricultural Experience Programs (SAE), as these are integral components of this course. Many hands-on lab activities will be conducted throughout the course. **FALL SEMESTER CONSISTS OF:** The introduction and history of the food, fiber, and natural resources system, FFA organization, parliamentary procedure (conducting a meeting), agricultural communications, dairy science, and Supervised Agricultural Experience Programs. (SAE). **SPRING SEMESTER CONSISTS OF:** Students will explore laboratory safety (shop and farm safety), introduction to agricultural mechanics (build carpentry project), plant science, business management, animal science (beef, swine, and sheep….), and agricultural math applications.	This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL BUSINESS MANAGEMENT

STATE COURSE NAME: Agricultural Business Management

NCHS Course Code: AG200A/AG200B	State Course Code: 18201A001
Grade level: 10-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will emphasize job skills involved with various components of the agricultural industry. Concepts of surveying, electricity, carpentry, and concrete will be introduced. We will also investigate business organization, agricultural sales, business management and financing. Many hands-on lab activities will be conducted throughout the course. **FALL SEMESTER WILL CONSIST OF:** Identifying careers in agriculture, gaining employment (resume, interviews, job applications…..), forestry applications, surveying and land description, concepts of agricultural business management, applying mathematical skills in agriculture, and developing record keeping skills. **SECOND SEMESTER WILL CONSIST OF:** Developing safe work habits, hand and power tool identification, designing, building and maintaining agriculture structures, identifying basic principles of electricity, and advanced business management.	This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL SCIENCE

STATE COURSE NAME: Agriculture and Natural Resources-Comprehensive

NCHS Course Code: AG300A/AG300B	State Course Code: 18003A001
Grade level: 10-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is a general overview of the scientific concepts of agriculture and our environment. Through classroom discovery and laboratory examples students will develop a generalized understanding of science in agriculture. Labs will be conducted in soils, plants and various animal concepts. This course qualifies for science credit at NCHS. **FALL SEMESTER CONSISTS OF:** Identifying careers in agriculture and biotechnology, animal terminology and classification, soil science and fertility, understanding the world food and fiber chain, and ethics in livestock production (animal rights) **SPRING SEMESTER CONSISTS OF:** Beef, swine, sheep, and dairy production and management, plant growth and reproduction, animal reproduction and nutrition, food science and technology, recognizing the role of research and technology in agriculture, and understanding the role of biotechnology in agriculture.	Agriculture and Natural Resources—Comprehensive courses cover a wide range of topics concerning agriculture and natural resources, including plant and animal science, production, and processing; environmental science and conservation; ecology; agricultural mechanics; agricultural construction; business operations and management; and the careers available in the agricultural/natural resources industry. They may also include topics such as chemical and soil science, forestry, agricultural marketing, and veterinary science.

AGRICULTURAL MECHANICS

STATE COURSE NAME: Basic Agricultural Mechanics

NCHS Course Code: AG400A/AG400B	**State Course Code: 18401A001**
Grade level: 10-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
First semester This semester is the introduction of welding designed to show the basic skills needed to repair, fix, and build at home and shop projects which includes: metallurgy (study of metals), oxygen and acetylene cutting and welding, arc welding (using E6011-E6013-E7014), shop safety and management, and welding (students will be welding during the second quarter). **Second semester** This semester will be an introduction to small engines. The course gives the students the understanding and operation of an internal combustion engine which includes: history and importance of engines, strokes and cycles, part identification, and system operations (compression, ignition, carburetor, cooling, lubrication, exhaust), maintenance and safety. One half of the class time will be spent in shop work.	In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL POWER MECHANICS I

STATE COURSE NAME: Agriculture Mechanics and Technology

NCHS Course Code: A500A/AG500B	**State Course Code: 18402A001**
Grade level: 11-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
Prerequisite: Agricultural Mechanics with a C or higher	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed to give instruction on the following units: metal inert gas (MIG) welding, plasma ARC cutting, introduction to tap and die exercises, combines, diesel engines, hydraulics, bronze welding, electrode types, ARC welding advancement (E6010-E7018-E7024), cooling systems, rotary engines, shop safety, and management. **NOTE:** During the first semester and the first half of the second semester students will be spending time in the shop. The second half of the second semester students will spend time building a project of their choice. They must provide their own materials and project plans.	Agriculture Mechanics and Equipment courses provide students with the engineering and power technology principles, skills, and knowledge that are specifically applicable to the agricultural industry. Typical topics include the operation, maintenance, and repair of power, electrical, hydraulic, and mechanical systems.

AGRICULTURAL POWER MECHANICS II

STATE COURSE NAME: Agriculture Metal & Fabrication

NCHS Course Code: AG600A/AG600B	**State Course Code: 18401A002**
Grade level: 12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: H**
Prerequisite: Agricultural Mechanics and Agricultural Power Mechanics I with a C or higher	**Dual Credit: Olney Central College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed to advance those students who desire to become more mechanical in nature which includes: plumbing (household), farm machinery management, power trains, battery, lubrication, farm tires, spot-welding, plastic welding, tap and die exercises, shop and safety management, and advancement in MIG, plasma, oxygen-acetylene and ARC welding (New electrodes E6012, Hobar 600, a hard-surfacing electrode, Jetweld 110, Aluminum ARC) **NOTE:** During the first semester and the first half of the second semester students will be spending time in the shop. The second half of the second semester students will spend time building a project of their choice. They must provide their own materials and project plans	This comprehensive machinery service course concentrates on the following areas: using service manuals, electrical applications for agricultural equipment, and fundamentals of multi-cylinder engines, reconditioning and repairing agricultural equipment, assembling and adjusting agricultural equipment, organization and management of agricultural machinery dealerships, human relations, and sales techniques. Careers such as agricultural equipment salesperson, mechanic, parts manager, sales manager, service technician, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

BIOLOGICAL SCIENCE APPLICATIONS IN AGRICULTURE (BSAA)

STATE COURSE NAME:

Semester 1: Biological Science Applications in Agriculture-Plant
Semester 2: Biological Science Applications in Agriculture-Animals

NCHS Course Code: AG700A/AG700B	**State Course Code: 18051A002**
Grade level: 11-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
Prerequisite: Biology I	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed to reinforce and extend students' understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of animal and plant agriculture and biological science concepts by participating in laboratory exercises and experiments. This is an upper level science course that will enhance students' awareness of science concepts in agriculture through conducting lab experiments. This course counts as a science credit for NCHS. Individual universities determine whether this course satisfies university admission requirements. Students will explore scientific investigation of agriculture, agriculture and the environment, animal and plant genetics and biotechnology, growth and development of animals, managing plant growth, animal and plant reproduction, and processing animal products.	**FIRST SEMESTER** This course is designed to reinforce and extend students understanding of science by associating basic scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth – germination, plant sensory mechanisms, enzyme action, absorption, and managing plant growth – photosynthesis, respiration, translocation, metabolism, and growth regulation. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts. **SECOND SEMESTER** This course is designed to reinforce and extend students understanding of science by associating scientific principles and concepts with relevant applications in agriculture. Students will examine major phases of animal agriculture and specific biological science concepts that govern management decisions in the animal industry. Topics of study are in the areas of growth and development of animals – embryology, ethology, nutrition, immunity systems, and processing animal products – preservation, fermentation, and pasteurization. The course will be valuable preparation for further education and will increase the relevance of science through the applied setting of agriculture by enhancing literacy in science and the scientific process. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL LEADERSHIP AND COMMUNICATIONS

STATE COURSE NAME: AGRICULTURAL COMMUNICATIONS

NCHS Course Code: AG800A/AG800B	**State Course Code: 18203A002**
Grade level: 11-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
Students will analyze current agricultural issues, determine how they affect people on all sides of the issue and enhance their written and oral communication skills by presenting their views and opinions to the class through debates, speeches and interviews in order to be effective leaders in today's society. Students will gain the knowledge and leadership experiences to help them to become successful in life and in the workplace; thus, enhancing their potential for leadership development, personal growth, and career success. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.	Students will analyze current agricultural issues and determine how they affect people on all sides of the issues. The students then learn and enhance their written and oral communication skills by presenting their views and opinions to the class. Students learn how to arrange and present debates, speeches, and interviews to be effective leaders in today's society. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

AGRICULTURAL CONSTRUCTION AND TECHNOLOGY

STATE COURSE NAME: AGRICULTURAL CONSTRUCTION AND TECHNOLGOY

NCHS Course Code: AG900A/AG900B	**State Course Code: 18403A001**
Grade level: 11-12	**State Subject Area: Agriculture and Natural Resources**
Possible credit: 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This advanced course focuses on the knowledge, hands-on skills, and workplace skills applicable to construction in the agricultural industry. Major units of instruction include: personal safety, hand tools, power tools, blueprint reading, surveying construction skills in carpentry, plumbing, electricity, concrete, block laying, drywall and painting. Careers such as agricultural engineers, carpenter, plumber, electrician, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.	This advanced course focuses on the knowledge, hands-on skills, and work place skills applicable to construction in the agricultural industry. Major units of instruction include: personal safety, hand tools, power tools, blue print reading, surveying, construction skills in carpentry, plumbing, electricity, concrete, block laying, drywall and painting. Careers such as agricultural engineers, carpenter, plumber, electrician, concrete and block layers, finishers, safety specialists, and other related occupations will be examined. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

BUSINESS DEPARTMENT

INTRO TO BUSINESS AND ENTREPRENEURSHIP

STATE COURSE NAME: Business and Technology Concepts

NCHS Course Code: BUS125A/BUS125B	**State Course Code: 12001A001**
Grade level: 9-11	**State Subject Area: Business and Marketing**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This orientation-level course will provide an overview of all aspects of business marketing and management (general business). This course includes: concepts and skills of operating a business, forms of business ownership, finance, management, administration, production, career fields, using the computer, communication skills, business ethics, insurance, budgeting, personal finances, and marketing. This course will also introduce students to the world of entrepreneurship. This will be offered 2018-2019 school year.	This orientation-level course will provide an overview of all aspects of business marketing and management, including the concepts, functions, and skills required for meeting the challenges of operating a business in a global economy. Topics covered will include the various forms of business ownership, including entrepreneurship, as well as the basic functional areas of business (finance, management, marketing, administration and production). Students will be introduced to a wide range of careers in fields such as accounting, financial services, information technology, marketing, and management. Emphasis will be placed on using the computer while studying applications in these careers along with communication skills (thinking, listening, composing, revising, editing, and speaking), math and problem solving. Business ethics as well as other workplace skills will be taught and integrated within this course. This course is not intended to meet the consumer education requirement, but rather to provide preparation for the skill level courses that make up the Business, Marketing and Management occupations programs.

CAREER EXPLORATION

STATE COURSE NAME: Business and Technology Concepts

NCHS Course Code: TBD	**State Course Code: 22151A000**
Grade level: 9-12	**State Subject Area: Business and Marketing**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This is designed to help students investigate career and educational paths for their future. The course guides students through self-discovery projects and career assessments to identify strengths and interests. Students learn exploration techniques to define and clarify future goals. This will be offered 2018-2019 school year.	Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

ACCOUNTING I

STATE COURSE NAME: Accounting I

NCHS Course Code: BUS200A	**State Course Code: 12104A001**
Grade level: 10-12	**State Subject Area: Business and Marketing**
Possible credit: .5 (1 semesters)	**Rigor: G**
It is recommended that the student take Accounting I and II in the same school year.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course lays the groundwork for your success in the world of work through management. This course is a must if you are planning a career in business or majoring in accounting. Accounting is called the language of business. Students will explore: balance sheets, work sheets, general ledgers, journals, and income statements.	Accounting I is a course that assists students pursuing a career in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying and maintaining numerical data involved in financial and product control records including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing them for convenient interpretation, and analyzing them to provide assistance to management for decision making. Accounting computer applications should be integrated throughout the course where applicable. In addition to stressing basic fundamentals and terminology of accounting, instruction should provide initial understanding of the preparation of budgets and financial reports, operation of related business machines and equipment, and career opportunities in the accounting field. Processing employee benefits may also be included.

ACCOUNTING II

STATE COURSE NAME: Accounting II

NCHS Course Code: BUS210B	**State Course Code: 12104A002**
Grade level: 10-12	**State Subject Area: Business and Marketing**
Possible credit: .5 (1 semester)	**Rigor: G**
Prerequisite: Accounting I. It is recommended that the student take Accounting I and II in the same school year.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is the advanced course in accounting. The class is geared toward a student planning a career in accounting or business management. The students will develop a deeper knowledge of the principles of accounting. Students will also learn automated accounting. This course will include financial statements, business organizations, payroll accounting, accounting records, cost accounting, and accounting software.	Accounting II is a course that builds upon the foundation established in Accounting I. This course is planned to help students to develop deeper knowledge of the principles of accounting with more emphasis being placed on financial statements and accounting records. It is a study of previously learned principles as they apply to the more complicated types of business organizations: partnerships, corporations, branches, etc. The students may become familiar with such specialized fields of accounting as cost accounting, tax accounting, payroll accounting, and others. Some students may choose to do specialized accounting computer applications, and others may elect payroll clerk, data processing computer applications. Simulated business conditions may be provided through the use of practice sets. Skills are developed in the entry, retrieval, and statistical analysis of business data using computers for accounting business applications.

WEB DESIGN I

STATE COURSE NAME: Web Page and Interactive Media Development I

NCHS Course Code: BUS370A	**State Course Code: 10201A001**
Grade level: 10-12	**State Subject Area: Computer and Information Sciences**
Possible credit: .5 (1 semester)	**Rigor: G**
It is recommended that the student take Web Design I and II in the same school year.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
Students will have fun designing web pages. Learn do's and don'ts of web page design by evaluating existing web pages. They will learn to create pages, add hyperlinks, make tables and frames, create forms, integrate images, and set styles. Learn to use Photoshop to create professional, up-to-date websites that are pleasing to the eye and easy to use.	Web Page and Interactive Media Development I is a skill-level course designed to prepare students to plan, design, create and maintain web pages and sites. Students will learn the fundamentals of web page design using HTML, HTML editors, and graphic editors as well as programming tools such as JavaScript. Students will work in a project-based environment to create a working website. Students will learn to create pages, add hyperlinks, make tables and frames, create forms, integrate images, and set styles. Students will use image-editing programs to manipulate scanned images, computer graphics, and original artwork. Instruction will include creating graphical headers, interactive menus and buttons, and visually appealing backgrounds. Students will use hardware and software to capture, edit, create, and compress audio and video clips.

WEB DESIGN II

STATE COURSE NAME: Web Page and Interactive Media Development II

NCHS Course Code: BUS380B	**State Course Code: 10201A002**
Grade level: 10-12	**State Subject Area: Computer and Information Sciences**
Possible credit: .5 (1 semester)	**Rigor: G**
Prerequisite: Web Design I. **It is recommended that the student take Web Design I and II in the same school year.**	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course focuses on expanding your web design skills and build on what you have learned in the first Web Design course. Students will also learn to use Dreamweaver. Individual and group projects are assigned, and frequently involve the creation of "real world" interactive web sites.	Web Page and Interactive Media Development II is a skill-level course for students who have completed Web Page and Interactive Media Development I. Instruction will include using multimedia authoring applications and programming tools such as JavaScript to create a web site that combines text, hyperlinks, images, video, and sound. Instruction will include using hardware and software to capture, edit, create, and compress audio and video clips as well as create animated text, graphics, and images. Other topics will include using tables to align images with text, creating newspaper-style columns, and inserting side menus and call-outs. Students will learn how to use templates, cascading style sheets and interactive elements to enhance web pages. Students will learn to create dynamic forms that include multiple-choice questions, comment boxes, and buttons. Students will learn how to connect to a database and retrieve and write data. Students are encouraged to develop a portfolio project that demonstrates their expertise in areas such as multimedia authoring, web development, audio and video editing, and advanced JavaScript applications to create interactive web pages.

MULTI MEDIA I

STATE COURSE NAME: Media Technology-Other	
NCHS Course Code: BUS395A/BUS395B	**State Course Code: 10249A000**
Grade level: 11-12	**State Subject Area: Computer and Information Sciences**
Possible credit: .5 (1 semester) or 1 (2 semester)	**Rigor: E**
Prerequisite: Web Design I or Graphic Design I with a C or higher.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will be project-based and student centered. Students will edit and update the JCJH and NCHS site, maintain the extracurricular pages on the school's website, create monthly newsletters for the student body, and teach others to use online website builders. The students will also be involved in the T-shirt screen printing operation.	Other Media Technology courses.

MULTI MEDIA II

STATE COURSE NAME: Media Technology-Other	
NCHS Course Code: BUS400A/BUS400B	**State Course Code: 10249A000**
Grade level: 12	**State Subject Area: Computer and Information Sciences**
Possible credit: .5 (1 semester) or 1 (2 semester)	**Rigor: E**
Prerequisite: Multi Media I	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This is a continuation of Multi Media I.	Other Media Technology courses.

BUSINESS MANAGEMENT AND MARKETING

STATE COURSE NAME: Business Management	
NCHS Course Code: BUS600B	**State Course Code: 12052A001**
Grade level: 10-12	**State Subject Area: Business and Marketing**
Possible credit: .5 (semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course will allow students to develop an understanding and skills in areas of business management and marketing. The course is oriented toward principles needed to operate a small business and is designed for those who may eventually have their own businesses. Students develop their skills while using real world simulations.	Business Management courses acquaint students with management opportunities and effective human relations. These courses provide students with the skills to perform planning, staffing, financing, and controlling functions within a business. In addition, they usually provide a macro-level study of the business world, including business structure and finance, and the interconnections among industry, government, and the global economy. The course may also emphasize problem-based, real-world applications of business concepts and use accounting concepts to formulate, analyze, and evaluate business decisions.

COMPUTER PROGRAMMING AND GAME DESIGN

STATE COURSE NAME: COMPUTER PROGRAMMING	
NCHS Course Code: BUS750A or BUS750B	**State Course Code: 10152A001**
Grade level: 10-12	**State Subject Area: Business and Marketing**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
Introduction to Java programming and game video design. You will learn about project design, object-oriented programming, console applications, graphics applications and many elements of the Java language. We will use Game Maker to develop skills in video game design.	Computer Operations and Programming I is the first of two skill-level courses designed to develop computer programming and program design skills through the use of various programming languages such as Visual Basic, C#, Java, and other object-oriented languages. Students will be exposed to the fundamentals of system analysis and design (e.g. flowcharting, diagramming, system design and planning), and the systems development life cycle. Instruction will include basic programming tools that are common to many programming languages. These may include items such as input/output statements, constants, assignment statements, string and numeric variable types, conditional processing, and branching and looping control structures. Students will learn programming techniques such as counting, averaging, rounding, and generation of random numbers to develop a good programming technique. Students will apply what they learn to create programs and applications that solve real world business related problems. Students will create programs to store, locate and retrieve data.

CEO (CREATING ENTREPRENEURIAL OPPORTUNITIES) STATE COURSE NAME: Entrepreneurship	
NCHS Course Code: BUS800A/BUS800B	**State Course Code: 12053A001**
Grade level: 11-12	**State Subject Area: Business and Marketing**
Possible credit: 2 (2 semesters)	**Rigor: H**
Prerequisite: Student must meet a subscore on a placement test to be enrolled in a dual credit course.	**Dual Credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course seeks to prepare students to be responsible, enterprising individuals who become entrepreneurs or entrepreneurial thinkers and contribute to economic development and sustainable communities. Students are immersed in real life learning experiences with the opportunity to take risks, manage the results, and learn from the outcomes. CEO encourages creative thinking and promotes a strong sense of self-worth and accountability. The course covers the basics of conceptualizing, starting, and running a small business. Concepts such as supply and demand, cost/benefit analysis, competitive advantage, and opportunity recognition are covered. In addition, coursework includes: innovative thinking strategies, product development, business structure, marketing, financial strategies, record keeping, and preparing an income statement, balance sheet, income and cash flow statements. Entrepreneurial thinking (outside-the-box problem solving) is utilized throughout the course.	Entrepreneurship courses acquaint students 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 communication. Several topics surveyed in Business Management courses may also be included.

GRAPHIC DESIGN

STATE COURSE NAME: Graphic Design	
NCHS Course Code: BUS810A/BUS810B	**State Course Code: 05162A000**
Grade level: 10-12	**State Subject Area: Business and Marketing**
Possible credit: .5 (1 semester) or 1 (2 semesters)	**Rigor: E**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed for students to learn the functions of marketing as they relate to occupational tasks. The student will learn about salesmanship, promotion/advertising, pricing, market research, consumer behavior, and international marketing. The students will use the computer as a design communication tool from the vantage point of both the designer and computer generated processes. The course will allow the students to explore Adobe Photoshop, Illustrator, and InDesign to create these products for the businesses and community members.	Graphic Design courses emphasize design elements and principles in the purposeful arrangement of images and text to communicate a message. They focus on creating art products such as advertisements, product designs, and identity symbols. Graphic Design courses may investigate the computer's influence on and role in creating contemporary designs and provide a cultural and historical study of master design works of different periods and styles.

CAREER PRACTICUM

STATE COURSE NAME: Miscellaneous-Workplace Experience	
NCHS Course Code: BUS900A and/or BUS900B	**State Course Code: 22998A000**
Grade level: 12	**State Subject Area: Miscellaneous**
Possible credit: .5 (1 semester) or 1 (2 semesters)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course provides the opportunity to promote student service and involvement within our school and community. Admission into the Career Practicum Program is application based. Each student will receive an application after pre-registering for the class. Admission into the class will depend on the student's need, career goals, and transportation. Students will turn in weekly journals. Student's jobsite supervisor will evaluate the student twice each semester. This course offers student credit for a well-planned program from participation in "people related" service to the community. Practicum must take place during the regular school day and school year unless approved by the building supervisor and building principal. The student must be a senior and be on schedule to graduate. Students will meet with the building supervisor (teacher) on a weekly basis to discuss job skills. The student may not be monetarily compensated for any work or service performed and must work one period per day at the place of service.	Miscellaneous—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.

AUTO SYSTEMS

STATE COURSE NAME: Automotive Systems

NCHS Course Code: IND305A or IND305B	**State Course Code: 20106A000**
Grade level: 10-12	**State Subject Area: Transportation, Distribution and Logistics**
Possible credit: .5 (1 semester)	**Rigor: G**
Prerequisite: Student must have their license and not have already taken Trans I or Trans II.	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course develops basic car care skills, such as oil changes, tire rotation, and fluid level checks. Students learn basic service knowledge about the different systems involved with a vehicle such as engine operation, transmission, brakes, suspension, tires, fuel and ignition. With the information from this course a student should be able to understand the different types of maintenance and repairs as well as the costs involved. Students are prepared to make decisions on whether to have a vehicle repaired or to purchase a new or used vehicle. Students receive both classroom instruction as well as lab instruction where demonstrations are held. Students also have the opportunity to work on their own vehicles.	Automotive Service courses emphasize preventative auto maintenance and automobile troubleshooting. Course content typically includes tune-up, oil change, and lubrication skills; tire replacement, alignment, and balancing; and basic knowledge of brake, cooling, electrical, emission, fuel, ignition, steering, suspension, and transmission systems. These courses may also include public relations, sales techniques, and service station management.

TRANSPORTATION TECHNOLOGY

STATE COURSE NAME: Transportation Technology

NCHS Course Code: IND400A or IND400B	**State Course Code: 20001A001**
Grade level: 9-12	**State Subject Area: Transportation, Distribution and Logistics**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course explains basic engine theory, operation, and repair for small engines as well as automotive and industrial applications. Students learn about mechanical, fluid, and electrical power. They will have the opportunity to bring in small engines from lawn mowers, motorcycles, ATVs and develop their skills in diagnosis and repair. Tool usage, part identification, and specifications are examples of the information gained from this course.	Transportation Technology is a course designed to foster an awareness and understanding of the various transportation customs that make up our mobile society. Through laboratory activities, students are exposed to the technologies of and career opportunities involved in material handling, atmospheric and space transportation, marine transportation, terrestrial transportation, and computer uses in transportation technology.

TRANSPORTATION I

STATE COURSE NAME: Automotive Technician I	
NCHS Course Code: IND500A/IND500B	**State Course Code: 20104A001**
Grade level: 11-12	**State Subject Area: Transportation, Distribution and Logistics**
Possible credit: 1 (2 semesters)	**Rigor: G**
Prerequisite: Transportation Technology or Ag Mechanics	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course develops knowledge about automotive theory, operation, and repair. Several areas of automotive repair are covered, including engine, transmission, drive axles, brakes, steering, suspension, electronic, and electrical. Basic operating principles are established for each area covered. Besides classroom learning, students are given demonstrations on the vehicles and parts in the lab. Students also have the opportunity to work on their own vehicles and practice their newly developed skills.	This course introduces students to the basic skills needed to inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. Instructional units include engine performance, automotive electrical system, integrated computer systems, lubrication, exhaust and emission control, steering and suspension, fuel systems, cooling system, braking, and power train.

TRANSPORTATION II

STATE COURSE NAME: Automotive Technician II	
NCHS Course Code: IND510A/IND510B	**State Course Code: 20104A002**
Grade level: 12	**State Subject Area: Transportation, Distribution and Logistics**
Possible credit: 2 (2 semesters)	**Rigor: G**
Prerequisite: Transportation I	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is a continuation of the Trans I course where students learn advanced information on automotive operation and repair. Students further develop diagnostic skills on vehicles that are repaired in class. Computerized diagnostics, major repairs, and shop management skills are examples of what students gain from this class. This course prepares students for college level courses or possibly employment opportunities with repair facilities.	This course is a continuation of and builds on the skills and concepts introduced in Automotive Technician I. This course includes instructional units in alternative fuel systems, computerized diagnostics, new vehicle servicing, automotive heating and air conditioning, transmissions, testing and diagnostics, drive train and overall automobile performance.

HEALTH OCCUPATIONS

HEALTH OCCUPATIONS CORE OF SKILLS

STATE COURSE NAME: Nursing Assistant

NCHS Course Code: HEA410A or HEA410B	**State Course Code: 14051A001**
Grade level: 11-12	**State Subject Area: Health Care Services**
Possible credit: 1 (2 periods, 1 semester)	**Rigor: H**
Prerequisite: Student must meet a benchmark on a placement test to be enrolled in a dual credit course.	**Dual credit: Frontier Community College**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is offered to juniors and seniors interested in learning a skill in the health field. Students gain the satisfaction of making a difference in someone's life. Course content includes: classroom, laboratory, and clinical experience in the Nurse Assistant Program as required by Illinois Department of Public Health. NOTE: Health care facilities require this class to be a CNA (Certified Nursing Assistant). Students will be required to get a 2-step TB shot, which is available at the health department, purchase a workbook, and have a background check through the Unit, which is required by IDPH. Students are also required to wear scrubs at the clinical setting. Nurse Assistant course content includes: caring for the patient and his environment, giving baths and showers to patients, emptying catheters and body fluids, measuring fluids, temperature, pulse, respiration and blood pressure, providing positioning, transportation and mobility, providing therapeutic measures as instructed by the nurse, and observing and recording patient information.	The course is composed of a combination of subject matter and experiences designed to perform tasks of individuals receiving nursing services. The student learns those competencies needed to perform as a nurse assistant under the direction of the registered nurse. The units of instruction should include the role of the nurse assistant while covering general health care topics; medical terminology; patients/clients and their environment; special feeding techniques; psychological support and, in long term and terminal illness, death and dying (e.g., chronically ill, children, new mothers, and so on); and all other basic nursing skills. Topics covered typically include normal growth and development; feeding, transporting patients, hygiene, and disease prevention; basic pharmacology; first aid and CPR; observing and reporting; care of equipment and supplies; doctor, nurse, and patient relationships and roles; procedure policies; medical and professional ethics; and care of various kinds of patients. In order to have an approved nurse assistant program (one in which the students are eligible to sit for the certifying exam) the program must be approved by the Illinois Department of Public Health.

FAMILY & CONSUMER SCIENCE

FOODS & NUTRITION I

STATE COURSE NAME: Nutrition and Culinary Arts I

NCHS Course Code: FCS100A	**State Course Code: 16054A001**
Grade level: 9-12	**State Subject Area: Hospitality and Tourism**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed as a prerequisite course for Foods and Nutrition II and as an orientation course for Food Service Occupations. The curriculum includes: kitchen safety, food sanitation, selection of nutritional foods, basic food preparation techniques using the food processor and microwave as well as traditional kitchen appliances, and preparation of pizza, vegetables, sauces, gravies, fruits, cookies, and healthy snack options.	This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompasses food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

FOODS & NUTRITION II

STATE COURSE NAME: Nutrition and Culinary Arts II

NCHS Course Code: FCS110B	**State Course Code: 16054A002**
Grade level: 9-12	**State Subject Area: Hospitality and Tourism**
Possible credit: .5 (1 semester)	**Rigor: G**
Prerequisite: Foods & Nutrition I	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed as an orientation course for Food Service Occupations. The curriculum continues to emphasize the safe nutritional and sanitary preparation of food items using modern equipment and techniques. Students will explore preparation of vegetables, fruits, quick breads, dinner rolls, basic cake decorating, bundt cakes, cake rolls, casseroles, cream and fruit pastries, stir-frying, braising and broiling.	Nutrition and Culinary Arts II provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, regional & international cuisine, safety and sanitation, and careers in food service industries. All of these concepts can be interpreted through laboratory experiences.

CHILD DEVELOPMENT

STATE COURSE NAME: Child Development and Parenting

NCHS Course Code: FCS200A or FCS200B	**State Course Code: 19052A001**
Grade level: 9-12	**State Subject Area: Human Services**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is designed as an orientation class for students to have the opportunity to study the development of children from 12 months to six years. Students will explore the study of the physical, social, emotional and intellectual development of toddler and preschool age children. The course will include childcare career information where students may choose to have the opportunity to parent the "Baby Think It Over" and/or wear the empathy belly. This is an excellent course for both males and females.	Child Development and Parenting addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The focus is on research-based nurturing and parenting practices and skills, including brain development research, that support positive development of children. Students will explore opportunities in human services and education-related careers and develop a career portfolio.

ADULT LIVING

STATE COURSE NAME: Human Development and Family Wellness

NCHS Course Code: FCS400A or FCS400B	**State Course Code: 19053A001**
Grade level: 11-12	**State Subject Area: Human Services**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This class is planned to help the student understand his/her development as an individual, as a family member and as part of a society. The student will explore all aspects of life such as personality development, deciding on a career, getting and keeping a job, health, lifestyle options and consequences, and communication. This course will also include group behaviors, relationship with family and friends, mate selection and marriage. They will be given the opportunity to practice interviewing for a job.	This course focuses on the development and wellness of individuals and families throughout the life cycle. Topics include human development and wellness theories, principles, and practices; life cycle expectations and issues, including biological, physiological, social, and psychological needs and concerns of aging adults; community services, agencies, and resources; roles, responsibilities, and functions of families, family members and caregivers; family issues, including ethics, human worth and dignity, change, stress, neglect and abuse, and care of the care-giver; individual and family wellness planning; and fostering intergenerational relationships. Practical experiences related to these topics are included through a variety of activities such as volunteer experiences, service learning, and intergenerational event planning opportunities. Information on a variety of human and family services and careers is incorporated throughout the course.

RESOURCE MANAGEMENT

STATE COURSE NAME: Family Resource Management and Planning

NCHS Course Code: FCS700A or FCS700B	**State Course Code: 22210A001**
Grade level: 11-12	**State Subject Area: Miscellaneous**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This class focuses on understanding and acquiring the skills needed to make decisions about the use of resources, which contribute to an improved quality of life. Topics covered are budgeting, savings/investments, installment purchasing and credit use, comparison shopping, consumer rights and responsibilities, the use of resources to attain individual and/or family goals, purchasing or leasing an automobile. This course meets the requirements for the state mandated consumer education instruction and may be taken in place of economics	This course focuses on the identification and management of personal and family resources to meet the needs, values, and wants of individuals and families throughout the life cycle. The course utilizes a variety of project-based experiences and service learning opportunities to gain knowledge and expertise in understanding and applying management skills with consideration to diverse social, economic, technological, environmental, and cultural characteristics of individuals and families. Topics include: consumer rights and responsibilities in the marketplace; financial responsibility and decision making; planning and money management; credit and debt; risk management and insurance; saving and investment; homeownership; state and federal taxes; electronic banking; and current issues in the economy.

MUSIC DEPARTMENT

MARCHING BAND

STATE COURSE NAME: Marching Band

NCHS Course Code: MUS100A	**State Course Code: 05103A000**
Grade level: 9-12	**State Subject Area: Fine and Performing Arts**
Possible credit: .5 (1 semester)	**Rigor: G**
Prerequisite: Must be able to play a brass, woodwind or percussion instrument or have director's approval	
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course includes: marching and basketball (pep) band, preparations for the fall marching season, performance at all home football games, 5-7 marching competitions, local parades, all home basketball games, and selected girls' basketball games. There will be required attendance at 2 evening practices per week (conflicts between sports and band are worked out between coaches and directors).	Courses in Marching Band are intended to develop students' technique for playing brass, woodwind, and percussion instruments and cover appropriate band literature styles, primarily for marching performances.

Summer camps: ***Attendance at summer camps is vital to the success of the Marching Eagles.***

CONCERT BAND

STATE COURSE NAME: Concert Band

NCHS Course Code: MUS100B	**State Course Code: 05102A000**
Grade level: 9-12	**State Subject Area: Fine and Performing Arts**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course places emphasis on concert performing. This includes performances at remaining home basketball games, winter concert, and spring concert. Students will have the option to participate in honor bands, solo, and ensemble contests, and jazz band.	Courses in Concert Band are designed to promote students' technique for playing brass, woodwind, and percussion instruments and cover a variety of band literature styles, primarily for concert performances.

CHORUS

STATE COURSE NAME: CHORUS (1st semester) DRAMA-ACTING/PERFORMANCE (2nd semester)

NCHS Course Code: MUS200A/MUS200B	State Course Code: 15110A000 (1st semester) 05055A000 (2nd semester)
Grade level: 9-12	State Subject Area: Fine and Performing Arts
Possible credit: 1 (2 semesters)	Rigor: G
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
First Semester The student will be preparing for a "Pops Concert" with a two-night performance. There will be an opportunity to audition for a solo to be performed at that concert. Students will also prepare and perform a Christmas concert. The opportunity to audition for and become a member of the "Star Spangled Banner Club," which performs at various school and community functions will be another option for chorus members. Other opportunities include: audition for the Illinois Music Educators District chorus (if a junior or senior scores well, the student may be selected for the All-State Chorus), learning musical symbols in a choral music setting (both semesters), singing in solfege (both semesters), and signing in three and four part music with a well-blended mature choral sound (both semesters.) **Second Semester** This semester students will have the opportunity to audition for the spring musical theatre production and to work with lights, costumes, stage craft, etc. for the spring musical theatre production. Other opportunities include: traveling to professional musical theatre productions, and preparing and performing an end of the year Spring Concert of classical literature with a progressive level of difficulty.	**First Semester** Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts. **Second Semester** Drama—Acting/Performance courses are intended to promote students' experience and skill development in one or more aspects of theatrical production, but they concentrate on acting and performance skills. Initial courses are usually introductory in nature, while the more advanced courses focus on improving technique, expanding students' exposure to different types of theatrical techniques and traditions, and increasing their chances of participating in public productions.

PHYSICAL EDUCATION

PHYSICAL EDUCATION

STATE COURSE NAME: PHYSICAL EDUCATION

NCHS Course Code: PEC100A/PEC100B	State Course Code: 08001A000
Grade level: 9-12	State Subject Area: Physical, Health, and Safety Education
Possible credit: 1 (2 semesters)	Rigor: G
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course is that phase of education that deals with the student's mental factors as well as the big muscle activities. While health is the cardinal principle for education, it is reasonable to assume that a healthy body should house a healthy mind. It promotes a well-rounded program that helps to develop the pupil for everyday living. Units are taught in the following areas: Aerobics, badminton, basketball, bowling, flag football, golf, pickle ball, soccer, social dancing, shuffleboard, speedball, table tennis, tennis, touch football, track activities, tumbling, volleyball, weights, individual exercise, mass games, and life fitness. Three "no dresses" per semester are allowed. **(Four "no dresses" result in failure for the semester.)** Students are required to take a CPR class within their PE class before graduation.	Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

DRIVER EDUCATION DEPARTMENT

DRIVER EDUCATION	
STATE COURSE NAME: DRIVER EDUCATION-CLASSROOM AND LABATORY	
NCHS Course Code: DRE100A or DRE100B	**State Course Code: 08152A000**
Grade level: 9-12	**State Subject Area: Physical, Health, and Safety Education**
Possible credit: .5 (1 semester)	**Rigor: G**
Prerequisite: Student must be 15 years old by the required dates to be eligible for a specific driver education classroom session.	**DEADLINES: Summer: 15 years old by 6/2/17** **Fall: 15 years old by 9/8/17** **Spring: 15 years old by 2/2/18**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
Students will study traffic laws, rules and regulations, and basic fundamentals for safe operation of a motor vehicle. The student must have passed eight classes in previous two semesters to enroll in the course. The students can only be absent six days to be permitted to stay in the course (for the fall and spring semesters). If student is eligible to participate in the summer session, he will receive a letter clarifying the summer guidelines.	Drivers' Education—Classroom and Laboratory courses provide students with the knowledge and experience to become safe drivers on America's roadways. Topics in these courses cover legal obligations and responsibility, rules of the road and traffic procedures, safe driving strategies and practices, and the physical and mental factors affecting the driver's capability (including alcohol and other drugs). Experience in driving a vehicle is an essential component of these courses.

HEALTH EDUCATION COURSE

HEALTH EDUCATION	
STATE COURSE NAME: HEALTH EDUCATION	
NCHS Course Code; HEA100A or HEA100B	**State Course Code: 08051A000**
Grade level: 9-12	**State Subject Area: Physical, Health, and Safety Education**
Possible credit: .5 (1 semester)	**Rigor: G**
NCHS COURSE DESCRIPTION	**FEDERAL COURSE DESCRIPTION**
This course provides students with general health practices procedures and lifelong fitness skills. This includes: human ecology, environmental health, nutrition, facts regarding smoking, growth and development, disaster survival, mental health and illness, dental health, drug use and abuse, abstinence education, consumer health, Safe Haven law, personal health, violence/bullying, and disease and disease prevention.	Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.