North Central High School

Curriculum Guide
And
Guidance Handbook
2017-2018

Please make sure that you are taking 6.0 credits for athletic eligibility!

North Central Vision Statement

To provide quality educational programs for our community.

North Central Mission Statement

The mission of the North Central School District is to provide current instructional tools and methods which insure success throughout the student's educational career. Employees will strive to listen and understand student and family needs. Employees will provide a positive learning environment where they can guide students to make informed choices. It is the ultimate goal that students graduate from North Central High School with a foundation of knowledge for success and a desire for life-long learning.

Scheduling Classes

Suggestions for Scheduling

Students are encouraged to review their educational goals with their parents, teachers and school counselor in order to tailor their program to meet their plans for graduation. Consider, too, post-graduate plants to ensure adequate preparations are being made to meet these goals. The following will help to select and continue in an appropriate program of study:

- Include all the courses necessary for graduation requirements.
- Review thoroughly the courses available.
- Be realistic about your ability and aptitude when selecting your high school classes.
- Consider the pre-requisites and recommendations necessary to take each course.
- Consider the grades you have earned in the past.
- Consider your interests and take courses that will increase your knowledge in these areas.
- Discuss course selections with parents, teachers, and counselor prior to registration.
- Consider entrance requirements at the post-secondary school in which you are interested.
- Consider entrance requirements for jobs that do not require a college degree.

Extensive thought and planning given to registration will help ensure a rewarding and successful high school experience.

Course/Graduation Requirements

Each student graduating from North Central High School must have twenty-one (21) or more units of credit for graduation, meet subject requirements and pass the state testing requirements. Any student who has not earned the appropriate credits and fulfilled the appropriate credits for graduation will NOT participate in the graduation ceremonies.

A. All graduates must meet all curricular requirements established by the State of Ohio and the North Central Board of Education. All graduates must pass the required state of Ohio End of Course (EOC) Exams.

B. **Course Graduation Requirements (OHIO CORE)**

Language Arts:	Four Units
Math:	Four Units
* Including one unit of Algebra II or it's equivalence	
Science:	Three Units
Social Studies	Three Units
* Content of Economics and Financial Literacy will be taught in Government	
Health:	One-Half Unit
Physical Education:	One-Half Unit
Electives:	Six Units
Total	Twenty-One (21) Units

* Two semesters of Fine Arts are required for graduation. The coursework can be completed in any of grades 7-12. Students attending Four County Career Center are exempted from the Fine Arts requirement.

C. **End of Course** - **State Testing Requirements**

The Ohio High School Graduating Requirements were passed by the Ohio Legislature (House Bill 487). Besides meeting the course requirements, students must also take end-of-course exams (EOC) in seven areas as well as meet one of the following requirements:

1. Earn a cumulative passing score on the seven exams
    a. The seven exams are:
        i. Algebra I and Geometry
        ii. Biology
        iii. American History and American Government
        iv. English I and English II
    b. Graduation Points:
        i. Advanced Level = 5 points
        ii. Accelerated Level = 4 points
        iii. Proficient Level = 3 points
        iv. Basic Level = 2 points
        v. Limited Level = 1 point
    c. Students must meet a cumulative score of 18 points (out of 35 possible). Of these 18 points, a student must earn at least four points between the math exams, four points between the English exams and six points between the science and social studies exams.
2. Earn a "remediation-free" score on either the ACT or SAT score your junior year. North Central Juniors will take the ACT test. The test will be free of charge.
3. Earn a State Board of Education approved, industry-recognized credential or a state-issued license for practice in a career and achieve a score that demonstrates workforce readiness and employability on a job skills assessment (this is an very difficult assessment to pass)

E. These guidelines should be viewed as minimal. Usually a student will have earned more credits than needed for graduation**. It is the student's responsibility to see that requirements for graduation are met.** The high school will make every effort to keep up-to-date records and to keep the students and parents informed about the status of progress towards compiling the necessary coursework for graduation requirements. However, it is the student's responsibility to be acquainted with the necessary requirements to meet this goal.

Academic Honors Diploma Criteria

To be awarded an Academic Honors Diploma, a student must meet all or all but one of the following:

1. Four Units of English
2. Four Units of Math : Algebra I, Geometry, Algebra II, and one higher level math
3. Four Units of Science that includes two units of advanced science
4. Four Units of Social Studies
5. Three Units of one world language or Two Units of Two world languages
6. One Unit of Fine Arts
7. Maintain an overall high school grade point average of at least a 3.5 up to the last grading period of the senior year.
8. Obtain a composite score of twenty-seven (27) on the ACT test or 1280 on the SAT

Career Tech Honors Diploma

To be awarded a Career Tech Honors Diploma, a student must meet all or all but one of the following:

1. Four Units of English
2. Four Units of Math : Algebra I, Geometry, Algebra II, and one higher level math
3. Four Units of Science that includes two units of advanced science
4. Four Units of Social Studies
5. Two Units of Foreign Language
6. Four Units of Career-Technical minimum
7. Maintain an overall high school grade point average of at least a 3.5 up to the last grading period of the senior year.
8. Obtain a composite score of twenty-seven (27) on the ACT test or 1280 on the SAT
9. Complete a field experience and document the experience in a portfolio specific to your area of focus
10. Develop a comprehensive portfolio of work based on your field experience
11. Earn industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-Technical Competency Assessment or equivalent.

STEM Honors Diploma

To be awarded a STEM Honors Diploma, a student must meet all or all but one of the following:

1. Four Units of English
2. Five Units of Math: Algebra I, Geometry, Algebra II, and two higher level math
3. Five Units of Science that includes two units of advanced science
4. Three Units of Social Studies
5. Three Units of one world language or Two Units of Two world languages
6. One Unit of Fine Arts
7. Two Units with a focus in STEM courses
8. Maintain an overall high school grade point average of at least a 3.5 up to the last grading period of the senior year.
9. Obtain a composite score of twenty-seven (27) on the ACT test or 1280 on the SAT
10. Complete a field experience and document the experience in a portfolio specific to your area of focus
11. Develop a comprehensive portfolio of work based on your field experience

Arts Honors Diploma

To be awarded an Arts Honors Diploma, a student must meet all or all but one of the following:

1. Four Units of English
2. Four Units of Math : Algebra I, Geometry, Algebra II, and one higher level math
3. Three Units of Science that includes one unit of advanced science
4. Three Units of Social Studies
5. Three Units of one world language or Two Units of Two world languages
6. Four Units of Fine Arts
7. Two elective units with a focus in fine arts course work.
8. Maintain an overall high school grade point average of at least a 3.5 up to the last grading period of the senior year.
9. Obtain a composite score of twenty-seven (27) on the ACT test or 1280 on the SAT
10. Complete a field experience and document the experience in a portfolio specific to your area of focus
11. Develop a comprehensive portfolio of work based on your field experience

Social Science & Civic Engagement Diploma

To be awarded a Social Science & Civic Engagement Diploma, a student must meet all or all but one of the following:

1. Four Units of English
2. Four Units of Math : Algebra I, Geometry, Algebra II, and one higher level math
3. Three Units of Science that includes one unit of advanced science
4. Five Units of Social Studies
5. Three Units of one world language or Two Units of Two world languages
6. One Unit of Fine Arts
7. Three elective units with a focus in social sciences and/or civics
8. Maintain an overall high school grade point average of at least a 3.5 up to the last grading period of the senior year.
9. Obtain a composite score of twenty-seven (27) on the ACT test or 1280 on the SAT
10. Complete a field experience and document the experience in a portfolio specific to your area of focus
11. Develop a comprehensive portfolio of work based on your field experience

College Entrance

A student planning to attend any public or private four-year college or university should consider the following recommended courses while in high school. These are NOT requirements, but they are strongly recommended.

English	Four Credits
Math	Four Credits (including Algebra I, II and Geometry)
Social Studies	Three Credits
Science	Three Credits
Foreign Language	Three Credits is often preferred
Fine Arts	One Credit

College Credit Plus Program

The College Credit Plus Program provides students in grades 7-12 who are intellectually and socially capable of doing college work with an additional education option. Students may enroll in full or part time for courses for high school and/or college credit. The program is intended to complement rather than replace the high school curriculum.

Every college in Ohio offers the College Credit Plus Program. Entrance to the program depends on the passing of a college entrance exam – either the ACT or ACCUPLACER Test. Students are not eligible for College Credit Plus if placed in remedial level of Math or English.

There is no tuition to the student, or the student's family, to be accepted into the College Credit Plus Program. The college will not charge a student for textbook, materials or other fees directly related to the coursework. However, if a student fails a college class, the parents are responsible for paying North Central for the class before the student graduates from high school.

On February 13th at 6:00 pm., a meeting will be held with a college representative at Bryan High School. This is a **mandatory** meeting that a student interested in taking College Credit Plus classes must attend, along with a parent. It is extremely important that deadlines are met for the College Credit Plus Program for both the college and North Central. Failure to do so will mean the student not being able to participate in the program.

Four County Career Center

Four County Career Center is an option for Juniors and Seniors. Applicants must be entering their third year of high school, with no less than eight credits. Five of the eight credits must be from the following courses: English, math, science, social studies, health and physical education. An application must be signed by the student's parents/guardians and the school counselor prior to submitting it to Four County.

Class fees, uniform requirements and equipment expenses vary by career and technical program. Payment plans are available to students who may be unable to pay these fees.

North Central does provide transportation to students attending Four County. Four County school hours are 9:00 a.m. to 3:00 p.m.

When a student applies to a Four County Career Center program they and their parents/guardians are making a two year commitment.

Upon successful completion of a career and technical program and academic courses, Four County Career Center students graduate and receive a high school diploma from North Central. Career Center students will also attend a Recognition Day ceremony where they receive their Career & Technical Certificate of Completion and Career Passport.

The following are programs that Four County Career Center will offer for the 2017-2018 school year. For more information, go to their website: www.fourcounty.net.

Accounting & Business Management	Agricultural Diesel Mechanics	Auto Collision Repair
Automotive Technologies	Building Trades/Carpentry	Career Based Intervention
Chef Training	Computer Design/3D Modeling	Cosmetology
Culinary Arts Management	Diesel Mechanics	Early Childhood Education
Electrical	Fire and Rescue	Floral Design
Health Careers	HVAC and Plumbing	Interior Design
Landscape & Greenhouse Technologies	Law Enforcement & Security Tactics	
Medical Office Technologies	Network Administration & Cybersecurity	
Powersport Engine Technology	Software Design & Web Development	
Specialized Mechatronics & Robotics Technology	Sports Fitness & Exercise Science	
Veterinarian Assistant	Visual Art and Design	Welding Fabrication

North Central Clubs & Organizations

As a student of North Central High School, you have the opportunity to become involved in a number of clubs and organizations. As you look through this pamphlet decide which ones you are interested in. In order to join these clubs listen to daily announcements on meetings or contact the advisor of the club.

In addition to the clubs listed here there are also numerous athletic teams you may consider being a member of. In the fall, North Central offers golf (for girls and guys), cross-country (for girls and guys) and girls volleyball. The winter sports include girls and guys basketball and cheerleading. And in the spring you can participate in baseball, softball or track. Again, contact the coach or advisor if you are interested in any of these sporting activities.

If you are interested in music you can become a member of the North Central Pep Band or take part in a musical.

Whatever your interests are, become involved! These extra-curricular activities are an important part of North Central High School! We need YOU to help North Central remain a *great* school system!

Drama Club

NCHS Drama Club is an organization for any high school student interested in the performing arts. Whether one has interests on the stage or behind the scenes, we have something for everyone! The purpose of this group is to educate interested students in the various aspects of a musical play production. Students will have exposure to acting, staging, scenery, costuming, make-up, and the organization and operation of producing a dramatic event. All a student has to do to join the club is attend the first meeting, and one becomes an automatic member. However, to continue to stay in the club, a member must attend all specific meetings for their membership group, and participate in the spring musical by fulfilling some role as part of the cast and/or crew.

North Central FFA

"Learning to Do, Doing to Lean, Earning to Live, Living to Serve"

Become Part of the Herd!

The North Central FFA is part of the National FFA Organization, which is home to over 630,000 FFA members nationwide, including those from the Virgin Islands and Puerto Rico! And, they are followed by many onTwitter!

By enrolling in an Agriculture class, you automatically become a member of the FFA!

As a member of the North Central FFA, you have the opportunity to participate in TONS of activities, such as:

FFA Camp	State and National Convention	Judging Contests
Fundraisers	FFA Week	Ag Related Field Trips
Community Service Activities		

There are also MANY local, state and national award opportunities presented every year!
Keep up with North Central FFA on Facebook!

In Flight

In Flight is a branch of drama club. It is a theatrical show group and consists of approximately 6-9 boys along with the same number of girls. It involves singing and dancing with selections usually from past school musicals or Broadway shows. In place of auditions, the selection of students by the advisor for this subgroup is based upon participation and skill shown in the preceding spring musical and also by grade level. Seniors and juniors are selected first to fill the needed roles.

In Flight usually has one or more fall performances. Rehearsals are held during the end of lunch with some evening rehearsals a few weeks prior to a main performance.

National Honor Society

North Central's Eagle Chapter of the National Honor Society is a selective organization. In order to be inducted into the National Honor Society a student must meet certain criteria in each of the four basic principles of the National Honor Society. These principles are Scholarship, Leadership, Character and Service.

Students with a cumulative grade point average of 3.4 or higher, after the first nine weeks of their sophomore year are invited to apply for membership. A committee of teachers evaluates each student and selects the students that will be inducted. Induction ceremonies are held in the fall and spring each year.

Students in the National Honor Society help plan and prepare for the Honor Banquet each year and the Annual Blood Drive.

OARS Club

OARS Club is an outdoor activity club. The activities are student led, and include but are not limited to: hunting, trapping, fishing, hiking, camping, ice fishing, fly tying/fishing, canoeing, gardening, shed and mushroom hunting. OARS Club attempts to have at least one outing a month based on club members interests. Members are expected to attend meetings and attend outings that they are interested in.

Quiz Bowl Team

Membership of the North Central Quiz Bowl Team is based on teacher recommendation and the desire of each student to put in the time and effort that is needed to have a successful team. There is both a Varsity and Junior Varsity Quiz Bowl team. Throughout the year the team competes against other schools in Northwest Ohio in the Williams County Academic League. At the end of the season, the team competes in the WCAL Tournament. North Central has been past winners of the WCAL!

S.A.D.D.

Students Against Destructive Decisions (S.A.D.D.) is open to all high school students interested in empowering their peers to successfully confront the risks and pressures that challenge them throughout their daily lives. We provide students with tools to deal with the issues of underage drinking, other drug use, impaired driving and other destructive decisions. S.A.D.D. fosters a sense of belonging and promotes resiliency, leadership, and advocacy skills so that young people make positive life decisions that will carry them throughout life.

Spanish Club

Spanish Club is open to all students interested in learning more about Hispanic culture. The club exists to promote Hispanic culture. Some activities of the club include: taco parties, making crafts from Hispanic cultures, salsa making contests and outings to authentic restaurants. Joining Spanish Club will give students opportunities to expand their cultural horizons.

Spring Musicals

Spring musicals are usually held each year around the end of April. Auditions are held in late January. Callbacks, if needed, are held shortly thereafter. Regular musical rehearsals usually begin the last two weeks of February depending on number of students involved with basketball and tournaments. Rehearsals then continue daily and run 2-3 hours in length. Rehearsal attendance is mandatory but absences may be permitted with prior notification at director's discretion. Some weekend rehearsals are also scheduled. Dress rehearsal week and weekend are held the week prior to musical performance weekend and attendance is required. Rehearsal attendance during the week of spring break is NOT mandatory.

Student Council

The North Central High School Student Council is comprised of individuals who are spirited, are willing to abide by decisions of the majority, are willing to commit time to community service projects and are willing to participate in school activities and take pride in the North Central School System.

The purpose of the organization is to: develop attitudes of, and practice in, good citizenship; promote harmonious relations throughout the entire school; improve student-teacher relationships; improve school morale; assist in the management of the school; provide a forum for student expression; provide orderly direction of school activities; and promote the general welfare of the school.

Any high school student can become a member of student council as long as he or she is willing to provide twenty hours of community service, attend meetings and help with the annual fund raiser. Student Council sponsors Homecoming and also provides dances, student assemblies, Honors Banquet Awards and other services and activities.

Student Offering Acceptance and Respect(S.O.A.R.)

S.O.A.R. is an organization that any student can become a member of, as long as he or she is willing to commit the time and energy that is needed to make North Central a more peaceful school.

All S.O.A.R. members must fill out an application, interview, and if accepted, attend an eighteen-hour training session on peer mediation.

Besides peer mediation, S.O.A.R. members will provide classroom lessons to elementary students, plan an annual Peace Week, and assist in promoting conflict management activities to the school, community and other schools throughout Ohio.

ENGLISH

English I (1 Credit)

English 9 : Integrated Language Arts Instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction will be based on the benchmarks for grades 8-10 and grade level indicators for grade *nine*. Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics use an appropriate form to communicate their findings and continue to use effective communication techniques.
Note: Supplemental material purchase may be required.
Prerequisite: None

English II (1 Credit)

Integrated Language Arts Instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction will be based on the benchmarks for grades 8-10 and grade level indicators for grade *ten*. Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics use an appropriate form to communicate their findings and continue to use effective communication techniques.
Prerequisite: English I (or an equivalent course)

English III (1 Credit)

Integrated English III Language Arts instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction will be based on the benchmarks for grades 11-12 and grade level indicators for grade *eleven*. Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics, use an appropriate form to communicate their findings and continue to use effective communication techniques. **NOTE:** For college purposes, this will not be considered a college preparatory course for a four-year university/college, but it will meet the expectations for a two-year community/junior college, the military, and/or 21st century workforce career.
Prerequisite: English I and II (or equivalent courses)

English IV (1 Credit)

Integrated English IV Language Arts instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction will be based on the benchmarks for grades 11-12 and grade level indicators for grade *twelve*. Students will read a variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics use an appropriate form to communicate their findings and continue to use effective communication techniques. **NOTE:** For college purposes, this will not be considered a college preparatory course for a four-year university/college, but it will meet the expectations for a two-year community/junior college, the military, and/or 21st century workforce career.
Prerequisite: English I, II and III (or equivalent courses)

Advanced English III (1 Credit)

Advanced English III Language Arts instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction will be based on the benchmarks for grades 11-12 and grade level indicators for grade *eleven*. Students will read a more advanced variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics, use an appropriate form to communicate their findings and continue to use effective communication techniques. **NOTE:** For college purposes, this is considered a college preparatory course for a four-year university/college. In addition, the instructor reserves the right to review STAR reading scores and academic performance in previous English-Language Arts courses in determining student placement in Accelerated English III.
Prerequisite: STAR Reading Scores must be at a minimum of current grade level (11+) or higher, end of course exams for English I and II must be at a minimum level of Proficient, and the student must have earned at least a B average in previous English-Language Arts courses.

Advanced English IV (1 Credit)

Advanced English IV Language Arts instruction addresses the content and skills of Ohio's Academic Content Standards for English Language Arts. Instruction will be based on the benchmarks for grades 11-12 and grade level indicators for grade *eleven*. Students will read a more advanced variety of texts for different purposes, utilize the writing process, write for different purposes and different audiences, research self-selected or assigned topics, use an appropriate form to communicate their findings and continue to use effective communication techniques. **NOTE:** For college purposes, this is considered a college preparatory course for a four-year university/college. In addition, the instructor reserves the right to review STAR reading scores and academic performance in previous English-Language Arts courses in determining student placement in Accelerated English IV.

Prerequisite: STAR Reading Scores must be at a minimum of current grade level (12+) or higher and having earned at least a B average in Accelerated English III or equivalent Honors English course.

MATHEMATICS

Algebra I (1 credit)

This course covers the basic operations with signed numbers and variables, as well as factoring. In preparation for the Ohio Algebra I end-of-course exam, equation solving of linear and quadratic equations, various graphing techniques, data analysis, and probability are presented. Problem solving strategies are emphasized.

Prerequisite: None

Geometry (1 credit)

This course is the study of geometric figures in 2 and 3 dimensional space. In preparation for the Ohio Geometry end-of-course exam, inductive and deductive reasoning, the nature of proof, constructions and discovery of relationships are included in the course, as well as data analysis and probability.

Prerequisite: Algebra I

Algebra II (1 credit)

The second course in Algebra is designed to expand the student's initial study of linear and quadratic equations from Algebra I. Practical applications are emphasized throughout. Additional topics include matrices, conic sections, complex numbers and trigonometry.

Prerequisite: Algebra I and Geometry

Pre-Calculus (1 credit)

This course explores function theory and involves an in-depth study of trigonometry. Emphasis is also placed upon analytical geometry ideas. Related topics such as the nature of graphs, exponential and logarithmic functions, sequences, series, vectors, polar coordinates, parametric, and complex numbers will be covered.

Prerequisite: Algebra I, Geometry and Algebra II

Calculus (1 Credit)

This class will use the topics of Calculus to discuss the ideas of infinity and limits as well as go into topics such as differentials and integrals and use them to help solve real life problems.

Prerequisite: Algebra I, Geometry, Algebra II and Pre-Calculus

Probability and Statistics (1 Credit)

This course focuses on probability, data collection, descriptive and inferential statistics, and technological tools to analyze statistics. Students will continually be exploring data, planning a study, producing models using probability theory, and making statistical inferences. Students will work with statistical measures of centrality and spread, methods of data collection, methods of determining probability, binomial and normal distributions, hypothesis testing, and confidence intervals. Students will use multiple representations to present data including written descriptions, numerical statistics, formulas, and graphs.

Prerequisite: Algebra I, Geometry and Algebra II

Financial Algebra (1 credit)

This course combines algebraic and graphical approaches with practical business and personal finance applications to explore mathematics in a real world setting. The class is designed to motivate students to explore algebraic thinking patterns and functions in a financial context as well as encourage students to be actively involved in applying mathematical ideas to their everyday lives.
Prerequisite: Algebra I, Geometry and Algebra II

SCIENCE

Science 9 (1 credit)

The first part of the High School Science core that together with Science 10, teaches the areas of Science specified by the State of Ohio. These are taught between the 9th and 10th grade courses to prepare the high school student to be proficient in all of the recommended Science areas. Science 9 includes the following topics:

Matter – properties of matter, classification of matter, atoms, atomic structure, periodic table, isotopes, ions, chemical bonds (ionic bonds, covalent bonds), chemical reactions, and nuclear reactions (fission, radioactivity, half life)
Forces, Motion, and Energy – Newton's Laws (Inertia, gravity), motion, speed, velocity, acceleration, forces, momentum, friction, energy (kinetic, potential, transformation of energy)
Waves – sound, light, water waves, energy transfer, behavior, reflection, refraction, diffraction, Doppler shift
Universe
Stars – formation, stages of evolution (size, temperature, age), fusion, energy
Origin of the Universe – galaxies, redshift, current supporting theories, Big Bang, gravity

Core Biology (1 Credit)

The second part of the High School Science core that together with Science 9, teaches the areas of Science specified by the State of Ohio. These are taught between the 9th and 10th grade courses to prepare the high school student to be proficient in all of the recommended Science areas. Core Biology includes the following topics:

- Ecology and various ecosystems
- Scientific Methods
- Cell energy, uses and transfers
- Cell Cycle
- Genetics and heredity
- Evolution
- Diversity

Biology (1 credit)

A college prep science that introduces the concept of life.
Topics covered include:

- What Biology is and the nature of biology
- scientific methods
- SI – Measuring/Data Recording. Tables/Charts/Graphs
- Lab Safety
- Ecology
- Natural Cycles
- Population Biology
- Biodiversity & Conservation
- Cells
- Cell Cycle
- Cell Processes
- Genetics
- History of Life, Evolution

Methods may include: Notebook, hands-on, experiments, microscope, quizzes, tests, cooperative learning tasks, concept maps, and various color plates. (Special projects may be included).
Prerequisite: Recommended a B or better in Science 9. Recommendation by 8th grade science teacher.

Earth Science (.5 credit)

Discusses weather and climate with emphasis on the physical principles underlying the movement and processes occurring in the Earth's atmosphere; explores radiation and atmospheric heating, global circulation, weather systems fronts and air masses, cloud physics, local weather, and other topics in applied and aviation meteorology. This class also emphasizes the history of environmental concerns, biomes, species interactions with each other and their environment, air, water, soil and biological resources, population dynamics, toxicology, energy sources, land use management, and other related topics.

- **Atmosphere** – composition, layers, energy transfer, humidity, clouds, precipitation
- **Meteorology** – air masses, global winds, weather systems, fronts, pressure systems, weather instruments, predicting and analyzing weather
- **Storms** – thunderstorms, lightning, severe weather, tornadoes, hurricanes, dust devils, blizzards, nor'easters, floods, and droughts
- **Climate** – causes, classification (different types of climates), long term climate changes/causes, short term climate changes/causes, natural climate change, human climate change, global warming
- **Earth Resources** – renewable energy, nonrenewable energy, land, air, and water resources, biomass fuels, fossil fuels, alternative energy, conservation of resources
- **Human Impact on Resources** – population growth, impact on land resources (mining, forestry, urban development, and agriculture), impact on air resources (air pollution, smog, acid precipitation, ozone depletion), impact on water resources (pollution, conservation)
-
- ***•Open of Juniors and Seniors who have successfully completed Science 9 and Science 10 or Biology. This is a semester class.***

Anatomy and Physiology (1 credit)

An advanced college prep biological science that looks at the structure and function of the human body (oriented for health careers).

Topics covered include:

- anatomical terminology and References
- basic Biology review
- histology – study of tissues
- systemic overview
- body systems in detail including gross anatomy, physiology and pathology.

Methods may include: **notebook**, experiments, microscope, quizzes, tests, journal, clinicals, color plates, hands-on, skeletal system and **dissection of cat** muscles as well as internal anatomy (Research paper on cats also).

- Prerequisite: Open to juniors or seniors who had a B or better in Biology, **and** teacher **recommendation.**

Chemistry (1 credit)

A college prep science that integrates math and science concepts in studying the composition of matter, its states and its behaviors.

Topics covered include:
- Measuring/SI/Scientific Notation
- Factor labeling/Dimensional Analysis
- Atomic Structure (models, electrons, electron configurations)
- Periodic Table (properties and trends)
- Using Periodic Table
- Chemical Bonding (ionic, covalent)
- Writing Compound Formulas, Nomenclature, Models and Shapes
- Phases of Matter
- Chemical Reactions
- Gas Laws
- Stoichiometry
- Nuclear Reactions

Methods may include: quizzes, tests, experiments – **projects**, cooperative learning exercises.

Prerequisite: Algebra I, Science 9, Biology and it is recommended that you have B's or better in all three of these classes.

Physics (1 credit)

An advanced college prep class that strongly integrates math, logic, reasoning and science in studying matter and energy and their interrelations in the physical world.

Topics covered include:
- **Metric System, Scientific Notation and Significant Figures, Dimensional Analysis**
- **Graphing and interpretations of graphs**
- **Problems Solving with graphs and mathematical equations**
  - Velocity
  - Acceleration
  - Vectors
  - Projectiles
  - Forces, Momentum, Motion
  - Friction
  - Energy
- **Waves**
  - Properties
  - Reflection
  - Refraction
  - Interference
  - Diffraction
  - Light and its behaviors
- **Electricity and Magnetism**
  - Charge
  - Coulomb's Law
  - Electric Fields
  - DC circuits
  - Magnetic Fields
  - Electromagnetic Interactions

Methods may include: quizzes, tests, labs, experiments/demonstrations, hands-on activities, critical thinking and problem solving.

Prerequisite: a B or better in Chemistry, Algebra I **and** Algebra II.

Forensic Science (1/2 credit)

Forensic Science is focused upon the application of scientific methods and the techniques to crime and law. Recent advances in scientific methods and principles have had an enormous impact upon law enforcement and the entire criminal justice system. This course is intended to provide an introduction to understanding the science behind crime detection. Scientific methods specifically relevant to crime detection and analysis will be presented with emphasis placed upon techniques used in evaluating physical evidence. Topics and laboratory investigations included are : crime scene investigations, fingerprinting, document and handwriting analysis, ballistics, serology, hair and fiber examination, botany, organic and inorganic evidence analysis, entomology, the role of the medical examiner, the forensic autopsy, anthropology, germ warfare, DNA analysis, psychology and profiling, toxicology, paint analysis, glass comparisons and fragmentation, arson investigations, tire and foot impressions and casts. A case study and a current events approach will be used extensively. Guest speakers, videotapes, mock trials, and field trips may be used. Open to Juniors and Seniors interested in advancing their scientific knowledge. **Open to Juniors and Seniors who have successfully completed Science 9 and Core Biology or Biology and successfully completed the State of Ohio testing. This is a semester class.**

Food and Nutritional Science (1/2 credit)

This course explores topics in nutrition and food science. The study of food and nutrients includes discussion of their sources, chemistry, and metabolism. The effects of cooking on food are examined in the laboratory sessions in which basic culinary skills are learned along with "kitchen chemistry." Student interest leads to further investigation of special topics such as the mechanism of hunger, the development of new food products, the management of diet in health and disease, and the global problem of world food shortages. Guest speakers, trips, and videotapes may be used to enhance the curriculum. Each student does a personal diet evaluation, and enjoys sharing food projects with classmates.

NOTE: This is the only laboratory science in which you eat your experiments!

Open to Juniors and Seniors who have successfully completed Science 9 and Core Biology or equivalent. This is a semester class.

Zoology (1 credit)

This course is an introduction to animal diversity and addresses the fundamental principles of taxonomy, classification, and phylogenetic systems. The course will emphasize form, function, and phylogenetic relations within and between representative taxa and will include anatomical terminology, the evolutionary history of animals, animal body plans and symmetry, and animal development, behavior, and adaptations.

Classification
Animal Characteristics
Sponges
Cnidarians (sea anemones, jellyfish)
Worms
Mollusks (octopus, squid, cuttlefish)
Arthropods (insects, arachnids, crustaceans)
Echinoderms (sea stars, sand dollars, sea urchins)
Fish
Amphibians
Reptiles
Birds
Mammals
Animal Behavior

*Course will include dissections of animals studied

Open to Juniors and Seniors who have successfully completed Science 9 and Core Biology or Biology.

Astronomy (1/2 credit)

Humanity is linked to the solar system in countless ways. Topics covered in this course include the sky and celestial motions; ancient astronomy; the Copernican revolution; gravity, orbits, and interplanetary travel; formation of the solar system; a survey of the sun, planets and moons; asteroids, meteors and comets.

Size and history of the Universe – light years, astronomical units
Constellations – history, names, brightness, location, celestial sphere (the sky we see), motion of the sun/seasons
Moon – motion, phases, lunar eclipses, solar eclipses, moon's shadow, predicting eclipses
Origin of Astronomy – archaeoastronomy (astronomy of ancient people, Stonehenge, etc) Greece – beginnings of modern astronomy: Aristotle, Ptolemy, Copernicus, geocentric model, heliocentric model, Galileo, Tycho, planetary motion, Kepler,
Gravity – Galileo, Newton, Laws of Motion, orbits and tides, Einstein, Relativity, Curvature of Space-Time,
Meteorites – orbits, impacts on Earth, analyzing meteorites, origin
Asteroids – properties, asteroid belt, nonbelt asteroids, origin
Comets – properties, comet nuclei, origin, kuiper belt, Oort cloud, impacts on Earth (dinosaurs, Tunguska Event)
Our Solar System – origin, Moons, Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Dwarf Planets
Other possible areas of study – Galaxies, Stars, Black Holes, the Sun, and Life on Other Worlds???

•***Open of Juniors and Seniors who have successfully completed Science 9 and Core Biology or Biology. This is a semester class.***

SOCIAL STUDIES

Modern World History (1 credit)

Modern World History is a two- semester course required for graduation. The time period is mid 1500s through 1945 and beyond (Absolute Monarchy through WWII) Events in American History are touched on, but the focus is Europe. Videos are used to enhance learning, and group projects are used throughout the 2 semester course.

American History (1 credit)

American History is a two-semester course that is required for graduation. Events in American History are studied within the realm of world events. The time period studied is the 20th Century with emphasis on 1929 to the present.

Throughout both semesters an attempt is made to make our past history relevant to today. Videotapes are used to help illustrate our history.

American Government (1 credit)

Government is a two-semester course required for graduation. It consists of studying the basic foundation of the American government system. Voter participation, the branches of government, the role of political parties and the ideas of democracy are areas of particular study. The textbook is the basis for study. Integrated into Government will be the content of economics and financial literacy as expressed in the social studies academic content standards by the State Board of Education. A project will be required for the second semester.

Contemporary World Issues (.5 credit)

This course is designed for students to become aware of the major issues of the day and to have an in depth understanding and appreciation of current events. Within this course, students will explore current national, global, state, & local events and the dynamics of interactions among nations, regions, and people. The objectives of this course are: to enhance students' understanding of world events, to make the connection between current events and history, and to help students become informed citizens by thinking critically and examining fact-based evidences to develop informed views on major issues.

Contemporary World Issues is a junior and senior elective class.

Financial Literacy (.5 credit)

This course will introduce the topic of personal finance by examining the importance of both knowledge and behavior when it comes to managing money. Students will be given opportunity to learn and then practically apply concepts of saving and budgeting money, debt and credit, paying for college, bargain shopping, investing money, types of insurance, types of income and taxes, and giving. By the end of this course students will better understand how to confidently approach everyday life occurrences such as maintaining a bank account, purchasing a vehicle, creating and following budget, as well as creating a workable plan for your financial future.

Financial Literacy is a junior and senior elective class.

FOREIGN LANGUAGE

A Semester of Spanish must be passed (preferably with a "C") for a student to continue into the next semester.

Spanish I (1 credit)

The study of Spanish I provides skills in using the language in everyday situations. Basic vocabulary and grammar are introduced. The skills of speaking, listening, reading and writing are continually practiced throughout the year.

In addition to studying the language itself, the culture of the people and civilizations of the countries where Spanish is spoken is also presented.

Elective to students in grades 9, 10, 11 and 12.

*Freshmen need a recommendation from the 8th Grade English teacher. This is due to the need for the student to be able to memorize and spell numerous vocabulary words and the need for very good grammatical skills.

* Purchase of Workbook required.

Spanish II (1 credit)

The second year course continues the practice of speaking, listening, reading and writing but places a greater emphasis on oral use of the language. Grammar study is more advanced. Some writing is required. There will be a continuing study of the culture of Spanish-speaking countries.

Elective to students in grades 10, 11 and 12.

Prerequisite: Spanish I.

* Purchase of Workbook is required.

Spanish III (1 credit)

During the third year of Spanish, emphasis will be placed upon conversation with the aim of being able to use the language in daily situations.

More specific vocabulary and additional grammatical structures will also be presented.

Included in the course will be a study of the history, culture, and literature of the Hispanic world.

Elective to students in grades 11 and 12.

Prerequisite: Spanish I and Spanish II.

* Purchase of Workbook required if student is new.

Spanish IV (1 Credit)

The Spanish IV course will focus on the in-depth development of all language skills: speaking, listening, reading and writing. It will also focus on preparation for college level Spanish courses. Vocabulary and grammar of the advanced level will be introduced. Students will study vocabulary and grammar from the Spanish III textbook, will read short stories/novels and will view films in Spanish.

Elective to students in grade 12.
Prerequisite: Spanish I, Spanish II and Spanish III.
*Purchase of Workbook is required.

Physical Education (.25 credit)

A basic course in physical education, which introduces and develops skills in both team and individual sports and concepts of physical fitness. Some of the units being considered are: flag football, tae-bo, tennis, folk and square dancing, volleyball, soccer, basketball, physical fitness, weight training, badminton, floor hockey, softball, bowling and physical fitness testing.

Students in grades 9 and 10 are required to have one semester each year of physical education.

Personal Fitness (.50 credit)

This class is intended to show you how to begin now to be fit for life! A class designed for juniors and seniors that will include learning proper techniques in using weight lifting equipment. The students will also explore other life-long physical fitness means sure as using medicine balls and stability balls. If space allows, students may take this class for two semesters.
Prerequisite – Two semesters of Phys Ed.

Health (.5 credit)

The health course is a one-semester course meeting daily for one period. It will be developed around a textbook with emphasis on practical applications of the information covered including health habits and body functions. Special emphasis is placed upon discovering and discussing various viewpoints and attitudes concerning current major problems such as drug and alcohol abuse, STD's and AIDS and the HIV virus. Other current issues in the health related field will also be discussed. The course may also include a short DARE course.

Health is required of all students during the freshman year.

ELECTIVES

Agriculture Education

Agriculture, Food and Natural Resources (1.25 Credit)

This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners will obtain fundamental knowledge and skills in food science, natural resource management, animal science & management, plant & horticultural science, power technology and biotechnology. Students will be introduced to the FFA organization and begin development of their leadership ability.

Plant and Animal Science (1.25 Credit)

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined.
Available to Sophomores, Juniors and Seniors

Mechanical Principals (1.0)

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identify, diagnose, and maintain small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills.
Available for Juniors and Seniors.

Environmental Science for Ag & Natural Resources (1.0 credit)

Students will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Students will examine fundamentals of resource development, agriculture sustainability, energy needs and pollution control. They will analyze and interpret data gathered from studies on the ecosystem. Throughout this course, students will develop responses to environmental problems and develop management strategies for responsible conservation and resource development.

Available to Juniors and Seniors
This course will be offered in alternate years. (2018-2019 school year)

Business Management for Agricultural and Environmental Systems (1.0)

Learners will examine elements of business, identify organizational structures and identify and apply management skills. Learners will develop business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer sales techniques and apply concepts of ethics and professionalism while understanding related business regulations.
Available to Juniors & Seniors
This course will be offered in alternate years. (2017-2018 school year)

Agricultural and Environmental Systems Capstone (2.0)

**Students must be enrolled in the Business Management or Communications & Leadership course.
The capstone course is an opportunity for students to solve problems and demonstrate that they have achieved the requisite knowledge and skills in their chosen Agricultural and Environmental Systems career field pathway. The course is designed to assess cognitive, affective and psychomotor learning and to do so in a student-centered and student-directed manner. The capstone requires the application of learning to a project that serves as an instrument of evaluation.
Available to **Seniors only!**

Meat Science & Technology (.5 credit)

In this semester class, students will apply food chemistry and microbiology to processing, preservation, packaging, storage and marketing of meat products. Students will design and implement a quality assurance program that meets legal compliance and demonstrates knowledge of safe operation and maintenance of equipment and facilities. Students will evaluate carcass composition, assign quality grades, and examine valued-added products. Throughout the course, students will demonstrate customer service and sales techniques while understanding the scope and importance of business and safety regulations.

Available to students in grades 10, 11 and 12. Because this is a semester course the students are not required to be a member of FFA.

Animal Health (.5 Credit)

In this semester class, students will examine causes, symptoms, and treatment of common diseases with emphasis on developing preventative health management plans. Topics will include the study of pathogens, and classifying types of diseases and disorders. Students will perform animal health assessments and compare to standard characteristics. Throughout the course, students will utilize principles of technology to manage information systems, and research issues affecting the industry.

Available to students in grades 10, 11 and 12. Because this is a semester course the students are not required to be a member of FFA.

Family and Consumer Science Electives

Do you plan to live on your own after you graduate from high school? If so any of the Family and Consumer Science Classes are for you!

Career and College Readiness (1.0 credit)

In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations, review postsecondary admissions qualifications, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, networking, conflict-resolution, negotiation, leadership and entrepreneurship.

Human Growth and Development (1.0 credit):

In this course, students will analyze human growth and development throughout the lifespan. An emphasis will be placed on physical, cognitive, social and emotional growth and development. Additional topics will include human characteristics and traits, genetic defects, parenting styles and responsibilities and cultural differences within a family unit and community. This class is a combination of Family Living and Parenting.

Personal Financial Management (1.0 credit)

In this course, students will develop personal financial plans for individual personal well-being. Throughout the course, students will develop financial literacy skills to provide a basis for responsible citizenship and career success. Additional topics will include analyzing services from financial institutions, consumer protection, investing, and risk management.

Principles of Nutrition & Wellness (1.0 credit)

In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include steroid and supplemental use, body weight and management and the implementation of physical activity to maintain a healthy lifestyle. This class will have food labs every week.

Food Science (1.0 credit)

In this course, students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situation. Food safety and sanitation techniques will align to industry-recognized certifications. This class will have food labs each week.

Art

Art classes are designed to develop and broaden critical and creative thinking skills, understanding of and appreciation for the visual arts and culture and increase students' proficiency in visual art techniques and processes. Students who wish to plan a portfolio for entrance into art schools or college art programs should notify an art teacher.

Art I *(1.0 Credit)*

Prerequisites: None. This course is open to students in Grades 9, 10, 11, and 12.

Description: Students are offered the opportunity to explore various visual art forms and techniques in an introductory level course through the elements and principles of art and design. Students will be introduced to a variety of media through two-dimensional and three-dimensional approaches to creating and responding to visual arts.

Art II *(1.0 Credit)*

Prerequisites: Prior successful completion of 2 Dimensional Studies I (Art 1) is required. This course is open to students in Grades 10, 11, and 12.
Description: 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, knowledge, methodology to a variety of media through instructional activities that will develop and shape a visual arts foundation.

Arts & Crafts (*1.0 Credit)*

Prerequisites: None. This course is open to students in grades 9, 10, 11 and 12.
Description: Arts and Crafts is a class planned for students with vocational interests and for students looking for an opportunity to express themselves creatively. Craft activities may include two and three dimensional work; mosaics (glass, seeds, stone); glass fusing, reliefs (plaster); paper mache; copper enameling; painting; printing (block) and clay methods.

Ceramics (*1.0 Credit)*

Prerequisites: None. This course is open to students in grades 9, 10, 11 and 12.
Description: In ceramics, students will be exposed to basic hand building procedures as well as wheel-throwing techniques with clay. Students will also engage in fundamental glazing and firing techniques.

MUSIC

Band (1 credit)

The high school band stresses musical excellence and service to the school and community through its performances. Band meets primarily during the school day, but some after school rehearsals will be required. Performances include but are not limited to Fall, Holiday, Winter, and Spring Concerts, District Concert Band Contest, Pep Band, Williams County Fair, Graduation, as well as Memorial Day, Fourth of July, Clearfork Festival, and Christmas Parades.

Prerequisite: Junior High Band or permission of the instructor.

Music Theory (.5 Credit)

Music Theory will cover the basic elements of Western Music including: notation practices, metrical devices, major and minor modalities, the Church modes, intervals, basic triadic harmony, simple acoustics, musical terms, and an overview of music's stylistic periods (e.g. Antiquity, Medieval, Renaissance, Baroque, Classical, Romantic, Modern, and Post-Modern). The course will be conducted as an independent study, with it being the student's responsibility to set up meetings with the instructor. This course would serve as a valuable introduction for any student considering pursuing a career in music.

Chorus (1.0 Credit)
Early Bird Chorus (.5 credit)

The North Central High School Chorus is open to all students, grades 9 through 12 who have a strong desire to sing and perform in a vocal ensemble that strives for musical excellence. Chorus meets 5 days per week during the school day. Early Bird Chorus meets Monday through Thursday before school. Performances include but are not limited to: Fall, Holiday, Winter, and Spring Concerts, OMEA District 1 High School Large Group Contest, and Graduation. The chorus will also perform at the Pioneer Senior Center and sing the National Anthem at certain scheduled home games.

There will be some after or before school and/or night rehearsals in which all chorus members should be present. Normally, these rehearsals will be scheduled only when deemed necessary by the director. Prerequisite: Junior High Chorus or permission of the instructor.

Miscellaneous Electives

Accounting (1 Credit)

This class will expose students to the fundamentals of managerial and financial accounting. This is a great class to take if you have any interest in business, finance, or accounting because it will give you a foundation of the basic numbers that influence business decisions.

ACT Prep (.5 Credit)

The ACT exam preparation course will help students to perform at their best on the ACT college entrance exam by reinforcing key exam content and providing proven, effective test-taking skills. The course is web-based, with interactive lessons and practice tests that provide instant feedback and built-in remediation in the student's problem areas. In addition, multiple learning modes are utilized for practice, review, and assessment. *This semester long course is open to grades 9-12 and is graded Pass/Fail. *Please Note: This course is considered an elective and does not meet any of the core required credits for graduation.

Career Connections – CBI (1 credit for class, 2 credits for lab)

11^{th} – 12^{th} Grade

16 years of age or older

A work-based learning program designed to help academically challenged students achieve success in their academic classes and the world of work. Students will study employability skills and practice these skills on the job. Service learning projects and volunteer work will also be a part of this program. Students must fill out an application with a parent's signature to be considered for this program and be employed for the duration of this class.

Computer Programing (1.0)

Students will learn how to program using JAVA software. They will work with conditional statements as well as nested loops in order to make programs that accept input and perform desired operations.

This class is opened to Juniors and Seniors (or by permission of instructor)

Literature and Film (1 Credit)

In teaching both literary and filmmaking techniques, this course will utilize a variety of carefully selected films and documentaries as a medium for understanding the relationship between film and literature; in addition, this appreciation and enjoyment of the major art and literary form of the 21st Century will foster and assist students in critically reflecting on historical and social contexts. The course will define film as a literary art, explain how films tell stories, discuss the mechanics of creating an effective film, summarize the different genres of film, and discuss how films have advanced with technology. In addition, students will utilize critical viewing and reading skills in determining the success of adaptations and present their assessments through a variety of mediums. Students will study the language of film and focus on artistic techniques, such as the use of lighting, camera angles, music and sound, and editing, in order to better evaluate a film's success. Finally, students may submit film reviews based on some of the techniques and devices studied and interpreted. **NOTE**: This year-long elective course is open to students in grades 11 and 12, if space remains, the course will be opened to students in grades 9 and 10.

OARS (Outdoor Adventure Recreation Studies) (1 Credit)

The Outdoor Adventure Recreation Studies course will be exploring outdoor activities related to the natural world; moreover, studies and instruction will include archery, backpacking/hiking, canoeing/kayaking, fishing/fly-fishing, hunting, and trapping. In addition, other related instructional units will include animal identification, tree identification, plants as herbal remedies, scouting/tracking, and Native American studies. Finally, as a class, the students will maintain a school garden and plan and develop a wild game dinner. Regular outings will be scheduled based on student interest. Experts in various outdoor fields of study will be brought in to further assist students in their learning. This course is designed for students who enjoy actively participating in the natural world and having hands-on learning activities. **NOTE:** This year-long course is open to students in grades 11 and 12, if space remains, the course will be opened to students in grades 9 and 10. Also, a student may be a member of the OARS extracurricular club without being a student in the course.

Photography *(1.0 Credit)*

This class covers how to photograph scenery and subjects with a SLR digital camera. Students will learn how to save, rename, delete, copy, cut, and paste images. Students will learn how to share and write about their images using PowerPoint, Schoology, etc. Students will learn how to create themes using pictures and/or series of pictures. Students will also learn how to edit their pictures using Adobe Photoshop. Students may have a fee for use of the SLR cameras.

Photography is an elective for any high school student.

*SWAT Team (1 credit)
(SWAT – Students Working to Advance Technology)

This elective is designed to encourage students to advance their levels of technical expertise in support of the daily technological objectives and needs of the school district and community. Students will gain necessary technology competencies, experience job skill training, learn valuable social and communication skills, and advance their leadership skills. SWAT activities will include any or all of the following: multimedia crew for creating and/or covering announcements, special events, etc.; web page design, construction and maintenance; troubleshooting computer/printer problems, computer repairs, graphic designs created for teachers and students; software installs; teacher and/or student technology training; PowerPoint presentations designed for staff; use and demonstration of tools such as document cameras, interactive boards, digital projectors, digital cameras, etc.; assist in setting up technical equipment for special events; managing labs during use; library automation management.

Elective for students in grades 10-12; only 3-4 openings.
Prerequisites: some computer experience, typing skills, instructor's permission.
Requirements for placement: class application, references, possible interview with instructor with priority given to students who have volunteered in the lab in the past.

Yearbook (1 credit)

This course offers students actual "hands on" experience in designing the school yearbook, the *Aquila.* The students will master the skills of yearbook production, including copywriting, layout design, photography techniques, and advertising sales. Keyboarding and word processing skills will continue to be developed throughout the year.

Each student must be able to sell his/her ad quota because this is a part of his or her first semester grade.

Each student must fill out an application, and interview with the advisor and/or editor before being selected to be on staff.

Yearbook does NOT count as towards one of the four English credits required for graduation