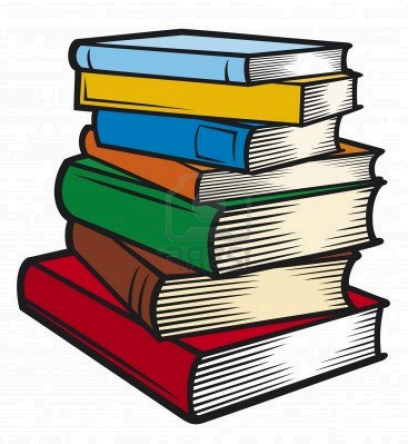
WATERLOO SR HIGH SCHOOL

COURSE DESCRIPTION GUIDE 2024-2025



How To Use the Course Description Guide
The purpose of this course description guide is to help students and parents make appropriate subject choices as they plan their schedules for each school year. Too often, students take courses at random, accumulating credits as they go through high school, without planning a program with any definite objective in view. If you utilize this guide, course selection will be made more wisely and you can organize a course of study that will lead toward a definite goal.

In planning a four year course of study, you should seek the advice of persons who know something about your abilities and interests and who are interested in your success in school and in your preparation for the future. These persons should include the guidance counselors, teachers, and administrator of your school, and certainly your parents.

The course description guide includes general explanations of the requirements, which must be met by any student who wishes to graduate from Waterloo Jr/Sr High School. Following these explanations and general information are pages to explain to the student which subjects are available, the grade level the course is available, how much credit each course is worth, and the prerequisites for the advanced courses. By using this information, each student will choose the subject that will be most helpful in reaching a definite goal.

Academic Areas
There are eight academic areas of study at Waterloo Jr/Sr High which include:

Art
English/Language Arts
Foreign Language
Health and Physical Education
Mathematics
Music
Science
Social Studies

Registration Procedures
To orient students to the process of registration and the planning of a high school program, information will be provided for each grade - 8th through 11th. Students will be given this course description guide as well as an explanation about all aspects of the high school program. They will have an opportunity to study this guide and discuss it with their parents before the actual scheduling process takes place.

The program selection process will be most effective if students carefully analyze interests, past achievements in school, requirements for graduation from high school, and requirements for future vocational or educational goals.

Graduation Requirements
It is the student's responsibility to see that requirements for graduation are met. The Guidance Department will make every effort to keep up-to-date records and to keep students and parents informed, however, the final responsibility rests with the student and parents.

Ohio Core Graduation Requirements
A minimum of 20.5 credits including the following:

English language arts	**4**
Mathematics (1 unit Algebra II or equivalent)	**4**
Science:	**3**
Physical Science (1)	
Life Science (1)	
Advanced Study (1)	
Social Studies:	**3**
World History (1)	

American History (1) Government (1)	
Health	**.5**
PE	**.5**
Financial Literacy	**.5**
Elective Credits (includes foreign language, fine arts, or English, Math, Science or Social Studies not otherwise required)	**5**
Total Credits for Graduation	**20.5**

- All students must complete at least two semesters of fine arts taken any time in grades 7-12. Students following a career-technical pathway are exempted from the fine arts requirement
- All students must receive content in Personal Finance, whether through our Financial Literacy course, or a qualifying CCP course or online course

Next Generation Assessments (For the Classes of 2023 and beyond)

Students Must:

1. Take end-of-course exams:
    a. Algebra I and Geometry
    b. Biology
    c. American History and American Government
    d. English II

2. And show "competency" and "readiness":

    a. Show **competency** by meeting one of the following options:

        i. Earning a "competent" score (determined by the state) on Algebra I and English II exams

        ii. Demonstrate Two Career-Focused Activities (at least one of the two must be a Foundational Skill)
            1. Foundational
                a. Proficient scores on WebXams
                b. A 12-point industry credential
                c. A pre-apprenticeship or acceptance into an approved apprenticeship program
            2. Supporting
                a. Work-based learning
                b. Earn the required score on WorkKeys Earn
                c. The OhioMeansJobs Readiness Seal

        iii. Enlist in the Military - Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

        iv. Complete College Coursework - Earn credit for one college-level math and/or college-level English course through Ohio's free College Credit Plus program.

    b. Show **readiness** by earning two diploma seals (at least one of the two must have state determined criteria):

        OhioMeansJobs Readiness Seal (State), Industry-Recognized Credential Seal (State), College-Ready Seal (State), Military Enlistment Seal (State), Citizenship Seal (State), Science Seal (State), Honors Diploma Seal (State), Seal of Biliteracy (State) Technology

Seal (State), Community Service Seal (Local), Fine and Performing Arts Seal (Local), Student Engagement Seal (Local)

For more information on the diploma seals visit the Ohio Department of Education's website, or Waterloo's Guidance department website.

Diploma Levels
The following criteria will determine which diploma will be earned by a student completing the minimum graduation requirements* at Waterloo Sr High School:

Diploma
a. meet all graduation requirements at Waterloo Sr High School.
b. not be eligible for an Honors Diploma.

Honors Diploma
The State of Ohio recognizes students who have exceeded the minimum graduation requirements. These students are recognized with an Honors Diploma for taking advanced courses and also completing real-world experiences.

Students have the opportunity to choose to pursue one of six honors diplomas:

1. Academic Honors Diploma
2. International Baccalaureate Honors Diploma
3. Career Tech Honors Diploma
4. STEM Honors Diploma
5. Arts Honors Diploma
6. Social Science and Civic Engagement Honors Diploma

For additional information and specific criteria that must be met for each type of honors diploma please refer to the Ohio Department of Education website at https://education.ohio.gov

Grade Level Classification
The minimum number of units of credit necessary for promotion to grades 10 through 12 is:

Grade 10....4.75
Grade 11 ...9.50
Grade 12...15.0

These units must include required subjects. All requirements for transfer students will be determined after evaluation of transcripts from the previous school attended.

Course Load
Students will schedule 6 classes per semester for the seven (7) period day.

College Prep Courses
Students who are planning to attend college would greatly benefit from courses currently offered at Waterloo Sr High School which include Geometry, Algebra I, Algebra II, Advanced Mathematics, AP Calculus, Foreign Language (2-4 yrs.), Biology, Chemistry, Anatomy & Physiology, Fine Arts (1 credit).

College Prep Programs of Study
In order to be successful in college, high school students should undertake a well balanced program with some courses in all subject areas. Because requirements for college vary, students should check the recommendations of the specific colleges in which they are interested before planning their schedules. However, most colleges endorse the following recommended program for students pursuing a Bachelor Degree from a four-year college:

four units of English,
three units of Science (two laboratory classes),
three units of Math (Algebra I, Algebra II, Geometry),
three units of Social Studies (includes two history courses)
two or three units of Foreign Language,
one unit of Visual Arts, or Music or Computer Science.

Some of Ohio's state universities require these courses for "unconditional" admission. Students should not neglect those subject areas that will assist them with their personal development as well as provide them with a good background for their prospective college major. Art, Music, Foreign Language and other elective courses may serve as foundation courses for future major fields of study in college. Students should refer to specific elective programs of studies for proper sequencing and suggested courses.

College Athletic Eligibility
NCAA Divisions I, II, and III have different freshman-eligibility standards in the areas of **Core Courses, Test Scores,** and **Grade-Point Average**.
Visit the NCAA Eligibility Center's website at www.eligibilitycenter.org for news and rules about practice, competition and financial aid.

The Preliminary SAT (PSAT)
The PSAT/NMSQT is administered to all interested college bound sophomores & juniors in October. This test is a version of the Scholastic Aptitude Test (SAT), which measures verbal, mathematical and written skills. It is recommended that all students who are planning to attend college consider taking this test. The PSAT/NMSQT is also the qualifying exam for juniors who are seeking scholastic recognition and financial awards through the scholarship programs administered by the National Merit Scholarship Corporation. Registration is completed through the Guidance department.

The American College Test (ACT)
Most colleges and universities in Ohio and nation-wide accept this test for admission and placement. The test consists of four subtests, English, mathematics, reading, sciences, and an optional writing test. The ACT is the most common college entrance exam that is administered to students in this part of the country. An interest inventory is included in the registration to assist students with their educational and vocational planning. Research has indicated that students improve their test scores when the test is repeated, it is recommended that juniors take the ACT in April or June and seniors take/retake the test in September, October, December, or February. Registration information is available online at ACT.org

The Scholastic Aptitude Test (SAT)
The SAT is a test that measures mathematical, critical reading, and writing. It is recommended that juniors take the SAT in May or June. This test will assist students in their college planning and satisfy requirements for special programs such as ROTC, the Academics, and early admission into college. Registration can be completed at collegereadiness.collegeboard.org/sat/register

Most colleges will accept either the ACT or SAT.

Advanced Placement Courses
A course with a curriculum approved by the National College Board and taught by a certified AP teacher could be designated as an AP course. Students completing an AP course would be eligible to pay a fee to take the AP test for that course and may be able to earn college credit.

College Credit Plus Program
(Formerly Post-Secondary Enrollment Options Program & Dual Credit)

Ohio's College Credit Plus (CCP) program allows high school students to take college courses and earn high school and college credit simultaneously. Students enrolled in the CCP program may choose to enroll in up to 30 college credit hours per school year (summer included). To be eligible, students must meet the

admission standards of the participating college or university to which they apply for enrollment. Student athletes must follow OHSAA regulations to be eligible to participate in high school athletics.

Kent State University

Sample 15 Credit Hour Pathway

Kent State University Course Name & Number	Course Prerequisite	College Credits
ENG 11011 - College Writing I	See Catalog	3
Kent CORE Mathematics or Critical Reasoning Course	See Catalog	3-5
Kent CORE Humanities or Fine Arts Course	See Catalog	3
Kent CORE Social Science Course	See Catalog	3
Kent CORE Basic Science Course	See Catalog	3-5
		Total Credits: 14-16 maximum per semester

Sample 30 Credit Hour Pathway
(includes 15 Credit Hour Pathway above)

Kent State University Course Name & Number	Course Prerequisite	College Credits
Kent CORE English course	See Catalog	3
Kent CORE Mathematics or Critical Reasoning Course	See Catalog	3-5
Kent CORE Humanities or Fine Arts Course	See Catalog	3
Kent CORE Social Science Course	See Catalog	3
Kent CORE Basic Science Course	See Catalog	3-5
		Total Credits: 14-16 maximum per semester

Youngstown State University

Sample 15 Credit Hour Pathway[1]

Semester or year I		Credits	On campus at YSU	On-line
ENG 1550	English Composition I	3	Y	TBD
MATH 1510 MATH 1571	College Algebra or Calculus I	4	Y	TBD
CMST 1545	Communications Foundations	3	Y	TBD
	Credit Hours	10		
Semester or year II				
ENG 1551	English Composition II	3	Y	TBD
ENG 2618	American Literature and Diversity	3	Y	TBD
	Credit Hours	6		
	Total Pathway Credit Hours	16		

Sample 30 Credit Hour Pathway[1]
(includes 15 Credit Hour Pathway above)

Semester or year I		Credits	On campus at YSU	On-line
ENG 1550	English Composition I	3	Y	TBD
MATH 1510 MATH 1571	College Algebra or Calculus I	4	Y	TBD
CMST 1545	Communications Foundations	3	Y	TBD
BIOL 2601 or CHEM 1515	General Biology Molecules and Cells or General Chemistry I	4	Y	TBD
	Credit Hours	14		
Semester or year II				
ENG 1551	English Composition II	3	Y	TBD
ENG 2618	American Literature and Diversity	3	Y	TBD
PSYCH 1560	General Psychology	3	Y	TBD
BIOL 2602 or CHEM 1516 or PHYS 1501	General Biology Organisms and Ecology or General Chemistry II or Fundamentals of Physics	4	Y	TBD
CMST 2610	Intercultural Communications	3	Y	TBD
	Credit Hours	16		
	Total Pathway Credit Hours	30		

[1] Pathways that are exactly 15 or 30-credit hours may be achieved by selecting a variety of courses. Many courses could substitute for the above examples. Courses may be taken over a longer period of time and sometimes in a different sequence. YSU advisors and your high school counselor can help you explore your options. (Y = Yes, TBD = to be determined)

Credit Flexibility
Credit Flexibility applies to any alternative coursework, assessment and/or performance that demonstrates proficiency qualified to be awarded equivalent graduation credit as applied for and approved in advance by the appropriate personnel of Waterloo Local School District. Approved credit awarded through this policy will be posted on the student's transcript and counted toward student grade point average (GPA), class rank and as graduation credit in the related subject area or as an elective. Details of the Credit Flexibility policy and plan can be found on the district website.

Advanced Class Prerequisites
First year courses, such as Spanish I, Algebra I, Ceramics I, etc., are prerequisites for advanced courses. It is recommended that a student obtain **at least a "C" average** in the entry level courses to continue to upper level courses. A student should have earned **at least a "B" average in English** to attempt a foreign language. Other courses have prerequisites as well, which can be found in their course descriptions.

Course Selection Hints
Select the courses which you believe to be best suited to your interests and abilities. Try to choose as many math, social studies, science, and language arts courses as possible. Select electives that have interest for you and may provide valuable skills for lifetime activities.

Failing Required Subjects / Summer School
A student failing a required subject must repeat that subject the following year unless it is made up during the summer in an accredited summer school program (credit recovery). Failure of any year course, required or elective, will require the repeating of the entire course to receive credit. Year courses (1 credit) are not passed on a semester basis. A final grade must be a passing grade to earn credit in a year course.

Student Responsibilities in Obtaining Credit for Classes
Assignments and major projects that are designed as part of a course requirement must be completed satisfactorily or no credit will be granted for the course regardless of other grades earned in the course. All fees and charges assigned for books/supplies must be paid before final report cards are released at the end of the year. All incomplete grades must be made up by the end of the third week of either semester. Incomplete grades will become "F" grades for the semester/year after that time. Only the Principal may extend this time limit.

Unpaid Fees and Fines
Students who have not paid fees or other school related charges may not have their course selections processed for the next school year. In addition, all fees/fines and charges assigned for books/supplies must be paid before final report cards are released at the end of the year. Credit may be withheld until all fees/fines are paid. A student with outstanding class fees may be withdrawn from a class at the end of the first grading period. ***No senior will be permitted to participate in commencement or receive a diploma or transcripts unless all outstanding fees/fines are paid.***

The Registration Process
During the scheduling process, students are requesting classes only. No student is guaranteed that any course requested will be available. Students may have to make alternative selections at some time during the scheduling process. Some students may be assigned to specific classes for academic reasons, because of scheduling conflicts or because classes may be offered alternate school years. Courses with a low number of students signed up may not be offered. Classes may be added to incomplete schedules. While the intent of the registration process is to give the widest possible range of choices to the student, the practical matter of building a schedule for the high school staff and students may require necessary changes in individual student schedules.

Requests for a specific teacher will not be considered before, during or after the registration is completed.

Schedule Changes During the School Year
Since student course selection determines the assignment of teaching staff and availability of classes, and since much planning is done before a student requests a schedule, course selections may not be changed once school begins unless:

an error was made during the registration process.
a change is necessitated by course failure during the year.
adding a course in place of a study hall if space is available.
an inappropriate placement is determined.

Requesting Withdrawal from an Elective Class
Students are not permitted to drop one course to substitute another anytime during the school year without special permission. If approved, the change will occur during the first grading period. A student will not be permitted to drop below six classes per semester without special permission. Class fees may be refunded on a prorated basis only.
Any request to drop an elective class after the first grading period or, if a student is removed from class for disciplinary reasons, will result in a "F" grade being assigned each remaining grading period and as final grade for the semester/year. This grade will be recorded on the permanent record. Class fees will not be refunded.
All requests to drop a required course must be approved by the Counselor and/or the Principal. All requests to drop an elective course after the deadline must be approved by the Counselor and/or the Principal.

Athletic Eligibility
The State of Ohio, through the Ohio High School Athletic Association, adopted the following eligibility requirements for all athletic programs, effective January 2001: "In order to be eligible for interscholastic athletics, a student must have received passing grades during the preceding grading period in a minimum of five (5) credit-equivalent bearing classes." As a condition for the privilege of participating in interscholastic extracurricular activities, a student must have attained a minimum grade point average of 1.0 and received no more than one failing grade for any class or course in the District's graded course of study for the previous grading period.
Physical Education class does not count toward athletic eligibility. Grades earned in the last nine weeks of the school year determine eligibility for the first grading period the next school year.

Early Graduation (this policy is reviewed yearly and criteria may change)
There are many advantages and opportunities for students to expand their academic and social development by completing four full years of high school. There are, however, circumstances where early graduation is desired and will be considered for approval. The following reasons are acceptable for consideration for early completion of graduation requirements:

accepted for admission into an educational institution.
accepted for admission into the military.
employed full time 30 hours or more / week
unusual circumstances which require early graduation.

To be considered, a student must make his/her intention known during the registration process of the junior year. Counselors will provide the appropriate form to interested students. This form must be filled out and returned to the Guidance Counselor. The Principal will make the final determination regarding early out requests. Diplomas will not be available until presented to the class at the end of the school year.

Work Release
Senior students may be released 6th and 7th periods in order to go to work or prepare themselves for work if certain requirements have been met. Approval of the Principal is required.

Special Programs / Evaluations / Decision
When a student does not make adequate progress in the regular educational program, he or she may be referred, with parental permission for a multi-factored evaluation to help determine if a different educational program would be appropriate. Programs and services available for qualifying students within

the high school include Specific Learning Disabled, Developmentally Handicapped, and Speech / Language Therapy. Programs that may be provided in other settings include services for Multi-handicapped, Hearing Handicapped, Visually Handicapped, Orthopedic and/or Health Handicapped, and Severe Behavior Handicapped. Based on evaluation results, referrals may also be made to community agencies for further services.

Multi-factored evaluations may include cognitive ability, academic achievement tests, classroom observations, interviews with parents and school staff, and other tests needed to provide information on the functioning of the student. Parents are encouraged to provide a developmental and medical history of the student including any condition that may affect the ability to learn. Decisions regarding placement are made by a group consisting of school personnel and parents. In some cases, students may be referred for evaluation to provide additional information for counseling, vocational training, or for other purposes. Individual career evaluation is available at Maplewood Career Center.

The Special Education teachers work with students with disabilities who are enrolled in regular classes, but who require additional instruction in one or more academic areas to make satisfactory achievement in regular classes. Instructional objectives are developed with regular classroom teachers and parents.

Maplewood Career Center
Students attending Maplewood Career Center must meet the standard graduation requirements for all students attending Waterloo High School, excluding the Fine Art requirement. Information about Maplewood's high school programs, and their online application, can be found at mwood.cc

Admission to Maplewood Career Center
To be admitted to Maplewood Career Center a student must have approval of the WHS Guidance Counselor, a parent(s) or guardian, and a Maplewood Guidance Counselor. An applicant must have completed two (2) years of high school and earned a minimum of seven (7) credits; an exception may be considered for special circumstances. Students attending Maplewood must meet the graduation requirements and upon successful completion, graduate from Waterloo Jr/Sr High School.

Program availability depends on enrollment. Students who are interested in attending Maplewood Career Center should complete a Maplewood application before January 15 of their sophomore year. Once a student is accepted into Maplewood, if he /she does not wish to attend that program, they have until the last school day of their sophomore year to notify the Guidance Counselor in writing with a parent signature. After that, he/she may only return to Waterloo at the end of the second week of their junior year. Some forms/signatures are required.

Viking Digital Academy
The Viking Digital Academy has been created as an extension of the public education options offered by the Waterloo Local School District. The courses offered through the Viking Digital Academy are aligned with the State of Ohio Academic Content Standards and Waterloo Local School District course offerings. Students enrolled in the Viking Digital Academy are considered Waterloo Local School District students, and as such, all district policies and rules, as found in building student handbooks, apply.

Students who are enrolled in the Viking Digital Academy are eligible to participate in extracurricular activities if they meet requirements established by the Ohio High School Athletic Association.

A letter of recommendation from a medical, or mental health professional is required in order to be enrolled in the Viking Digital Academy. The letter must state that, in their professional opinion, the online school is the best learning environment for that student. If no such documentation is available, a student may still pay out of pocket for their courses. Students who are enrolled full-time (with documentation) are only responsible for class supply fees, if such exist. Students enrolled part-time, or full-time without documentation may be responsible for the costs associated with their program. These costs may include: $160 registration fee, $220/full-year class, $110/semester class, and class supply fees.

The Waterloo Local School District has formed a partnership with ACE Digital Academy for course offerings in the Viking Digital Academy.
Students who are part of the Viking Digital Academy need access to a computer and internet services.
Students who complete the graduation requirements of the Waterloo Local School District through the Viking Digital Academy will receive a Waterloo Jr/Sr High School Diploma and be permitted to participate in graduation activities including commencement.
Students enrolled in the Viking Digital Academy are expected to complete, at minimum, one (1) unit per week per course. Grades will be reported to parent/guardian(s) through quarter interim reports and quarter report cards. Once a quarter has finished, a student will not be permitted to go back and complete missing work for credit.

Course Descriptions

ART

Visual Arts courses are divided into **three** categories: **Fine Arts & Design**, **Skilled Arts, Digital Arts**
All visual arts courses will provide students the opportunity to engage in the visual arts in meaningful ways, and learn new skills.

Fine Arts & Design Courses* - *Visual arts courses are designed to expose students to art and culture, as well as provide the opportunity to develop skills as a visual communicator, creative problem solver, and critical thinker. Visual arts courses facilitate an environment in which students can explore visual arts as a means to self-discovery. Through visual arts courses students will learn how to employ the use of skills learned to help them perceive and respond to the world and culture that we are all a part of, while creating unique, individualized, art pieces. In doing so it is my hope that students will develop a life-long love and appreciation for the visual arts.

The Impact of Art – 5104
In this class we will venture into discovering the wild and crazy world of visual arts and all of the strange, weird, and wonderful ways that art has impacted our world. Visual arts and culture highly affect one another. We will learn about how art has impacted culture and visa-versa through discovering fun facts, viewing a large variety of art, and discussing pertinent topics in visual arts, among other activities. This course is intended to provide a fun, engaging opportunity to explore the arts in an environment that is less studio driven. Production of art pieces will be minimal compared to other visual arts courses, and will often be collaborative, meaning students will be working in partners, groups or as a class.
Length: 1 semester, Credit: ½, Level: 9-12, Beginner, Prerequisite: None, Fee for supplies

Art Exploration - 5105
You don't have to be an amazing artist to have fun creating quality art. Try your hand at working with a variety of artistic materials, and find out what art materials and processes you enjoy, and can become skilled at! Benefit from the freedom of being able to work experimentally with various materials. All experience levels welcome! Everybody starts somewhere regardless of the talents, experience (or lack of) that you may bring with you. This is a class that allows you to try a variety of artistic techniques and be exposed to a wide range of materials that artists have worked with to create visual art.
Length: 1 semester, Credit: ½, Level: 9-12, Beginner, Prerequisite: None, Fee for supplies

2-D Art & Design - 5101
In this course you will be exposed to the fascinating world of 2-D art and design through themes such as pop culture among others. While viewing, discussing, and creating your own art and design pieces we will explore topics such as identity, music, and so much more. Through art and design, we will learn both about ourselves, who we are, and the world we live. You will have opportunities to create art individually and in groups or pairs. In doing so, you will work with a variety of art and design & media such as: collage, mixed media, pens, markers, graphite, inks, chalks, pastels, paints, print materials, and possibly computer-generated art. You and your classmates will practice creative thinking skills to solve visual problems and develop interesting art and design pieces. Whether or not you are "good" at art is less important than your attentiveness in class, ability to follow directions, and willingness to be actively engaged in course activities. This course is a great opportunity to connect with visual arts.
Length: 1 semester, Credit: ½, Level: 9-12, Beginner, Prerequisite: None, Fee for supplies

3-D Art & Design - 5102

Everything we use has been designed or engineered by someone, the pattern on the back of your phone case, the design on your t-shirt, the shape of your ear buds, the bodylines of your car or motorcycle, and so much more. 3D Art & Design is a project-based class designed to broaden your exposure to 3-D art, design, and culture. In this class you will build creative problem-solving skills through individual and group experiences that promote creative thinking, while creating and designing 3-D works of art and design. You will explore a variety of materials and processes such as, building with cardboard, papier-mache construction, reclaimed book or textile alteration, recycled art creations, wire or mixed media sculpture, duct tape design, plaster or soap carving, and more. Building and creation processes such as assemblage/construction, reduction, and modeling may be used to complete artwork based on themes, concepts, or design problems. Art & design styles and genres will be explored through the examination, analysis, and interpretation of traditional and contemporary art, artifacts, and artists. The design creation process will be taught and reinforced considering design elements, function, aesthetics, creativity, and craftsmanship.

Length: 1 semester, Credit: ½, Level: 9-12, Beginner, Prerequisite: None, Fee for supplies

Studio Art I & II – 5106, 5107

Do you love art, drawing, painting, digital arts, 3-D art etc.? Are you a relatively skilled artist already? This course is for intermediate to advanced level students. You will be challenged & guided to elevate your artistic skills, as well as learn to think critically about artistic decisions. The goal of this series of courses is to allow students to thrive as individual artists, and begin to develop their own visual artistic style! Studio art classes are for students who are interested in designing and creating their own art projects from start to finish and pursuing their unique, individualized ideas through the visual arts! You will build a body of work based on your personalized interests in the arts. Tackle subject matter and styles that you find intriguing. You will also be introduced to styles and techniques that you may be unfamiliar with in order to increase your skill level and broaden your exposure to art. Through research, planning, sketching, sample creation, and art production you will build a body of work that you can be proud of. Your finished collection of artworks will be displayed in your own gallery showing! Students enrolled in this class should either have taken previous art courses or demonstrate strong skills in one or more areas of visual arts. (Contact Mrs. Ritchey if you have any questions.)

Length: 1 semester, Credit: ½, Level: 10-12, Intermediate & Advanced, Prerequisite: Any previously taken visual arts course or demonstration of skills through an artist portfolio, Fee for supplies

NOTE: *(9th grade students may be permitted to enroll in this course if they produce a portfolio of artwork that demonstrates competency & is approved by the teacher & administration)*

AP Art - 5115

Did you know that you can earn both high school and college credit for taking and passing AP art through the AP college board? AP Art is an intense course of study intended for students who are dedicated to creating a strong body of artwork. You do not have to peruse an art degree in college to take this course. This course is an ongoing process of critical thinking, problem solving, and self-exploration that facilitates opportunities for student growth through a variety of activities intended to help students develop of their own individual artistic visual voice. Students who complete this course will build a portfolio of artworks that will be submitted and judged by an AP visual art college board. Students enrolling in this course must be committed to spending quality time completing their art projects both in and out of the classroom. This course is extremely demanding of time and effort, but fully rewarding. To learn more about AP art visit the college board website at www.collegeboard.com and read more about the expectations of this program.

Length: 1 semester, Credit: 1, Level: 11 & 12, Advanced, Prerequisite: 2 visual arts credits (4 visual arts courses) and/or demonstration of skills through presentation of visual arts portfolio, fee for supplies

<u>Skilled Arts Courses</u>: Skilled arts classes are intended to allow students to learn the basics of an art or craft, as well as practice to improve the techniques and processes learned throughout the course of a semester. Student will be expected to work seriously and diligently with the materials and tools in class in order to create finished pieces that display excellent craftsmanship. Students are intended to demonstrate continual improvement through the body of finished pieces created throughout the semester.

<u>Skilled Arts I & II – 5109, 5110</u>
Learn how to work with various skilled arts mediums including woods, metal, leather and possibly more.Create unique well-crafted functional or wearable pieces. Using metal you may have the opportunity to try techniques such as etching, riveting, hammering, wire forming, cutting and more. Work with copper, nickel, leather and more.Have fun while learning unique skills that are timeless! Learn about the history of metal work through viewing and discussing pieces created by both contemporary and historical artists and craftsmanship. Using the medium of wood you may have the chance to explore carving and wood burning techniques, through a variety of projects that are intended to build skill and craftsmanship. Create products that you can be proud of through planning, practice, and execution. Improve ability to observe attention to detail, build precision work skills, and persevere from start to finish with every project. Through experiences and project creation you will refine and enhance your skills while building a good work ethic.
Length: 1 semester, Credit: ½, Level: 11-12, Prerequisite: None, Fee for supplies

<u>Ceramics I & II – 5111, 5112</u>
In ceramics I and II you will use clay to create unique 3D pieces, both functional and decorative in nature. Through learning and practicing basic hand building techniques such as slab, coil, pinch, modeling, and carving you will create finished pieces based on a wide range of topics and functions. For example, you might make mugs, tea pots, plant-holders, sculptural pieces or containers of all sorts or pieces that are intentionally decorative or sculptural in nature. You will develop ideas and create artworks based on themes or topics presented. After learning hand building techniques, you will have the opportunity to attempt the potter's wheel. In addition to learning building and forming techniques, you will make choices as to how to decorate your pieces using glazes, paints, or other experimental techniques to add color and life to your finished pieces. If you love ceramics I & II you can continue creating more individualized pieces in studio art class!
Length: 1 semester, Credit: ½, Level: 11-12, Beginner & Intermediate, Prerequisite: None, Fee for supplies

<u>Advanced Ceramics I & II – 5111, 5112</u>
In this course, you will have the opportunity to use skills and knowledge of the various techniques learned in Ceramics I & II to create well crafted and visually interesting 3-dimensional ceramic pieces using both hand building and wheel throwing techniques. Projects created will be similar in nature to ceramics I & II however students will develop ceramics pieces with more independence and at an advanced level to create sculptural, or functional pieces that demonstrate excellent craftsmanship. This course is for students who have taken Ceramics I & II their junior year and will then have the option of taking either one or two semesters of advanced ceramics.
Length: 1 semester, Credit: ½, Level: 11-12, Beginner & Intermediate, Prerequisite: None, Fee for supplies

<u>Digital Arts Courses</u> - Digital arts courses are designed to allow students explore art and design through digital media and software as opposed to traditional media. Many students prefer this method to traditional styles of art, however it is not necessarily "easier". All courses start at beginner level and no prior knowledge is necessary. These courses are excellent for gaining skills for 21st century learners, and a lot of fun. At the completion of the course students will have gained or refined skills that can prove to be very useful to a student's future endeavors. Many students take these courses simply because it is fun to try something new or get better at something they already enjoy, such as digital illustration or photography.

<u>Digital Arts I & II – 5113, 5114</u>
These courses are a combination of previously offered digital arts courses including Graphic Arts , Digital Illustration & Digital Photography. Visual and graphic imagery are vital components to how we communicate and identify ourselves in today's culture. Learn how to visually communicate effectively while creating some really amazing, and unique images or designs! This course is designed to familiarize

students with Graphic Arts processes & technology, Digital Drawing/Illustration techniques, as well as basic Digital Photography & composition skills. You will develop ideas, create designs and execute an assortment of projects using both computer software and traditional composition methods. Emphasis will be placed on learning basic elements and principles of graphic design, understanding lighting, color , & composition in photography, and understanding form, depth, posture, and expression in digital illustration. In doing, so you will create drawings, compositions, and layouts that visually communicate to an audience. You will become familiar with artistic techniques, learn pertinent vocabulary, as well as explore a variety of tools and media that can assist in developing communicative artwork. Basic knowledge will be acquired for the following areas of concentration; computer graphics software, digital photography, color theory, layout, composition, illustration and typography.
Length: 1 semester, Credit: ½, Level: 9-12, Prerequisite: None, Fee for supplies

FOREIGN LANGUAGES
We study a foreign language so that we can understand another group of people in this world of ours - this world that is daily becoming smaller. Much of the culture and the beauty of the world is expressed by men and women of other countries. Foreign Language is considered a college prep course. Seniors will not be permitted to begin a language unless there is space available.

Spanish I - 5305
In the first year of Spanish, one learns to pronounce the new language, to count and to tell time. One learns enough language and vocabulary sufficient to make oneself understood. Geography is included in the year's work. Emphasis is placed on basic grammar during the first year.
Length l year, Credit 1, Level 9-12, Prerequisites: “B” in English, no fee.

Spanish II - 5306
Comprehension of works and grammar is the first step toward effective expression in that language. Therefore, the grammar taught is more explicit and exact. Since the language of a people is closely linked with its culture, its study serves as an introduction to a different civilization. At the completion of two years of Spanish study, Spanish should be read, simple composition correctly written, and some of the economic, cultural and political life of its inhabitants understood.
Length l year, Credit 1, Level 10-12, Prerequisites: “B” in Spanish I, no fee.

Spanish III - 5307
A third year student should have a basic understanding of the Spanish language. The year will be spent building on the grammar and vocabulary skills which will enhance the ability to converse. Also, a more in-depth look into Hispanic culture will be explored. Offering depends on enrollment.
Length l year, Credit 1, Level 11-12, Prerequisites: “B” in Spanish II, no fee.

Spanish IV - 5308
Continuation of Spanish into the fourth year. Extensive grammar, vocabulary, and writing will be the focus of this course. The culture of Spanish speaking countries will be researched. Offering depends on enrollment.
Length l year, Credit 1, Level 12, Prerequisites: “B” in Spanish III, no fee.

HEALTH AND PHYSICAL EDUCATION
All freshmen and sophomores are required to complete one semester of physical education each year. Each semester of physical education is worth 1/4 credit. All sophomores are required to schedule Health for one semester. One semester of Health is worth 1/2 credit. These combined courses, a total of l.00 credit, are requirements for graduation.

Physical Education (9&10) - 5401
The required Physical Education program will provide each student with an opportunity to develop skills and acquire an appreciation for activities that will be beneficial to him. The program will assist in the fulfillment of the following objectives:
l. To promote physical growth and development through activities that develop skills, strength and coordination.

2. To contribute to the development of good social habits such as cooperation, competition, tolerance and character.
3. To promote emotional development through activities which permit the student to relax, gain confidence, poise, and self adjustment.
4. To provide healthful and integrating recreation for the present and future.
5. To promote healthful living through good health habits such as proper exercise, body care and cleanliness.
6. To introduce students to activities which may be performed after graduation from high school, such as volleyball, golf, and archery.
7. To have fun through activities.

Freshmen and Sophomores are required to have one semester of Physical Education to emphasize skills and basic fundamentals of the various activities. Activities that may be offered each year include: Basketball, Badminton, Flag Football, Golf, Racquetball, Speed Ball, Track and Field, Softball, Volleyball, Soccer, Games, Physical Fitness, Conditioning Exercise, Weight Lifting, Jogging, Archery, and Physical Fitness Testing.
Length: l semester, Credit: ¼, Level: 9-10, Prerequisites: none, no fee.

Health - 5403
The purpose of this required course is to provide the students with a solid background in first aid, personal health, and an awareness of the many health-related problems in the United States and current health trends. The course is divided into two parts: textbook topics and health topics of current interest to the students.
Length: l semester, Credit: ½, Level: 10, Prerequisites: none, no fee

LANGUAGE ARTS
Four credits in Language Arts are required for graduation. English 9, l0, 11 and 12 are yearlong courses earning one credit; all other courses are one semester in length and earn one-half credit. Required Courses are English 9, l0, 11 and 12.

English 9 - 1001
This course will focus on strengthening a variety of oral and written skills, while students strengthen their ability to analyze literature in a variety of genres. Students will read an assortment of short stories, poems, novels, dramas and essays. The course teaches students to closely read and analyze literature from a variety of time periods. Students will also broaden their writing skills by examining exemplary works by a variety of authors. During the writing process students will use in depth planning, organizing, drafting, revising, proofreading, and giving feedback to enhance their writing assignments.
Length: l year, Credit: 1, Level: 9, Prerequisites: none, Fee for supplies

English 10 - 1003
This course provides a study of the English language through literature and composition, with a concentrated review of the fundamentals of English usage. The purpose of this course is to provide the student with a solid background in the discipline of writing controlled compositions, develop reactions to literature and strengthen reading comprehension abilities. A review of reference materials and on-line research skills is incorporated into the class curriculum. The writing of a research paper is a requirement for this course.
Length: l year, Credit: 1, Level: 10, Prerequisites: English 9, Fee for supplies

American Literature -1005
This year-long course is designed to deal with the major writers and works of American Literature. Students will consider major social and political issues of American life as reflected in poetry, fiction, nonfiction, plays, and films. Students will examine philosophies that pervade American thought with emphasis on the relationship between literature and the growth of the United States.
Length: l year, Credit: 1, Level: 11 Prerequisites: English 9 & English 10

British Literature - 1007
This semester course provides a generalized overview of British Literature from the Anglo-Saxon Era to the modern day. It covers major works of fiction, non-fiction, poetry, and drama and introduces students to the historical context, author's influence, and literary impact of the works.
Length: 1 semester, Credit: ½, Level: 12 Prerequisites: English 9, English 10 & American Literature

Everyday ELA - 1014
This semester course will address the basics of speaking, reading, writing, and finding information with the intention of increasing proficiency in skills related to home, community, consumerism, and health. Students will be presented with different real-life forms and situations for students to model.
Length: 1 semester, Credit: ½, Level: 12 Prerequisites: English 9, English 10 & American Literature

Mystery and Mayhem - 1010
Over the course of one semester, Mystery and Mayhem will examine the history of crime in North America as a narrative form from the colonial period to modern time. The particular strain of American non-fiction that we will consider over the course of the semester has been recently termed "True Crime," distinguishing it from the abundance of fictional crime narratives. This class will trace the roots of this non-fiction from Puritan execution narratives to Truman Capote's In Cold Blood and more recent true crime podcasts, all the while, analyzing the changing intellectual landscape over the last 300 years surrounding questions of gender, class, race, and morality in relation to crime.
Length: 1 semester, Credit: ½, Level: 9-12 Prerequisites: none

Communications for In-Person and Online Platforms - 1013
This course focuses on traditional and formal methods of communication used in society today. Through the study of communication, students will consider how communication may impact their future careers. In addition, students will learn how to prepare for interviews, create resumes, and utilize digital marketing and communication tools.
Length: l semester, Credit: ½, Level: 9-12, Prerequisites: none

Poetry-1008
This course provides an introduction to the pleasures and insights of poetry. The course will concentrate on the analysis and study of poetry and its forms which will include work from diverse cultural backgrounds. Students will have the opportunity to write a variety of poetry and present their work to others. Students will be required to participate in discussion and presentations.
Length: 1 semester, Credit: ½, Level: 10-12, Prerequisite: none

Mythology – 1009
The study of mythology is designed to familiarize the student with the background of Western man's literary, aesthetic and philosophical development. This course consists of an intensive study of ancient myths.
Length: 1 semester, Credit: ½, Level: 9-12, Prerequisites: none

Independent Reading - 1011
This is an independent study course that will not meet during a traditional class period. The student will select and read books tailored to his/her interests from a variety of genres. Students will be required to read a minimum of two books per nine weeks, keep a reading journal, and complete a final project for each book.
Length: 1 semester, Credit: ½, Level: 10-12, Prerequisites: none

ELA II – 1012
This course is designed for students who need additional practice passing the ELA2 test in order to graduate. The focus will be identifying literary devices within reading passages and responding to essay questions using textual evidence. Students will be guided through in depth writing instruction which

includes planning, organizing, drafting, revising, and proofreading their material. This course is by recommendation of teacher or Guidance department.
Length: 1 semester, Credit: ½, Level: special permission, Prerequisites: English 10

MATHEMATICS
Students are required to take four credits of mathematics for graduation. The math department has established the sequence of courses that should be followed:

- Algebra I
- Geometry
- Algebra II / MMR
- College Algebra OR CCP Algebra for Calculus / CCP Trigonometry
- Calculus/ AP Calculus

An incoming freshman may begin this sequence based upon the recommendation of his/her eighth grade math teacher. After each course, the student must progress to a higher level course. The recommended sequence is to take Algebra I, then Geometry followed by Algebra II. Algebra I taken in the 8th grade is for high school credit and figures into the cumulative grade point average and will be on the high school transcript. In some cases, if a student has not taken Algebra I their 8th grade year and has a strong desire or need to take Calculus by the time they graduate, they may take Geometry and Algebra II simultaneously their sophomore year. This may be permitted only if the student has an A for the final grade in Algebra I and the recommendation of the Algebra I teacher.

Algebra I - 2003
This beginning course in Algebra helps the student to understand the basic structure of Algebra (the real number system), to recognize the techniques of algebra as reflections of this structure, to acquire facility in applying algebraic concepts and skills, and to perceive the rule of deductive reasoning in algebra and to appreciate the need for precision of language. The student not only learns the usual skill in algebra, but also grows in his understanding of the nature of mathematics and in his ability to grasp mathematical ideas.
Length: l year, Credit: 1, Level: 9-10, Prerequisites: none. A scientific calculator is a requirement for this class. A TI 30 XSIIS would be the recommended calculator.

Geometry – 2004/2008
This course in modern geometry acquaints the student with a thorough knowledge of the basic structure of geometry. Students develop powers of spatial visualization while building their understanding of geometric figures. Students develop an understanding of the deductive reasoning method. Through applications and measurements, students use and strengthen their algebra skills. Geometry offers students many opportunities to explore geometric situations, develop conjectures and prove conjectures using a variety of methods.
Length: l year, Credit: 1, Level: 9-10, Prerequisites: Algebra I

Algebra II - 2005
This course reviews and builds on concepts learned in Algebra I and Geometry. One major study of this course is functions and their graphs, with an emphasis on polynomial, rational, exponential, and logarithmic functions. Sequences, series, and trigonometric functions are also studied. A scientific calculator is a requirement for this class. A TI-30XS MultiView Scientific Calculator is the recommended type of calculator.
Length: l year, Credit: 1, Level: 10-11, Prerequisites: Algebra I, Geometry, and a TI-30XS MultiView Scientific Calculator

Honors Algebra II-2013
This rigorous honors course delves deeply into the fundamental principles of Algebra, extending upon the foundational knowledge acquired in Algebra I and Geometry. Students will explore functions and their graphical representations, with a special focus on polynomial, rational, exponential, and logarithmic functions. Additionally, investigations into sequences, series, and trigonometric functions will challenge students to develop a deeper understanding of mathematical concepts. Mastery of these

topics will be facilitated through intensive problem-solving and analytical reasoning. A TI-30XS MultiView Scientific Calculator is the recommended type of calculator. Graphing calculators will not be permitted.
Length: l year, Credit: 1, Level: 10-11, Prerequisites: Algebra I, Geometry, and an A average in both Algebra I and Geometry or teacher approval. Resources: TI-30XS MultiView Scientific Calculator

Mathematical Modeling and Reasoning (MMR) -2007
The Mathematical Modeling and Reasoning (MMR) course is an advanced quantitative reasoning course. Quantitative Reasoning (QR) is the application of basic mathematics skills, such as algebra, to the analysis and interpretation of quantitative information (numbers and units) in real-world contexts to make decisions relevant to daily life. Critical thinking is its primary objective and outcome. It emphasizes interpretation, representation, calculation, analysis/synthesis, assumptions and communication.
Length: l year, Credit: 1, Level: 11-12, Prerequisites: Algebra I, Geometry. A scientific calculator is a requirement for this class.

College Algebra – 2012
This course is designed to help prepare students to succeed in college mathematics. Concepts in Algebra I and Algebra II will be reexamined and reinforced. It is recommended that students who are pursuing a career that is math based take Advanced Math instead of this course. Students that plan on taking Calculus must take Advanced Math. This class is not approved by the NCAA as a core course. A scientific calculator is a requirement for this class. A TI-30XS MultiView Scientific Calculator is the recommended type of calculator.
Length: 1 year, Credit: 1, Level: 12, Prerequisite: Algebra II and a TI-30XS MultiView Scientific Calculator.

CCP Algebra for Calculus – MATH 11010
The course includes an extensive and rich immersion into the structure of functions. Routine analysis includes discussion of domain, range, zeros, general function behavior (increasing, decreasing, extrema, etc.). Operations with functions, including addition, subtraction, multiplication, division, composition and inversion. Functions are studied as a tool to analyze rates of change in real-world scenarios. Emphasis is on linear, polynomial, exponential and rational functions, with an extensive problem-solving component.
Length: 1 Semester, Credit: 1, Level 11-12, Prerequisites: Algebra II, minimum 55 ALEKS math score, G.P.A. of 3.0, and a TI-84 graphing calculator.

CCP Trigonometry – MATH 11022
Solution of triangles, trigonometric equations, and identities.
Length: 1 Semester, Credit: 1, Level 11-12, Prerequisites: Minimum C grade in Algebra for Calculus and a TI-30XS scientific calculator.

Calculus / AP Calculus – 2009
Calculus is the branch of mathematics that deals with rates of change and motion. One major question calculus answers is the rate at which a variable quantity is changing at a given instant. Overall, the course will explore the two pillars of calculus, which are differential calculus and integral calculus.
Length: l year, Credit: 1, Level: 12, Prerequisites: Advanced Math and a TI-83 graphing calculator.

MUSIC
Waterloo High School's music program offers students a fine arts credit while providing a school experience unlike any other. Performance-based courses include Instrumental Music, and Color Guard. There is one non-performance course: Music Appreciation. Active engagement in our music courses provides students with background to:

- demonstrate knowledge and understanding of a variety of music styles and cultures and the context of musical expression or events, both past and present;
- identify similarities and differences between music and other arts disciplines; and
- recognize relationships among knowledge, concepts and skills learned through music with knowledge learned in other curricular subjects.

Instrumental Music - 5701

Instrumental Music is an academic class where students earn one unit of elective credit per year. Members of the band participate in Marching Band during first quarter, and then Symphonic Band in quarters 2,3,4. All students must participate in both portions of the band. The band director may grant exemptions from marching band for reasons of health or religion, that may reduce the credits earned to .75 credit.
Students enrolled in Instrumental Music are expected to attend all summer rehearsals/practices as well as after school practices. An information packet is handed out each spring to outline practice times and performances dates. Marching Band members perform one adjudication and ten football games. There are also numerous community events and parades.
Each year's curriculum is different as it is based on a new show production each year. Skills learned will include, light athletic conditioning (including core exercises, stretching, cardio), marching techniques, and music instruction on their instruments.
Symphonic Band (quarters 2, 3, 4) focuses on standard wind band literature as well as various other musical styles. Students also continue to develop individual instrumental skills, and have the opportunity to play solos and participate in small ensembles. The Symphonic Band performs three school concerts in December, March, May. Additionally, the Symphonic Band performs for school ceremonies and an adjudication in early spring.
Length: 1 yr. Credit: 1, Level: 9-12, Prerequisites: previous school band experience or director approval.

Color Guard/Marching Band – 5702

Color guard members of Waterloo High School learn a basic introduction to dance technique: Body movement, ballet positions, stretching and calisthenics, movement and transitions across a field. Various dance styles including jazz, lyrical, and ballet are included as well as flag and rifle technique and baton. Color guard members perform one competition and ten football games. There are also numerous community events and parades. Students may audition for color guard/majorette in the spring of each year. Each year's curriculum is different as it is based on a new show production each year. Color guard class members will follow the same course guidelines and responsibilities as the instrumental music course.
Length: 1 semester, Credit: ½, Level: 9-12, Prerequisites: audition/band director approval

Jazz Band

Jazz Band is an academic class where students earn one unit of elective credit per year. This class is intended for students wanting to further their musical abilities and play more advanced repertoire, as well as various styles of Jazz. Students enrolled in Jazz Band are expected to play at each concert in December, March, and May as well as various other community/school events as scheduled throughout the year. Curriculum will change yearly depending on instrumentation, ability levels, and differentiating skills learned in years past. Members of the Jazz Band will learn the basics of Jazz scales, Jazz harmonies, how to improvise, and Jazz and Pop music literature.
Length: 1 year. Credit: 1 Level: 9-12 Prerequisites: previous school band experience or director approval.

Music Theory – 5713

Music Theory is intended to expose students to the fundamentals of reading and writing music. In this class time will be spent exploring many musical notations, their meaning, and how they are used to create a group of sounds which we refer to as music. It may be helpful to have some previous musical knowledge; however this course is intended to be accessible by all students.
Length: 1 semester. Credit: ½, Level: 9-12, Prerequisites: none

Music Appreciation – 5714

Music Appreciation will expose students to a wide array of musical types, styles and genres. It will provide students the ability to talk about, discuss, form opinions on and critique music by analyzing and using the elements of music to support their opinions and critiques. Additionally, there will be units in the semester centered around learning about music and its role and influence on and in our lives. When finishing this course, students should walk away with a fundamental understanding of the elements of music, how those elements combine to create various types of music, and more of an appreciation for the art form that is music.
Length: 1 yr. Credit: 1, Level: 9-12, Prerequisites: none

SCIENCE

Three credits in science are required for graduation. Students who will continue beyond the three required credits are recommended to take one of the sequences listed below. Science courses include: Physical Science, Biology, Environmental Science, Zoology, Chemistry, and Anatomy & Physiology.

The recommended sequences of science courses are:

Year	Basic	Advanced	Honors
Freshman	Physical Science*	Physical Science*	Biology*
Sophomore	Biology*	Biology*	Chemistry*
Junior	Environmental Science	Chemistry	Anatomy & Physiology
Senior		Anatomy & Physiology and/or Environmental Science and/or Zoology and/or Physics	Environmental Science and/or Physics and/or Zoology and/or a CCP Science course
Credits	3	4-6	4-6

*Required courses for grade level, based on placement.

Physical Science - 3001

The course is designed to approach science with two main goals in mind. The first goal is to present a variety of topics within the realm of science, drawing on major concepts in physical sciences. The second goal is to develop understanding and skills in problem solving and performing scientific investigations. With balanced emphasis on the product and process of science, the variety of topics, and the interrelationships of scientific principles, the student is provided with a broad practical science knowledge they can relate to in everyday life.

Length: 1 year, Credit: 1, Level: 9, Prerequisites: none, fee for supplies.

Biology - 3002

Biology is devoted to the study of living things. The course is designed to investigate the characteristics of living things, including the levels of organization, heredity, and the diversity and interdependence of life. Topics of discussion include, the origins of life, the cell and cell theory, cellular metabolism, photosynthesis, DNA structure, genetics, classification systems, diversity and adaptation, evolutionary theories, and interactions of living things with each other and their environment. In-depth study will take place in laboratory investigations in which students will use the technical hands-on method to observe basic phenomena of biological importance. Any 9th grade student who takes Biology is required to take Chemistry as a Sophomore.

Length: 1 year, Credit: 1, Level: 9 & 10, Prerequisites: For 9th grade students – an A average in 8th grade science/teacher approval, Fee for supplies.

Environmental Science - 3003

This course is designed to provide the student with a balanced approach to the diversity of our environment. The emphasis is the study of science and the development of thinking and decision making skills. The goal is to provide students with the scientific background needed to analyze for themselves many of the issues concerning our environment.

Length: 1 year, Credit: 1, Level: 11-12, Prerequisites: none, Fee for supplies.

Chemistry - 3004
Chemistry is the study of the structure, properties, and interactions of matter. Students will perform laboratory experiments to supplement chemical principles. A scientific calculator is required for use in this class. Chemistry is a course designed for those students who are interested in the sciences and who plan to major in a science or a science related field in college.
Length: 1 year, Credit: 1, Level: 10-12, Prerequisites: Biology and Algebra I (or permission), Fee for supplies.

Anatomy & Physiology - 3006
Anatomy & Physiology is a course that studies the structure and function of the human body. It involves the study of anatomy, physiological function, and cellular structure of the human species. The course explores the various body systems and incorporates hands-on laboratory assignments. These will include several organ dissections and the dissection of a comparative mammal. This course is more self-directed and is taught as if it were an entry level college course.
Length: 1 year, Credit: 1, Level: 11 & 12, Prerequisites: C in Biology, C in Physical Science or Chemistry, Fee for supplies.

Zoology - 3019
This course will focus on the progressive evolution of modern animals after the Mesozoic mass extinction event that eliminated most dinosaur species. It will explore animal characteristics, body plans, evolution, and relationships. Through videos, labs, simulations, online activities, and dissections, the course will cover the eight invertebrate phyla and the eight chordate phyla. Emphasis is placed on laboratory work and the use of technology to collect and analyze data and create reports and presentations.
Length: 1 year, Credit: 1, Level 11 & 12, Prerequisites: C in Biology, Fee for supplies.

Physics - 3005
Topics include kinematics, forces, energy, momentum, waves, and electricity. This class is recommended for students who have taken or are enrolled in Advanced Math.
Length: 1 year, Credit: 1, Level: 12, Prerequisites: Geometry, Fee for supplies.

SOCIAL STUDIES
Students are required to take three credits of social studies for graduation. The Social Studies Department offers electives to supplement the required courses of World History for all freshmen, American History for sophomores and Government for juniors. Other electives are recommended for all students interested in the social sciences.

World History - 4005
World History is required for all freshmen. The major objective of studying history is to understand the past and develop an understanding of the future. This course will focus on major time periods starting with the Renaissance and includes the Enlightenment, Industrial Revolution, Imperialism, World War I, Great Depression and World War II.
Length: 1 year, Credit: 1, Level: 9, Prerequisite: none, no fee

American History - 4001
American History is a required course for all sophomores. It is an analysis of the events and people of the past who have helped to shape our country as it is today. It covers the exploration and settlement of America to the present time. More emphasis is placed on Reconstruction to the present time. In this way, students should be able to identify themselves with institutions and traditions which have made our nation great and to perform with greater understanding of the responsibilities of democratic citizenship.
Length: 1 year, Credit: 1, Level: 10, Prerequisite: none, no fee.

American Government - 4003
This required junior level course is an analysis of America's political institutions with special emphasis placed on each person's function as part of these systems. This course will focus on knowledge that students need to become a productive and participating member of a greater democratic society. The content will focus on basic principles of government, the Constitution, the legislative branch, the executive

branch, the judicial branch, Civil Liberties, Civil Rights, comparative political systems, comparative economic systems, state and local governments. The personal finance graduation requirement is met through this course.
Length: 1 year, Credit: 1, Level: 11, Prerequisite: none, no fee.

Sociology - 4006
Sociology is a semester course where students will focus on outstanding social problems in society today. Some of the topics that will be covered include, Cultural Diversity, Cultural Conformity, Socialization Adolescence, Ageing and the Mass Media. Students will be required to purchase Newsweek magazine and review current events from a Sociological point of view.
Length: 1 semester, Credit: ½, Level: 11-12, Prerequisite: none, no fee.

Psychology - 4014
This semester course is designed to develop a more objective understanding of individual behavior-why we do the things we do. Some of the topics of discussion include: Psychological Methods, Sensation and Perception, Consciousness, Memory, Psychological Disorders and Methods Of Therapy.
Length: 1 semester, Credit: ½, Level: 11-12, Prerequisite: none, no fee.

History of Rock and Roll – 5711
This course is designed as a study of American Popular music up to the 1970's. We will explore the roots of Rock & Roll including Jazz and the Blues up through popular music of the 60's. We will study music through text, recordings, and multimedia presentations to include video. This course is designed for those with an interest in Pop music. No performance ability is necessary.
Length: 1 semester, Credit: ½, Level: 10-12, Prerequisite: none, no fee

History of Rock and Roll 70's - now – 5712
Students will examine different genres of rock music and how it related to and impacted society. These genres include: Progressive Rock, Classic Rock, Southern Rock, Punk Rock and New Wave, Disco, Hip Hop, Grunge and Nu Metal. Students will be required to do a number of projects and presentations.
Length: 1 semester, Credit: ½, Level: 10-12, Prerequisite: none, no fee

Critical Thinking and Mass Media - 4017
This class will allow students to use the most modern technology and social media platforms to explore the current issues, events, and people impacting our society. This class will be technology based and will focus on research and fact checking. Following the research portion of the class, the students will be introduced to the skills needed to record short informative broadcasts for publishing on the class YouTube channel utilizing Adobe Premier. The class is limited to a maximum of ten students.All students are expected to be willing to be videotaped in any of the following roles: Anchor/Host, Weather Personality, Roaming Reporter, Sports Reporter, Investigative Reporter. Opportunities for individuals to work on video production will be available to students with demonstrable skills in Adobe media applications.
Length: 1 semester, Credit: ½, Level: 10-12, Prerequisite: none, no fee

CAREER AND TECH

Agriculture 101 -
This semester-long course provides students with an introduction to the agriculture industry. Topics include forestry, horticulture, plant life, and animal science. This course serves as an introduction to the 2-year Career Field Pathway sequence in Agriculture.
Length: 1 semester, Credit: ½, Level: 9-12, Prerequisites: none

Ag: AFNR - 010105 (First Course in Career Field Pathway for Agriculture)
This first course in the career field is an introduction to Agricultural and Environmental Systems. Students will be introduced to the scope of the Agricultural and Environmental Systems career field. They will examine principles of food science, natural resource management, animal science & management, plant & horticultural science, power technology and bioscience. Students will examine the FFA

organization and Supervised Agricultural Experience programs. Throughout the course, students will develop communication, leadership and business skills essential to the agriculture industry.
Length: 1 semester, Credit: 1, Level: 11, Prerequisites: none

Ag: Animal & Plant Science - 010125 (Second Course in Career Field Pathway for Agriculture)
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.
Length: 1 semester, Credit: 1, Level: 11, Prerequisites: Ag: AFNR

Ag: Greenhouse & Nursery Management - 010610 (Third Course in Career Field Pathway for Agriculture)
Students will learn the operational practices needed for the successful growth of nursery stock and/or greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation and temperature control. Students will learn pest and disease identification and control along with bio-security practices. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized.
Length: 1 semester, Credit: 1, Level: 12, Prerequisites: Ag: AFNR, Ag: Animal & Plant Science

Ag: Livestock- 010920 (Final Course in Career Field Pathway for Agriculture)
Students will identify and apply principles and routine husbandry practices to production animal populations. Topics will include principles of nutrition, feed utilization, animal welfare, selection and management of facilities and herd populations. Students will apply knowledge of production animal care to enhance animal growth, selection of breeding stock, and management practices. Throughout the course, students will develop management plans reflecting practices for care and legal compliance.
Length: 1 semester, Credit: 1, Level: 12, Prerequisites: Ag: AFNR, Ag: Animal & Plant Science, Ag: Greenhouse & Nursery Management

Career-Based Intervention (CBI) -
The Career-Technical Education Program is designed for students ages grades 9-12 who have barriers to achieving academic and career success. The program's aim is to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan, and participate in a career pathway in preparing for postsecondary education and careers. The CBI program provides a combination of educational and work-based learning opportunities for student success.
Length: 1 year, Credit: 2-3, Level: 9-12, Prerequisites: none

OTHER

Yearbook – 5210
Design layouts for the current yearbook by using Jostens's online software. Students will develop skills with combining text and images in professional layouts. Also work with the digital cameras by taking pictures to be used in the yearbook.
Length: 1 year, Credit: 1, Level: 10-12, Prerequisites: none, no fee

CPR/First Aid – 5404
In this class, you will learn the steps to cardio-pulmonary resuscitation (CPR), earning accreditation if you choose to do so. By learning CPR, we are creating more qualified lifesavers in our communities. Learning CPR enables students to learn these lifesaving skills and become certified in just one semester. This class will also cover the basics of first-aid. Learning first aid techniques can help you cope with an emergency.

You may be able to keep a person breathing, reduce their pain or minimize the consequences of injury or sudden illness until an ambulance arrives.
Length: 1 semester, Credit ½, Level 9-12, Prerequisites: none

Computer Science – 2017
Computer Science introduces students to coding fundamentals through an approachable, block-based programming language where they will have early success in creating usable apps. As students sharpen their computational thinking skills, they will transition to programming environments that reinforce coding fundamentals by displaying block programming and text based programming side-by-side. Finally, students will learn the power of text-based programming as they are introduced to the Python® programming language. The course engages students in computational thinking practices and collaboration strategies, as well as industry-standard tools authentic to how computer science professionals work. Students will learn about professional opportunities in computer science and how computing can be an integral part of all careers today.
Length: 1 year, Credit: 1, Level: 9-12, Prerequisites: none, no fee

Engineering 101 – 2018
Ever wonder what it is like to be an engineer? This course will give an introduction to the thinking and skills it takes to be a successful engineer. We will cover how to think like an engineer about systems, electrical circuits, mechanical systems, technical drawing, making prototypes, 3D printing, geographical information systems and more. This is a very hands on/project based course meant to provide authentic engineering experiences. This course is part of Project Lead the Way and the materials and curriculum for this course were all covered through a grant.
Length: 1 year, Credit: 1, Level: 9-12, Prerequisites: Algebra I, no fee

Lead 4 Change -4008
This Student Leadership Class is a course for students seeking opportunities to expand and deepen their group and individual skills to positively impact their lives and community. Students will work on building collaborative skills and habits of mind, students will gain knowledge and expertise in leadership skills, including goal setting, effective communication, organization time management, and collaborative strategies. Students solve relevant and current school and community issues by working collaboratively and independently on high-level, real-world tasks such as project proposals, portfolios, and presentations. Enrollment based on teacher recommendation.
Length: 1 semester, Credit: ½ , Level 9-12, Prerequisite: none, no fee

Economics & Financial Literacy – 4018 (Required for Graduation)
This course will explore the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. It will also examine the ability of individuals to use their knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Topics covered will include: Economic Decision Making and Skills, Fundamentals of Economics, Government and Economy, Global Economy, Working and Earning, Financial Responsibility and Money Management, Saving and Investing, Credit and Debt, and Risk Management.
Length: 1 semester, Credit: ½, Level: 10-12, Prerequisite: none, no fee

SPECIAL EDUCATION
Special education is for students identified with a handicapping condition. Students must have an active Individualized Education Plan to be eligible for special education assistance. The placement in classes is determined by the IEP. The least restrictive environment will be utilized and placement into the regular education classes will be done. The resource room will be provided as needed.

TAN/Life Skills – 8000/8001
Designed to provide students with organizational and study strategies for their content area classes. Basic Skills for everyday life will also be covered and may include social skills, locating and using resources (i.e. use of phone book, newspaper), banking/checking, job search, applications, and job skills.
Length: 1 year, Credit: 1, Level: 9-12, Prerequisite: IEP

OTHER OPTIONS

Independent Study

Seniors who have demonstrated outstanding academic ability in any area may request independent study as a course selection. A sponsoring teacher must approve such a request and an academic program contract must be completed before any student is permitted to begin a semester of work. Approval of the Principal/ Counselor is required.

These activities are not scheduled through the registration process but require special arrangements each semester with the teacher, coordinator or supervisor. Students can participate in a broad range of clubs and activities. These include:

Extra-curricular		Athletics	
Art Club	National Honor Society	Baseball	Softball
Beta Club	Pep Club	Boys Basketball	Girls Basketball
Chess Club	Quiz Bowl/Acad Challenge	Cheerleading	Wrestling
Class Officers	Ski Club	Boys Cross Country	Girls Cross Country
Climate Club	Student Council	Football	Golf
Drama Club		Boys Soccer	Girls Soccer
Jazz Band		Boys Track & Field	Girls Track & Field