



Maplewood High School
Course Description Guide

A NOTE TO STUDENTS

Class scheduling is a significant factor in determining your high school success. You have reached the point at which you must begin to make the decisions about what courses to take. In addition to your required courses, you will be given the opportunity to select subjects that will influence your future educational and career plans.

Carefully read the information in this booklet. The following suggestions can be helpful:

- Give serious consideration to your future goals.
- After reading the course offerings and descriptions and reviewing your current skill development level and grades, decide upon the program that best fits your needs: college preparatory or career technical
- Review course choices with your teachers, school counselor, and parents.
- Select at least twenty-one credits needed for graduation. Each year your four-year plan should be reviewed and updated.

General Education Progression toward the required Courses

Grade 9	Grade 10	Grade 11	Grade 12
English	English	English	English
Algebra I	Geometry	Algebra II	Trigonometry/College Algebra/ Calculus
Biology	Physical Science	Chemistry	
World History	American History		Government
PE/Tech	PE/Health	Careers/Financial Literacy	
Foreign Language	Foreign Language		
Fine Art	Elective	Elective	Elective

*Required Physical Education Courses will be scheduled in the 9 and 10 school years or as needed through grades 12.

*Students course load will include more than these minimum requirements.

Valedictorian/Salutatorian Selection Valedictorian/Salutatorian Requirements for 2016 and Beyond:

In order to reward academic excellence, a class valedictorian and salutatorian will be chosen. The following guidelines will be used to determine the valedictorian and salutatorian for the graduating class.

Definition of Valedictorian: The graduating senior having the highest grade point average, based upon a 4.00 grading scale at the end of the seventh semester.

Definition of the Salutatorian: The graduating senior having the second highest grade point average, based upon a 4.00 grading scale at the end of the seventh semester.

In case of equal GPAs, a co-valedictorian and or co-salutatorian would be named.

Qualifications:

- A. To be considered as valedictorian/salutatorian, a student must be enrolled as a student at Maplewood High School by the first school day of his or her junior year.
- B. Students must take the following credits:
 1. Honors English/AP English-4 years (Honors/AP English must be taken in the junior and senior year)

2. Mathematics-4 credits (must include 4 of the following: Algebra I, Geometry, Algebra II, Trigonometry or AP Calculus)
3. Foreign Language-3 credits of one foreign language or 2 credits of 2 foreign languages.
4. Science- 4 credits (Must include 4 of the following: Physical Science, Biology, Chemistry, Biology II, Physics, Chemistry II)
5. Social Studies- 4 credits (Must include World History, American History, Government, Civil War, History Today, or AP American History)
6. Fine or Performing Arts- 1 credit
7. Students must take 2 of the 3 AP courses offered at Maplewood High School (AP English, AP History, AP Calculus) their junior/senior year.

Diplomas

Criterion	Ohio Diploma	Academic Honors Diploma	Career Technical Honors Diploma
English	4 Units	4 Units	4 Units
Mathematics	4 units, Algebra I, Geometry, Algebra II, One other higher level math course	4 units, Algebra I, Geometry, Algebra II, One other higher level math course	4 units, Algebra I, Geometry, Algebra II, One other higher level math course
Science	3 Units, including 1 advanced science	4 units, including two units of advanced science.	4 units, including two units of advanced science.
Social Studies	3 units	4 units	
World Languages		3 units, no less than two units of each language studied	
Fine Arts	1 unit	1 unit	

GPA		3.5 on 4.0 scale	
ACT/SAT		27 ACT/1210 SAT	
Additional Assessments	Financial Literacy, 1 unit	N/A	

Honors Diploma: A diploma with honors is a designation set forth by the Ohio Department of Education. A student may earn an honors diploma either by accomplishing additional criteria in the college preparatory curriculum or in the career technical curriculum. A seal is affixed to the student's diploma validating this award.

Graduation and State College and Career Readiness Seals:

Permanent Graduation Requirements 2023 and Beyond

1. Demonstrate Competency: Students must demonstrate competency in math and English by passing the state's algebra I and English II tests. Students who have taken required tests more than once without passing and have received remedial supports are able to show competency through one of the options below:

- Earn credit for one math and/or one English course through College Credit Plus
- Demonstrate career readiness and technical skill through foundational and supporting options;
- Enter into a contract to enlist in the military upon graduation.

2. Preparation for College or Careers: Students must earn two diploma seals, one of which must be state defined, to demonstrate academic, technical and professional readiness for careers, college, the military or self-sustaining professions.

State System of Diploma Seals

OhioMeansJobs Readiness Seal

Honors Diploma Seal

Technology Seal

Industry-Recognized Credential Seal

Citizenship Seal

College-Ready Seal

Fine and Performing Arts Seal (locally defined)

Military Enlistment Seal Student Engagement Seal (locally defined)

Science Seal Community Service Seal (locally defined)

Please go to:

<http://education.ohio.gov/Topics/Ohio-Graduation-Requirements> to see the full details.

Students who take physical science, biology, american history and government as part of Advanced Placement or College Credit Plus can use their scores from the programs end of course exams in place of the state end of course exam scores to accumulate graduation points.

Remediation Free Score:

Students who do not earn the required number of graduation points can still meet the requirements for a diploma if they earn a remediation free score on a national college admission test. This assessment will be given to students free of charge in the fall of their junior year starting with the class of 2018.

Credits

For a student to receive credit for a year's work in a subject, the student must remain in the course for the entire year and have at least a final grade of a "D". ***There will be no one-half credit granted for a full-year one-credit course except in unusual circumstances which would require the approval of the principal.***

No course can be dropped after the 10th school day in the school year. If a course is dropped after the 10th day, a "withdrawn failing" mark will be the final grade for that course.

It is the student's responsibility to make sure that all deficiencies in credits and/or failures are made up. Whenever possible, deficiencies should be made up in summer school. If this is not done, the failed required subject will automatically be rescheduled for the following year.

Class Rank

Class rank is computed beginning with the ninth grade year. Any courses taken for high school credit prior to the 9th grade will not be included in GPA calculations. Each letter grade is worth the following number of points: A's are 4, B's are 3, C's are 2, D's are 1 and F's are 0 points. Grade point average is determined by dividing the number of credits attempted each year into the total points earned. Every subject that receives a letter grade is figured into the students' grade point average. The computer-processed grade point average determines where each student ranks in the entire class. The ranking is based on cumulative points and credits.

Requirements to Progress to the Next Grade Level

Progression to the next grade level is attained by earning credits for successful completion of course. Required credits to progress are: 5

credits to grade 10; 10 credits to grade 11; 15 credits to grade 12 and 21 to graduate. These credits should include required and elective course.

Requirements for requesting double Mathematics Courses (Sophomores) for placement into Calculus (Senior Year)

Occasionally students who were not able to take Algebra I as an 8th grade student will be granted permission to “double up” math courses (Geometry & Algebra II) if it fits into the students schedule as a Sophomore. Students must meet the following criteria to be considered for this placement:

1. Teacher recommendation
2. Completion of a Mathematics placement assessment with a score of 92%
3. Advanced or Accelerated scores on Ohio State testing End of Course Exams
4. Must have maintained a “B” average in Algebra I course

* Students who take the course combo and receive a “C” or lower in the class will be required to repeat the Algebra II course again in their Junior Year.

Schedule Change Requests (adding and dropping courses)

Schedule changes outside the established 10 day window will be reviewed by the administrative and guidance teams. Requests for schedule changes must be made in writing with a parent’s signature and it will then be determined with the student’s teacher the right course of action. Students MAY NOT BE ABLE TO CHANGE their schedule.

ADD- Full Year classes can be added up to the 10th day of school. It is recommended that courses be added prior to the 5th day to prevent unnecessary loss of classroom time.

DROP-A student withdrawing from a course prior to the first 10 days of the school year will not be penalized with a WF on their grade report. Any student withdrawing from a course after the first 10 days of the school year will need parent permission in writing and will receive a “WF” mark on their report card. This will factor into the students GPA.

*Students needing to transition from honors, AP or CCP course into a traditional class will be assisted without penalty with the help of the guidance counselor.

ALL SCHEDULING CHANGES MUST BE ACCOMPANIED BY A PARENT NOTE BEFORE THE CHANGES WILL BE MADE

Eligibility

In order for a student to be eligible for participation in extracurricular and sports related activities the following must be met:

During the grading period immediately preceding participation in the activity, the student must have received passing grades in 5 credit bearing courses. In addition, a student must maintain a 1.5 GPA overall in current coursework to be eligible to participate in sports.

Students taking College Credit Plus courses must be enrolled full time with 5 credit bearing courses to be eligible to participate in sports.

The student must maintain compliance with the student code of conduct and the student must be in attendance ½ day on the day of the event.

NCAA

Students interested in participating in Collegiate Athletics must follow specific criteria set by the NCAA. See your counselor or athletic director for more information. Students should register with the NCAA in their freshman year to log coursework through their senior year.

Log onto www.NCAAClearinghouse.org for more information and to find requirements and registration information.

Special Education

A Student receives special education and related services through the Special Education Department based solely on students' needs identified and documented through the IEP process.

A student's disability category does not determine the type or level of special education services to be provided. This is determined individually through the IEP process. Instructional support may include modifications to the curriculum or accommodations that assist the student in accessing the curriculum. Support is provided in a continuum of environments including but not limited to:

- General education classes
- General education classes with special education support-team taught by a general education teacher and an intervention specialist
- Resource classes- core courses taught by special education staff with modified curriculum
- Small group intervention
- Work Study
- Career Technical opportunities

Educational Options

The Maplewood Board of Education believes that educational options should be made available to all students in the regular program of studies. Because the Board realizes that opportunities, experiences and activities that extend, enhance or supplement legitimate study may lie outside the standard curriculum or the traditional school setting, certain

educational options may be approved subject to this policy, administrator discretion and parent approval.

Educational options are to be used as a means for providing additional or enhanced educational opportunities to individual students, not groups of students. Moreover, educational options are choices elected by the student and his/her parents, which are distinctly different from programming decisions made by school district personnel.

The credit flex committee may approve educational options, which may include;

Credit flexibility through a credit flex application which includes distance learning, independent study, internships, service learning and senior projects.

Career Technical Programs

Maplewood students who have the desire to obtain career technical training during their final two years of high school by attending the Trumbull County Technical Center.

The career center programs offer college preparatory and dual college credit academics in addition to career technical programs designed to prepare students for college and career. Career center programs, students will learn skills hands-on, using industry standard procedures and tools. Opportunities to earn college credits and industry certification are available.

Career center programs are explored during presentations during sophomore classes and opportunities to attend career exploration days are during the fall and winter of their tenth grade year. Students remain Maplewood students and enrolled in their "home school." Students who attend the TCTC are encouraged to still participate and continue extracurricular activities at their home school.

More detailed descriptions of the programs available and courses offered at the TCTC are available online at: <http://www.tctchome.com/>

Not all students who apply to the TCTC are accepted. Important qualities which assist students in gaining admission include:

Good attendance in school

Infrequent tardies to school and to class

Passing grades

Passage of End of Course Examinations

Students planning on enrolling at the TCTC should complete the following course requirements by the end of their sophomore year

Social Studies	2.0
English	2.0
Mathematics	2.0
Science	2.0
Elective Credit	2.0
Health	.50
Physical Education	.50
Passed Next Generation Assessments	3 or higher

Advanced Placement Courses

The Advanced placement Program is a challenging program designated to provide motivated high school students with college level academic courses. AP is considered a standard for academic excellence in the United States, where nearly 90 percent of secondary school participate in the program. AP courses with qualifying exam grades are accepted for credit, advanced placement, or both, by most American colleges and universities. Maplewood currently offers:

AP Language and Composition (Junior Level Course)

AP Calculus (Senior Level Course)

AP American History (Junior Level Course)

College Credit Plus

Ohio's College Credit Plus program can help you earn college and high school credits at the same time by taking college courses from community colleges or universities. The purpose of this program is to promote rigorous academic pursuits and to provide a wide variety of options to college-ready students. Taking a college course from a public college or university College Credit Plus is free. That means no cost for tuition, books or fees. If you choose to attend a private college or university, you may have limited costs.

Your high school may have an agreement with a local college for specific courses, however, you can choose to take College Credit Plus courses from any college that offers a course that would benefit your future. This could include online courses.

Requirements:

If you are an Ohio student in grades 7-12 you can apply for College Credit Plus admission to any Ohio public or participating private college. The college will admit you based on your college-readiness (ACT or SAT scores) in one or more subject areas and your composite scores. The school counselor can help you understand your options, deadlines, and how to proceed. You may not participate in the College Credit Plus program beyond your anticipated high school graduation date. Any student in College Credit Plus also cannot enroll in courses over 30 hours total for the school year including courses at the home school.

Intent to participate forms can be obtained from the school counselor along with additional information about acceptance requirements, participating colleges and course pathways.

Courses available at Maplewood High School include:

CCP English 1550 English Language and Composition	3 S.H.	1 Credit
CCP Math 1510 College Algebra	4 S.H.	1 Credit
CCP Math 1571 Calculus	4 S.H.	1 Credit
CCP STAT 2601 Statistics	3 S.H.	1 Credit

Example: A sample course pathway through Maplewood High School and Youngstown State University:

15 Credit Hour Pathway: Youngstown State University

YSU Course Name and Number	Prerequisite	Location	Credit Hours	High School Requirement
ENG 1550 College Writing I	Placement test	MHS	3	English
STAT 2601 Statistics	Math Placement test	MHS	3	Math
HIST 3717 Constitutional History of the United States		YSU	3	Social Studies
MUHL2621 Music Literature and Appreciation		YSU	3	Fine Art
CMST1545 Communication Foundations		YSU	3	Elective

Total Credit Hours: 15

30 Credit Hour Option (Continuing from above)

YSU Course Name and Number	Prerequisite	Location	Credit Hours	High School Requirement
ENG1551 College Writing II	ENG 1550	YSU	3	Second English Credit
PHY2610 General Physics I		YSU	3	Advanced Science
SPAN 2605 : Advanced Intermediate Spanish	Language Placement Test	YSU	3	Foreign Language
YSU Course Name and Number	Prerequisite	Location	Credit Hours	High School Requirement
MATH 1571 Calculus I	Math placement	MHS	4	Mathematics
DNCE1565 Topics in Dance		YSU	2	Elective

Total Credit Hours: 15= Both Semesters 30 Credit Hours

High School Course Descriptions

The following description of courses contains a listing of all course offerings available at Maplewood High School. Additional information about the courses described is available from the School Counselor. Availability of these courses is variable from year to year and subject to change.

Art

Art I-IV (Fine Art)

Art I is offered to first year art students. No drawing skills are necessary. The course includes projects in painting, sculpture, ceramics and drawing.

Length: 1 year Credit: 1 credit Fee: see Student Handbook
Grades: 9-12 Prerequisite: None

Digital Art (Fine Art)

This course is the perfect prerequisite for any student interested in graphic design, animation, illustration, and photo editing. This course will prepare students for all careers as we move toward a digital world. Students will learn basic techniques to design logos, create digital illustrations, and manipulate photos. This course will also help students

to become more conscientious of customer service through the exploration of critique of various marketing ploys and techniques.
Length: 1 Semester Credit: .50 Grades: 9-12 Prerequisite: None

Industrial Arts

Woods Processes I (Fine Art)

This is the woodworking student's first introduction to power equipment. Safety and proper operation of each machine are stressed. Students are assigned projects to acquaint them with various machine operations. After the project completion, the students are allowed the choice of a project. Lectures and demonstrations are given as needed. Job skills and job-related calculations are stressed.

Length: 1 year Credit: 1 credit Grades: 9-12
Prerequisite: None Fees: see Student Handbook

Woods Processes II (Fine Art)

The students will be allowed to choose a project with the approval of the instructor. Plans must be approved with appropriate paperwork before projects are started. Lectures and demonstrations will be given as problems arise. Students are encouraged to use computers for project preparations.

Length: 1 year Credit: 1 credit Grades: 10-12
Prerequisite: Woods Processes I plus instructor's approval
Fee: see Student Handbook

Woods Processes III (Fine Art)

This course will encompass all the previous skills of woodworking with quality and precision stressed. The same requirements as Wood II with demonstrations and lectures as needed. Students will be free to choose projects and will be encouraged to tackle more difficult problems.

Length: 1 year Credit: 1 credit Grades: 11-12
Prerequisite: Woods Processes II plus instructor's approval
Fee: see Student Handbook

Woods Processes IV (Fine Art)

This course is an advanced woodworking class with more difficult projects being stressed. Students are free to choose projects with the instructor's approval.

Length: 1 year Credit: 1 Credit Grade: 12

Prerequisite: Woods processes III plus instructor's approval

Fee: see Student Handbook

Music

Concert Band (Fine Art)

Concert Band is grades 9-12. Objectives are to broaden the individual student's knowledge of various styles of music through individual and small group participation. Membership in pep band and jazz is determined by audition and current needs in instrumentation and interest. Participation in solo and ensemble contest is also encouraged. Participation in full band district and state (if qualified) is required. Also, all winter, spring and other concert participation and attendance are a requirement.

Length: 1 year Credit: 1 credit Grade: 9-12

Prerequisite: Prior band experience

Choir (Fine Art)

The choir is a performing group that explores various styles of choral music throughout the year. Vocal technique is taught in addition to choral production. The choir presents concerts during the year and also performs at various school and community activities. Requirements to be in the choir are an Interest in singing, Attendance at all performances and rehearsals.

Length: 1 year Credit: 1 credit Grade: 9-12

Prerequisite: prior music experience or audition

Elective Courses

Media Literacy

Media Literacy expands upon existing research and technology skills, and writing and editing skills, to enhance a deeper understanding of the research process. Students also learn about photo editing, copyright law, website evaluation, fake news, internet safety, podcasting, INFOhio resources, Gale databases, note taking, primary and secondary sources, web search strategies, the Dewey Decimal system, referencing, citations and coding. All facets of Google Drive are incorporated and used.

Length: Semester Credit: .50 credit Grade: 9

Photojournalism I and II

Photojournalism I and II are for self-motivated juniors and seniors who want to be part of their school's history through the creation of a yearbook that highlights current seventh through twelfth grade events and activities. Pixlr, a photo-editing website, is used to enhance pictures that are taken with cell phones or the yearbook's camera. The yearbook publisher's website is also used when planning and designing pages for the book. Class time focuses on the importance of teamwork with special attention given to effective communication skills, collaboration and cooperation.

Length: 1 year Credit: 1 credit Grade: 11-12

Prerequisite: None

Astronomy

This course will provide the student with an introduction to the concepts of modern astronomy, the origin and history of the Universe and the formation of the Earth and the solar system. Students will compare the Earth's properties with those of the other planets and explore how the heavens have influenced human thought and action. The course treats many standard topics including planets, stars, the Milky Way and other galaxies, black holes to more esoteric questions concerning the origin of the universe and its evolution and fate. Although largely descriptive, the course will occasionally require the use of sophomore-high level mathematics.

Length: 1 Semester Credit: .50 Fee: See Student Handbook
Grades: 11-12 Prerequisite: None

Outdoor Appreciation

This course deals with many outdoor skills and activities that can be used in a “carry over” situation once the student has graduated. Some of the activities and skills would be as follows: gun safety, proper use of shotguns, archery, tree and plant identification, studying different game animals and habitat, map reading, making fishing lures, fishing, cleaning the environment, and other activities that an interest in class would dictate.

Length: 1 year Credit: 1 credit
Grade: 12

Careers

This course focuses on the development of a career plan which concentrates on career planning, job seeking skills, interviewing, job shadowing and the development of a career passport. Financial literacy component is covered in this course as well.

Length: 1 semester Credit: .50 credit Grade: 11-12
Prerequisite: None

Social Studies

Economics

This course will give the students a greater understanding of economics ranging from the viewpoint of the individual consumer or small business owner to the global economy. The course will study the law of supply and demand, forms of business, labor unions, government finances and influence on the economy, money and prices, inflation and deflation cycles. The course relates history and politics to the study of economics.

Length: 1 Semester Credit: .50 Fee: See Student Handbook
Grades: 11-12 Prerequisite: None

Government

United States government is the study of the American federal system through the examination of government and politics at the national,

state, and local levels. Emphasis is placed upon the individual’s role as an effective citizen by examining the origins, development, organizations, powers, and interaction of governmental agencies within the system. The analysis and evaluation of the general structure and processes of modern governments are also examined. Generalizations of the classroom are related and compared to current events.

Length: full year Credit 1.0 credit Grade: 12
Prerequisite: World History and American History

Psychology

Psychology is the systematic study of individual human behavior and experience. The purpose of this course is to introduce the student to the content, terminology, methodology, and application of the discipline. This survey course contains an introduction followed by four units based on the physiological, cognitive, behavioral, and affective domains of psychology. This elective course stresses the application of academic content to the student’s life.

Length: 1 Semester Credit: .50 Fee: See Student Handbook
Grades: 11-12 Prerequisite: None

Civil War

This course on the Civil War focuses in depth on the events of this period in history. Reports are part of this course.

Length: 1 semester Credit: .50 credit Grades: 11-12
Prerequisite: None

History Today

This course compares events in history to Hollywood productions. Students will discuss historical events and then view the Hollywood version of this event.

Length: 1 semester Credit: .50 credit Grades: 11-12
Prerequisite: None

American History

Classroom discussion and student expression of current issues will be part of the students' study for a more comprehensive understanding of this historical era. The student will learn to understand how and why the present came to be and enrich his or her social, economic, political, and

diplomatic development of understanding of the United States. The course is designed to help students grow a better awareness of citizenship and the figures in the past that shaped our country today.

Length: 1 year Credit: 1 credit Grade: 10
Prerequisite: World History

Honors World History

Honors World History is an in-depth study of world history that begins with the Enlightenment, the French Revolution, the Industrial Revolution, and World War I. The course closes with the rise of totalitarianism in Europe, World War II, and the Cold War. In contrast to the general world history course, Honors requires students to analyze four historical novels, recall physical and political geography of the world, and examine more current political issues and events.

Length: 1 year Credit: 1 credit Grade: 9
Prerequisite: Must have teacher referral and B average or higher GPA

World History

Events in world history in the time period of 1500 to the present are the focus of this course and the predecessor to the modern era. This course provides an overview of the events in the world that shaped the modern era.

Length: 1 year Credit: 1 credit Grade: 9
Prerequisite: None

AP American History

This course integrates political and social history in order to cover the experience of particular groups within the broad perspective of the American past.

Length: 1 year Credit: 1 credit Grades: 11-12
Prerequisite: "A" or "B" in American History and Teacher recommendation.

Mathematics

Applied Algebra I

This course opens with data analysis and relates mathematical ideas and methods to real world situations. This is combined with a systematic

study and manipulation of the relevant mathematical functions and equations found at the core of basic algebra.

Length: 1 year Credit: 1 credit Grade: 9
Prerequisite: None

Algebra I

Algebra I is a basic course in the relationships of numbers developed for students who are planning on any type of post high school education. It is the first course for any student who plans to take additional advanced mathematics in high school.

Length: 1 year Credit: 1 credit Grades: 9-12
Prerequisite: "C" or better from 8th grade math

Applied Geometry

Applied geometry is a course that develops the ability to think creatively and to use different systems of reasoning. The student will develop the ability to use an analytical approach to geometric requirements such as lines, parallels, polygons and circles. Additionally, all students will be introduced to experimental probability, theoretical probability, permutations, combinations, independent events the multiplication rule and conditional probability.

Length: 1 year Credit: 1 credit Grade: 10
Prerequisite: Algebra I (B or better from 8th grade Alg I)

Geometry

Geometry is a course where the student develops the ability to think creatively, develops and uses different systems of reasoning with heavy emphasis on the deductive system, and the ability to reason ideas out. The student will also develop the ability to use an analytical approach to geometric requirements such as lines, parallels, polygons, and circles. Additionally all students will be introduced to experimental probability, theoretical probability, permutations, combinations, independent events and the multiplication rule and conditional probability.

Length: 1 year Credit: 1 credit Grades: 9-12
Prerequisite: Algebra I ("B" or better from Algebra I 8th grade)

Algebra II

Algebra II is a course which develops the topics begun in Applied Algebra I. The topics consist mainly of analytic geometry, complex numbers, logarithms, sequences, series and functions.

Length: 1 year Credit: 1 credit Grade: 11- 12
Prerequisite: Applied Geometry

Honors Algebra II

Honors Algebra II is a course which further develops and elaborates on the topics begun in Algebra I, as well as introducing additional topics. The additional topics consist mainly of analytic geometry, complex numbers, logarithms, sequences, series, and functions.

Length: 1 year Credit: 1 credit Grades: 10-12
Prerequisite: Geometry

Applied Mathematics

Applied mathematics is the last required course in a four-year sequence that concentrates on more advanced content in algebra, geometry, data analysis, probability, and statistics. This course is the last in the applied series of coursework.

Length: 1 year Credit: 1 credit Grades: 12
Prerequisite: Applied Algebra II

**This course does not meet NCAA eligibility requirements*

College Algebra/College Credit Plus

This course most post-secondary institutions require for nearly all incoming freshmen. This course is designed to provide students with a review of concepts introduced in Algebra II, as well as discuss a variety of mathematical areas utilized by various academic majors. This course is a college credit plus course with credit being granted through Youngstown State University. Student may enroll as a YSU student in the College in High School program if they meet the ACT criteria.

Length: 1 Year Credit: 1 Credit Grade: 12
Prerequisite: Algebra II

*CCP requires 27 ACT or YSU Math Placement test

Trigonometry/College Credit Plus Statistics

One semester of this course is devoted to Trigonometry and topics such as exponential, logarithmic, and trigonometric functions, analytical trig and applications of trig.

Semester two of this course is Introductory to Statistics course, where students will be dealing with different branches of stats, including descriptive and inferential stats, probability, and hypothesis testing. Student may enroll as a YSU student in the College in High School program if they meet the ACT criteria.

Length: 1 year Credit: 1 credit Grades: 11-12
Prerequisite: C or better in Algebra II

*CCP requires 27 ACT or YSU Math Placement test

Calculus/College Credit Plus/AP

AP Calculus will deal with limits, functions, rate changes, and other important areas. Differential and integral calculus will be taught. Application will be dealing with rate changes and areas under curves. This course is designed so that students will have a general working knowledge of calculus. Students may enroll as a YSU student in the College in High School program if they meet the criteria from the ACT.

Length: 1 year Credit: 1 credit Grade: 12
Prerequisite: Trigonometry

*CCP requires 27 ACT or YSU Math Placement test

Foreign Language

Foreign language is not a requirement for graduation, but two or three years is usually recommended for college admission. The courses will implement the five goals of the national standards-communication, cultures, comparisons, connections and communities.

Spanish I

This course is designed to introduce and cover the four basic skills of a spoken language which include listening, speaking, reading, and writing. Students will be required to memorize vocabulary words, conjugate present tense and past tense verbs, and apply grammar rules as one

applies rules in the English language in order to speak and read in Spanish.

Length: 1 year Credit: 1 credit Grades: 9-11

Prerequisite: B average in English or recommendation of English teacher.

Spanish II

Spanish II continues to build upon fundamental language skills of the first year. Basic language skills are stressed as well as an introduction to Hispanic culture. More complex skills and tenses of verbs are introduced and used. Vocabulary enrichment, oral work and communication are stressed.

Length: 1 year Credit: 1 credit Grades: 10-12

Prerequisite: "C" or better in Spanish I

Spanish III

Spanish III is designed to further develop the fundamental skills in language use, to place emphasis on the reading and comprehension skills, and to provide an opportunity for self-expression in speaking and writing. The student will be introduced to an advanced composition and conversation.

Length: 1 year Credit: 1 credit Grades: 11-12

Prerequisite: "C" or better in Spanish II

Spanish IV

Spanish IV is an advanced course in Spanish devoted to the study of advanced composition and conversation. Individual projects can be assigned based on students' needs, abilities, and interests.

Length: 1 year Credit: 1 credit Grade: 12

Prerequisite: "C" or better in Spanish III

English Language Arts

English I

English I is a course designed to review grammatical concepts and to introduce new structure. Attention is given to standard usage, good sentence structure, good listening, vocabulary, spelling, and punctuation. Major concepts will be the analysis of literary techniques and types of literature, including the novel. Basic composition skills will be taught and paragraph organization emphasized. Students will be expected to

communicate both orally and written, and to improve listening, thinking, and study skills. Two novels and a Shakespearean play will be studied.

Length: 1 year

Credit: 1 credit Grade: 9

Prerequisite: None

English II

Complex, compound, and simple sentence structure will be studied. The correction of sentence fragments and run-ons will be stressed. Paragraph skills will be reviewed with emphasis on five types of composition-expository, descriptive, narrative, persuasive, and analysis of literature. Reading for comprehension along with an awareness of the various elements of structures of each of the following will be done: short story, novel, drama, nonfiction, and poetry. Critical analysis skills will be developed in fiction and nonfiction. Four novels and a Shakespearean play are required.

Length: 1 year

Credit: 1 credit Grade: 9

Prerequisite: English I

English III

Emphasis will be placed on developing writing skills and literature analysis. Writing skills include sentence combining, sentence patterns, paragraphing, theme development, transitional devices, thesis statements, word choice, summary, outlining and structure. This course provides a survey of American Literature. Focus will be upon analysis of literature and their historical perspective. Novels and dramas will be studied.

Length: 1 year

Credit: 1 credit Grade: 11

Prerequisite: English II

English IV

This course emphasizes the study of classical and popular British and American Literature. The reading and discussions of short stories and nonfiction will receive special attention. Heavy emphasis will be given to the development of student writing skills: narration, description, thesis, comparison/contrast, critical analysis, and character analysis.

Length: 1 year

Credit: 1 credit Grade: 12

Prerequisite: English III

Honors English I

This course is designed for students who are preparing for college. An emphasis is placed on the following skills: vocabulary development, speech presentations, writing the five paragraph composition (including writing the various types: compare/contrast, expository, argumentative, descriptive, and narrative), critical analysis of literature, grammar, usage, and mechanics. The literary genre will be taught in depth: short story, novel, drama, poetry, and nonfiction. In depth analysis of eight novels and a Shakespearean play will be studied.

Length: 1 year Credit: 1 credit Grade: 9

Prerequisite: "B" in eighth grade English

Honors English II

Advanced English II consists of literary analysis skills developed through the study of short stories, nonfiction, novels, drama, and poetry.

Grammar skills will be strengthened in multiple writing assignments. Students will develop critical thinking skills, apply knowledge to writing, conduct mini-research writing projects, and gain a fundamental understanding of literature and writing. In-depth analytical essays are written and a minimum of five compositions are required; at least six novels are read throughout the year and a drama.

Length: 1 year Credit: 1 credit Grade: 10

Prerequisite: Honors English I "B" average

**If transferring from a non-honors course, student must have an "A-B" average and teacher recommendation. Parent approval must be submitted in writing.*

Honors English III

Juniors based upon grades and teacher recommendations will take this course as part of their college preparatory sequence. Emphasis will be placed on advanced writing skills and the chronological study of American literature. Students will enhance skills in essays, literature, critical analysis, compositions, and college research. In addition to Americanisms, students will read eight novels and one drama focusing upon historical significance, character development, and the tone of American authors.

Length: 1 year Credit: 1 credit Grade: 11

Prerequisite: Honors English II "B" average

**If transferring from a non-honors course, student must have an "A-B" average and teacher recommendation. Parent approval must be submitted in writing.*

Honors English IV/ College Credit Plus-English 1550

Honors English IV provides a chronological understanding of cultural, linguistic development of the English language through study of Anglo-Saxon, Medieval, and Modern English periods. Students will read samples of these periods and be required to focus on the major literary figures of Chaucer and Shakespeare. Writings will include essay-style responses to show interpretation of read material and compositions to prove a variety of literary themes. Interpersonal skills will be honed through class discussion, weekly dilemma debates, individual speeches, and group presentations. Students will develop voice and style from not only formal writings but also from personal reflections and responses through journaling. Students will focus on completing an expository writing portfolio containing a representation of various rhetorical strategies helpful in collegiate composition classes. A research project using Modern Language Association guidelines and American Psychological Association (APA) guidelines will be completed. In Semester II, student will write 5000 words. Student may enroll as a YSU student in the College in High School program if they meet the criteria from the ACT.

Length: 1 year Credit: 1 credit Grade: 12

Prerequisite: Honors English III *Class limit may apply

**If transferring from a non-honors course, student must have an "A-B" average and teacher recommendation. Parent approval must be submitted in writing.*

AP English Language and Composition IV

AP English Language and Composition engages students to learn to understand and analyze complex styles of writing by reading works from a variety of authors. Students will explore the richness of language, including syntax, imitation, word choice, and tone primarily in the context of nonfiction text. Students will also learn about their own composition style and process, starting with exploration, planning, and writing and continuing through editing, peer review, rewriting, polishing, and applying what they learn to a breadth of academic, personal, and

professional contexts. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in communications, creative writing, journalism, literature, and composition. There may be summer assignments.

Length: 1 year Credit: 1 credit Grade: 12

Prerequisite: "A's" and "B's" in Honors English and teacher recommendation.

Physical Education

Physical Education I

To provide a comprehensive program that continues to develop physical and mental skills in team games and individual activities. A fitness program introduced that includes instruction and use of the fitness center's weight machines and aerobic area.

Length: 1 semester Credit: .25 credit Grade: 9

Prerequisite: None

Physical Education II

Instruction includes a continuation of skills developed in Physical Education I. This course will provide the opportunity to increase the sophistication level of sports and fitness activities. The fitness program that includes the use of the weight machines and aerobic area in the fitness center will be continued through PE II.

Length: 1 semester Credit: .25 credit Grade: 10

Prerequisite: Physical Education I

Health Education

Instruction includes the topics of mental health, stress management, human physiology, various communicable and non-communicable diseases, digestion, nutrition and associated areas of study. The students are also required to do individual research of today's health problems and may write a paper concerning that subject. Outside research for health related magazines, newspaper, or internet articles may be required.

Length: 1 semester Credit: .50 credit Grade: 10

Prerequisite: None

Science

Biology

Biology is a general life science course. The course will include a review of the scientific method, an introduction to biochemistry, a study of cells and cellular processes, DNA and cell division, basic genetics, and evolution. If time allows, Biology will also cover ecology, bacteria and viruses, and an introduction to genetic engineering. Inquiry based labs, including a grasshopper dissection, will be utilized to supplement learning. Students enrolled in Biology will take the EOY Biology AIR test in the spring.

Length: 1 year

Credit: 1 Credit

Grade: 9

Prerequisite: completion of General Science 8

Honors Biology

Honors Biology will study biochemistry (including the four specific types of biochemical molecules), a study of bacteria and protists, a study of cells and cellular processes, DNA and cell division, advanced genetics (includes dihybrid crosses and in depth coverage of Non-Mendelian inheritance), Genetic engineering techniques and its uses, and evolution. Honors Biology is faster paced and consists of more in depth coverage of life science topics than Biology. Inquiry based labs, including a starfish dissection, will be utilized to supplement learning. Students enrolled in Honors Biology will take the EOY Biology AIR test in the spring.

Length: 1 year

Credit: 1 Credit

Grade: 9

Prerequisite: "A" or "B" average in General Science 8 is strongly recommended.

Anatomy and Physiology

Anatomy and Physiology will explore the structural and adaptive transitions from invertebrates to vertebrates, a study of the common parasites in our area and worldwide, and the study of the human body systems. Labs will include the dissection of a crayfish, a pig roundworm, a dogfish shark, a grey perch, a grass frog, a rat, and a fetal pig. The first

semester will focus on the different types of animals while the second semester will focus on human body systems.

Length: 1 year Credit: 1 Credit Grade: 11-12

Prerequisite: Successful Completion of Biology I

Physical Science

Physical Science is a basic science course designed to explore the concepts of motion, forces, sound and energy. Second Semester covers basic Chemistry.

Length: 1 year Credit: 1 credit Grade: 10-12

Prerequisite: None

Chemistry

Chemistry is the study of matter, its nature and the changes. The focus of Chemistry I is on general and inorganic chemistry. The course is a comprehensive study of matter, history of atomic theory, atomic structure, electron classification, history and organization of the periodic table, chemical bonding, inorganic chemical nomenclature, chemical reactions, stoichiometry, and structure of states of matter and gas laws.

There are several lab activities that coincide with the various topics. .

Students taking Chemistry I are taking an advanced science course.

Therefore, students are not permitted to take physical science after taking Chemistry I.

Length: 1 year Credit: 1 credit Grade: 10-12

Prerequisite: Algebra I (C average for juniors, B average for sophomores)

Chemistry II

Chemistry II into topics that were not covered in Chemistry I and goes further depth with topics introduced from Chemistry. New areas of investigation will include: aqueous solution chemistry, colligative properties, acid and base theory and titration reaction energy and thermodynamics, electrochemistry, and introduction to organic chemistry; nomenclature and reactions.

Length: 1 year Credit: 1 credit Grade: 11-12

Prerequisite: Chemistry I (C or better)

Physics

Physics is the study of matter and its motion and behavior through space and time, along with related concepts such as energy and force. Topics will be covered both conceptually and qualitatively (Algebra/Trig. based) and will include motion in one-dimension and two-dimensions, forces, work and energy, momentum, rotational kinematics, oscillating kinematics, waves, energy, and sound.

Length: 1 year Credit: 1 credit Grade: 11-12

Prerequisite: Trigonometry (can be concurrent)