John Glenn High School

Curriculum Guide
2021-2022

JOHN GLENN HIGH SCHOOL
CURRICULUM GUIDE
AND
REGISTRATION GUIDE
2021-2022

This booklet contains information about the courses offered at John Glenn High School and the procedures for class registration for 2021-2022. It is the privilege of the student and his or her parents to choose appropriate courses to meet the student's needs and the school's requirements. A carefully planned high school course of study will guide you into a college or work training program and ultimately the career of your choice. The student and parents should read this book carefully, and decide together which courses to include on the registration form for 2021-2022. This book can be retrieved either in Google Classroom or at www.eastmschools.org.

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JOHN GLENN HIGH SCHOOL COURSE REQUIREMENTS FOR GRADUATION CLASSES OF 2021 AND BEYOND	
SUBJECT	**REQUIRED CREDITS**
English	4 Credits
Health	½ Credit
Mathematics	4 Credits, which shall include Algebra II or the equivalent of Algebra II
Physical Education	½ Credit
Science	3 Credits, which shall include one credit of Life Science and one credit of Physical Science **and** advanced study in one or more of the following: Anatomy, Biological Anthropology, Chemistry, Ecology, Forensics, Physics, or Zoology
Social Studies	3 Credits
Elective	6 Credits, Elective units must include one or any combination of world language, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education or English language arts, mathematics, science or social studies courses not otherwise required.
Fine Arts	Two semesters taken any time in grades 7-12.
Economics & Financial Literacy	Must receive instruction in grades 9-12. This will be covered in Government class.
Total	21 Credits

Life Sciences: Anatomy/Physiology, Biological Anthropology, Biology, Ecology, Environmental Science, Zoology

Physical Sciences: Chemistry, AP Chemistry, Forensic Science, Physics, Physical Science

Business: Accounting I, Accounting II, Financial Literacy, General Business, Microeconomics, Business Administration Strategic Management

Foreign Language: French, Spanish

Fine Arts: Any Music, Any Art, Photography, Computer Graphics I and II, Digital Media

Technology: Computer Aided Design, Computer Graphics, Intro to Programming, Digital Media, Computer Building and Repair, Robotics, Agricultural and Environmental Systems Capstone

**Detailed Graduation Pathway information follows on pages 2-5.

Ohio's High School Graduation Requirements

Classes of 2021 and 2022

Before you know it, you'll be receiving your high school diploma. Ohio is giving you new ways to show the world what you can do with it.

As a student entering ninth grade between **July 1, 2017** and **June 30, 2019**, Ohio's new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions – one that ensures you are ready for your next steps and excited about the future.

Cover the basics

You must earn a minimum total of 20 credits in specified subjects and take your required tests. Then, decide how you will round out your diploma requirements.

English language arts	4 credits
Health	½ credit
Mathematics	4 credits
Physical education	½ credit
Science	3 credits
Social studies	3 credits
Electives	5 credits

Other Requirements
You also must receive instruction in economics and financial literacy and complete at least two semesters of fine arts. Your district may require more than 20 credits to graduate.

You have the option to show you are ready by meeting the **original three graduation pathways** below that were available when you entered high school.

Show you are ready

Use at least one pathway to show that you are ready for college or a job.

1. Ohio's State Tests

Earn at least 18 points on seven end-of-course state tests. End-of-course tests are:

Algebra I or Integrated Math I
Geometry or Integrated Math II
American Government
American History
English I
English II
Biology

Each test score earns you up to five graduation points. You must have a minimum of four points in math, four points in English and six points across science and social studies. Your school and district receive grades on the Ohio School Report Cards for all students' scores and participation on state tests.

OR

2. Industry credential and workforce readiness

Earn a minimum of 12 points by receiving a State Board of Education-approved, industry-recognized credential or group of credentials in a single career field and earn the required score on WorkKeys, a work-readiness test. The state of Ohio will pay one time for you to take the WorkKeys test.

OR

3. College and career readiness tests

Earn remediation-free scores in mathematics and English language arts on either the ACT or SAT.

The Ohio Department of Higher Education works with Ohio's universities to set the remediation-free scores for the ACT and SAT tests. Periodically, for a variety of reasons, these scores may be adjusted. For all high school juniors, the remediation-free scores set by Feb. 1 of their junior year will be used to meet their graduation requirement. The most up-to-date information regarding remediation-free scores can be found on the Department's graduation requirements webpage.

OR

(see reverse side)

You can meet **new requirements** by demonstrating competency and readiness for a job, college, military or a self-sustaining profession.

Show competency

Earn a passing score on Ohio's high school Algebra I and English II tests. Students who do not pass the test will be offered additional support and must retake the test at least once.

Is testing not your strength? After you have taken your tests, there are three additional options to show competency!

Option 1.

Demonstrate Two Career-Focused Activities*:

Foundational

Proficient scores on WebXams

A 12-point industry credential

A pre-apprenticeship or acceptance into an approved apprenticeship program

Supporting

Work-based learning

Earn the required score on WorkKeys

Earn the OhioMeansJobs Readiness Seal

*At least one of the two must be a Foundational skill

Option 2.

Enlist in the Military

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

Option 3.

Complete College Coursework

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

AND

Show readiness

Earn two of the following diploma seals, choosing those that line up with your goals and interests. These seals give you the chance to demonstrate academic, technical and professional skills and knowledge that align to your passions, interests and planned next steps after high school.

At least one of the two must be Ohio-designed:

- ☐ OhioMeansJobs Readiness Seal (Ohio)
- ☐ Industry-Recognized Credential Seal (Ohio)
- ☐ College-Ready Seal (Ohio)
- ☐ Military Enlistment Seal (Ohio)
- ☐ Citizenship Seal (Ohio)
- ☐ Science Seal (Ohio)
- ☐ Honors Diploma Seal (Ohio)
- ☐ Seal of Biliteracy (Ohio)
- ☐ Technology Seal (Ohio)
- ☐ Community Service Seal (Local)
- ☐ Fine and Performing Arts Seal (Local)
- ☐ Student Engagement Seal (Local)

Want to learn more? Contact your school counselor or visit education.ohio.gov/graduation

Ohio's High School Graduation Requirements

Classes of 2023 and Beyond

It's Your **Future.** Get **Ready.**

Before you know it, you'll be receiving your high school diploma. Ohio is giving you new ways to show the world what you can do with it.

As a student entering ninth grade on or after **July 1, 2019**, Ohio's new high school graduation requirements give you more flexibility to choose a graduation pathway that builds on your strengths and passions – one that ensures you are ready for your next steps and excited about the future.

First, cover the basics

You must earn a minimum total of 20 credits in specified subjects and take your required tests. Then, decide how you will round out your diploma requirements.

English language arts	4 credits
Health	½ credit
Mathematics	4 credits
Physical education	½ credit
Science	3 credits
Social studies	3 credits
Electives	5 credits

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You also must receive instruction in economics and financial literacy and complete at least two semesters of fine arts. Your district may require more than 20 credits to graduate.

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Earn a passing score on Ohio's high school Algebra I and English II tests. Students who do not pass the test will be offered additional support and must retake the test at least once.

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

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

Third, show readiness

Earn two of the following diploma seals, choosing those that line up with your goals and interests. These seals give you the chance to demonstrate academic, technical and professional skills and knowledge that align to your passions, interests and planned next steps after high school.

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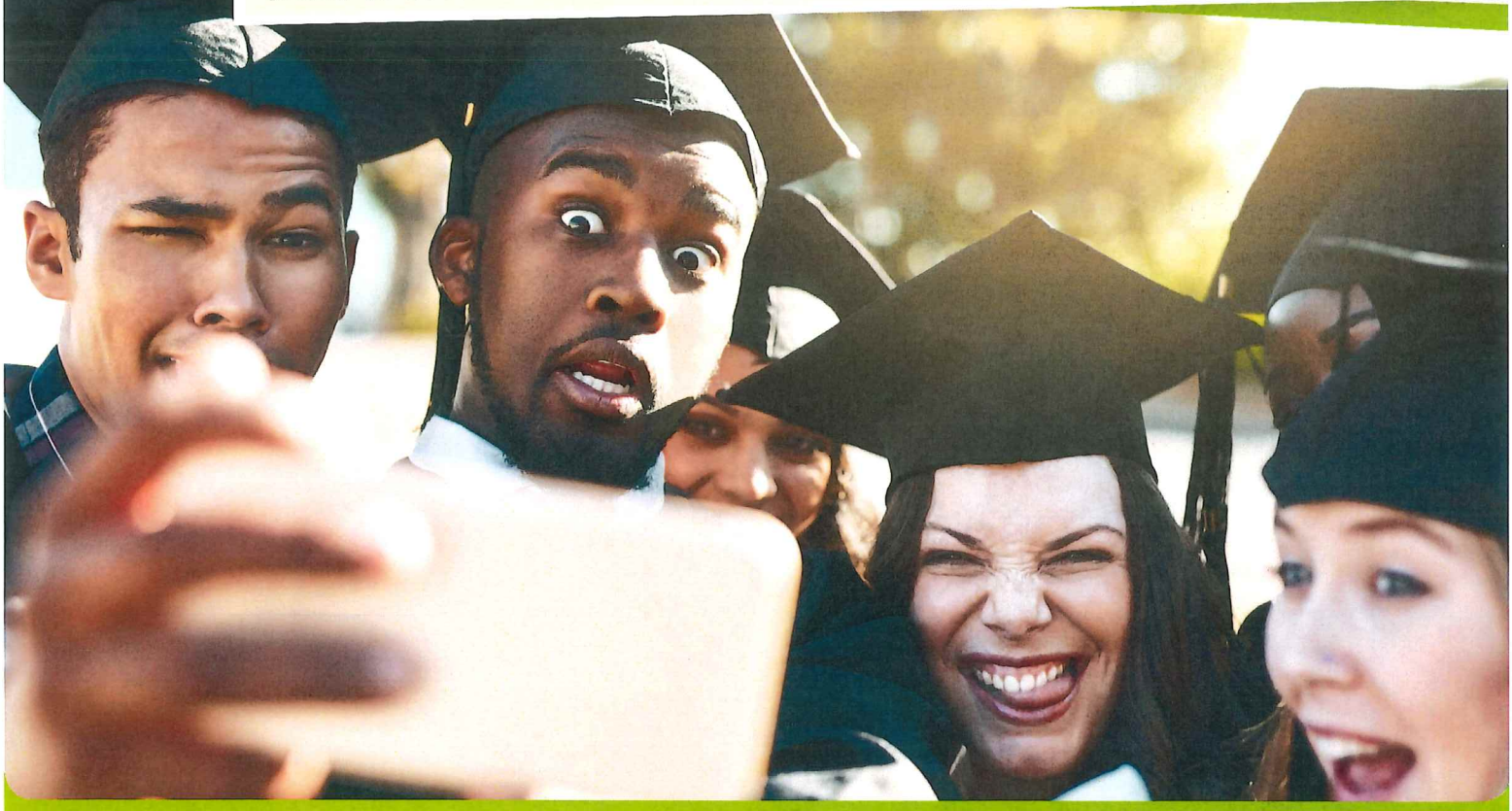
Want to learn more? Contact your school counselor or visit education.ohio.gov/graduation



Mid-East Career and Technology Centers

Our two Career Centers, including the Zanesville campus and the Buffalo campus of Mid-East Career and Technology Centers, offer many programs by which a student may enter directly into a career from high school or go on to two-year or four-year colleges and technical or trade schools.

Students should apply for admission to the Career Center by December of their sophomore year and, if selected, may enter a two-year vocational program at the beginning of the junior year.

Selection for the Career Center is based on the student's grade average, school attendance, any credit deficiencies, and the total number of students applying from other schools for each Career Center program.

If the student is admitted to the Career Center with credit deficiencies, it is the responsibility of the student and his/her parents to make up the credits necessary for graduation.

Students at the Career Center are members of the John Glenn High School student body and are encouraged to participate in extra-curricular activities. Upon completion of the Career Center course of study, students graduate from John Glenn High School.

Prospective nursing students should take physical science, biology and algebra I by the end of their sophomore year. Algebra I is recommended for students choosing electronics, machine tooling and manufacturing technology.

Mid-East Career and Technology Center Programs

The following is a list of programs offered at the Career Centers. Booklets and applications for these courses are available online at www.mideastctc.org.

BUFFALO CAMPUS

AUTO TECHNOLOGY
BUSINESS EMPLOYABILITY SKILLS TRAINING
CAREER CONNECTIONS**
CONSTRUCTION TECHNOLOGIES
CYBER SECURITY & COMPUTER TECHNOLOGY
DENTAL ASSISTING
GRAPHIC ART & DESIGN
LARGE ANIMAL SCIENCE & AGRICULTURE
MULTI-SKILLED HEALTH TECHNOLOGIES
VET ASSISTING & ANIMAL CARE
WELDING TECHNOLOGY
WORK and GAIN AN EDUCATION SUCCESSFULLY

ZANESVILLE CAMPUS

APPLIED ENGINEERING and MACHINING
AUTO BODY REPAIR TECHNOLOGY
BUILDING MAINTENANCE
BUSINESS & FINANCE
CAREER CONNECTIONS**
CARPENTRY
COMPUTER NETWORKING/ELECTRONIC TECHNOLOGY (CNET)
COSMETOLOGY
CRIMINAL JUSTICE
DIESEL TECHNOLOGY
DIGITAL MEDIA
EARLY CHILDHOOD EDUCATION
ELECTRICAL TECHNOLOGIES
EXERCISE SCIENCE & SPORTS MEDICINE
HEATING, AIR CONDITIONING &REFRIGERATION (HVAC)
MEDICAL & LEGAL OFFICE PROFESSIONALS
MULTI-SKILLED HEALTH TECHNOLOGIES
NATURAL RESOURCE CONSERVATION
POWER LINE TECHNICIAN
PRACTICAL NURSE
RESTAURANT & FOOD SERVICE OPERATIONS
ROBOTICS, AUTOMATION & DESIGN
WELDING TECHNOLOGY

** **SPECIAL ADMISSION REQUIREMENTS – Apply for this program during 9th grade year.**

Both the junior and senior year must be completed at the Career Center in order to receive a vocational certificate.

After being admitted to the Career Center, the last date a student may decide to withdraw his/her name and remain at John Glenn is June 1. After June 1 the admitted student must attend the Career Center for five days before he or she can be readmitted to John Glenn High School.

College Credit Plus

Ohio's College Credit Plus Program can help students 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 through College Credit Plus is free. There is no cost for tuition, books or fees. If you choose to attend a **private** college or university, you may have limited costs.

The college will require a placement test (ACT/SAT/Accuplacer) and will admit students based on college-readiness in one or more subject areas. An Intent to Participate Form **MUST** be received in the school counseling office by **Thursday, April 1, 2021.** An Intent to Participate form MUST be completed by all students, even those who have already participated previously.

College Credit Plus students can take up to 30 college credit hours per academic year and not more than 120 college credit hours in grades 7-12. Three or more semester hours is equal to one Carnegie unit.
Students cannot exceed full-time status as calculated below:
1.) Determine student's number of high school ONLY units,
2.) Multiply that number by 3, and
3.) Subtract the result from the number 30.
4.) That number is the total number of college credits that a College Credit Plus student may earn that academic year.

During the 2021-22 school year, College Credit Plus will be delivered on either a college campus or at JGHS. Course content can be found in the course description section of the Curriculum Guide. Additional courses may be added to the list below.

Courses Offered at JGHS through Zane State College

Environmental Science BIOL 1070	Year Long	JGHS Faculty
Composition I ENGL1500	Year Long	JGHS Faculty

Courses Offered at JGHS through Muskingum University

Calculus I MATH190	Year Long	JGHS Faculty
Principles of Microeconomics ECON215	Year Long	JGHS Faculty

Must be a Full Time Student each Semester

- Four CCP courses is considered full time.
- 3 CCP courses and 1 or more HS courses is considered full time.
- 2 CCP courses and 3 or more HS courses is considered full time.
- 1 CCP course 4 or more HS courses is considered full time.
- Students must communicate schedules and any changes with their JGHS Counselor.

CREDIT FLEXIBILITY OPTION: John Glenn High School recognizes that an effective educational program is one that provides opportunities for all students to customize aspects of their learning around needs and interests. The District Credit Flexibility Plan offers options enabling students to earn high school credit by: completing coursework or showing mastery of course content by completing activities and/or testing. Information detailing procedures for credit flexibility are available in the school counselor's office or online in the guidance section of the school website at https://eastmschools.org.

Students must obtain prior approval of student-proposed educational options plans to be eligible for credit. Students considering this option should obtain an educational option plan proposal packet from the high school guidance office and submit it at least by the trimester deadline outlined below.

Fall or Year-long Credit Flexibility – 14 calendar days before the start of the school year.
DEADLINE: Thursday, Aug. 12th, 2021

Spring Credit Flexibility – 14 calendar days before the start of the second semester.
DEADLINE: Tuesday, January 4th, 2022

Summer Credit Flexibility – 14 calendar days before the last day of school.
DEADLINE: Thursday, May 12th, 2022

In order for the course to be considered as credit-bearing for athletic eligibility purposes it must be approved within 5 days of the beginning of a new semester. Most district-developed educational options will be offered free of charge. However, students' families may be asked to contribute to the cost of student-proposed plans.

ONLINE COURSE (Apex Learning Inc.): John Glenn High School offers some elective courses in an online format. However, there is a fee with this type of instruction. We also use an online format for credit recovery.

PASS/FAIL OPTION: A student may choose to take an elective course with a pass/fail option. The student will receive credit for the course as long as the grade earned is a passing grade, but the grade will not be calculated in the GPA. Just as in a class being taken with letter grades, a student must earn a total of 3.333 quality points for a year-long course in order to receive a P and earn the credit. Students must earn a total of 1.667 quality points for a semester course in order to receive a P and earn the credit. If a student does not earn the required quality points an F will be recorded on the transcript and will be calculated into the Grade Point Average.

All decisions on whether or not to take a class Pass/Fail must be made within the first 10 days of the semester in which the course begins. Only one class will be permitted to be declared Pass/Fail per school year. Students need to remember that choosing the Pass/Fail option may affect his/her GPA and class rank.

ATHLETIC ELIGIBILITY: If a student plans to participate in athletic activities, the student must be enrolled in and passing five credits of classes each grading period. In addition, each student must earn a minimum G.P.A. of 1.300 each grading period. If not, the student will be ineligible to participate during the next grading period. Summer school grades, Summer CCP grades, exam grades, semester grades and final course grades do not count toward eligibility. Only grades earned in the previous quarter are used to determine eligibility. For example, eligibility for first quarter participation is determined by fourth quarter grades from the previous school year. CCP students are required to submit grade verification forms for grading periods.

EDUCATIONAL ASSISTANCE TEAM: John Glenn High School's Education Assistance Team (E.A.T.) was established to provide academic help to any student who wants it. Students can seek help on their own simply by asking for it, parents may request it, or teachers may refer students to the program.

The EAT room is open any time you need a little or a lot of extra help. If we can't answer your questions, we'll find someone who can. Our only request is that you show up ready to work and learn.

Students must have a study hall in their schedule in order to take advantage of EAT Room assistance.

CLASS STANDING / GRADE AVERAGING

CLASS STANDING

Class standing in high school is determined by the total credits earned. The chart below shows the minimum number of credits needed to be a member of each class. Students who lack the minimum number of credits may be assigned to the next highest class if a plan is worked out with the counselor to make up missing credits at the end of the fourth year of high school.

Class	Minimum Earned Credits for Membership
Freshman	Completion of Grade 8
Sophomore	5 1/2
Junior	11
Senior	17

FINAL GRADE CALCULATION

Letter grades are assigned the following point values: A=4.0, A-=3.667, B+=3.333, B=3.0, B-=2.667, C+=2.333, C=2.0, C-= 1.667, D+=1.333, D=1.0, D-=.667, F or I=0.00

SEMESTER COURSES

The final grade for a semester course is determined by calculating the points for the 2 nine week grades and the semester exam. The exam grade is ½ the weight of a grading period. To calculate the final average, all points are added and then divided by 2.5. Students must pass 2 of the 3 reporting periods (reporting periods = nine week grades and exam grades) and earn a minimum of 1.667 pts.

Example: 1st nine weeks	2nd nine weeks	Semester Exam
A	B-	C
4.0	2.667	1.0(2.0 x ½)

Total points 7.667/2.5 = 3.068 B average

YEAR LONG COURSES

The final grade for a year-long course is determined by calculating the points for each grading period and the two exams. Each exam is worth ½ the weight of the grading periods. To calculate the final average all points are added and then divided by 5. Students must pass 3 of the 6 reporting periods used to calculate the average (grading periods or exams) and earn a minimum of 3.333 pts.

Example: 1st nine weeks	2nd nine weeks	Sem. Exam	3rd nine weeks	4th nine weeks	Sem. Exam
A	B-	C	C	A-	D
4.0	2.667	1.0(2.0x1/2)	2.0	3.667	.50 (1.x1/2)

Total Points 13.834 / 5 = 2.7668 B- average

EXCEPTIONS TO CALCULATING THE FINAL AVERAGE FOR COURSES

1. If a student receives a grade of F for 2 of the 3 reporting periods in a semester course, the student will receive an F for the course.
2. If the student receives a grade of F for four of the 6 reporting periods in a year-long course, the student will receive an F for the course.
3. If a student receives an F for the 3 reporting periods in the second semester of a year-long course, the student will receive an F for the course.

A grade of I (incomplete) may be given when required course work is incomplete. Not completing the required work could result in loss of credit for the entire course. Determination of credit will be based on each course and its requirements.

COURSES THAT ARE REPEATED:

A student is permitted to retake a course as replacement credit. The grade value of the higher of the two grades (retake course grade or original grade) will be the only one averaged into the student's cumulative grade point average. However, the academic record of both courses will be reflected on the student's transcript.

A student who repeats a course in which they did not receive a passing mark will have both grade values recorded on their transcript. Both courses will be factored into the student's gpa.

Once the final or semester average points have been calculated, the following scale is used to determine what letter grade that point value falls into:

A	=	3.840	-	4.000	C	=	1.840	- 2.169
A-	=	3.500	-	3.839	C-	=	1.500	- 1.839
B+	=	3.170	-	3.499	D+	=	1.170	- 1.499
B	=	2.840	-	3.169	D	=	0.840	- 1.169
B-	=	2.500	-	2.839	D-	=	0.665	- 0.839
C+	=	2.170	-	2.499	F	=	0.000	- 0.664

CUMULATIVE GPA AND CLASS RANK

Calculating the Cumulative GPA

The cumulative grade point average (GPA) is determined by adding the point value of the final grade for each course and dividing by the total credits.

Grades are assigned the following point values: A = 4.00, A- = 3.667, B+ = 3.333, B = 3.00, B- = 2.667, C+ = 2.333, C = 2.00, C- = 1.667, D+ = 1.333, D = 1.00, D- = 0.667, and F or I = 0.00.

Advanced Placement Courses and College Credit Plus Courses will no longer be weighted.

Class Rank

Each student will be placed in the class rank for their graduating class based on his/her cumulative GPA in descending order.

GPA and Rank are calculated at the end of each semester.

REQUIREMENTS FOR VALEDICTORIAN AND SALUTATORIAN

To be considered for the distinction of Valedictorian or Salutatorian a student must complete the following;

1. Students must meet the requirements to receive a Diploma with Honors.
2. Those students that meet the criteria for a Diploma with Honors will be further ranked by a point system:
   A. Cumulative Grade Point Average shall be determined at the end of eight semesters. The top ten seniors shall be ranked by cumulative GPA and given the following point values;

Class Rank	Points	Class Rank	Points
1	30	6	15
2	27	7	12
3	24	8	9
4	21	9	6
5	18	10	3

   B. The number of AP class(s) taken by the top ten seniors shall be determined after eight semesters and given the following point values *;

Number of AP courses	Points
4+	20
3	16
2	12
1	8

* Students who are in a program that leads to an associate degree upon graduation from high school will have an alternate path to complete for section B. The students who successfully earn their associate degree will earn the same number of points as the students who complete the highest level of AP classes.
Regardless of the pathway, a student can earn no more than 20 points in section B.

   C. The top ten students will be ranked based on their highest ACT score from all ACT tests taken up through the February test date of their senior year. The following point values will be awarded:

Highest ACT score	Points	Highest ACT score	Points
1st highest	20	6th highest	10
2nd highest	18	7th highest	8
3rd highest	16	8th highest	6
4th highest	14	9th highest	4
5th highest	12	10th highest	2

In late March the school counselor will meet with students who are potential candidates for Valedictorian or Salutatorian.

AWARDS AVAILABLE TO SENIORS

Honors Diplomas

What are Honors Diplomas?

High school students can gain state recognition for exceeding Ohio's graduation requirements through an honors diploma. Students challenge themselves by taking and succeeding at high-level coursework and in real-world experiences.

Ohio 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

*includes dance, drama/theatre, music and visual art.

What is new for students in classes of 2021 and beyond?

Students in the class of 2021 and beyond must meet the revised criteria to earn an honors diploma.

Visit http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas to review the specific criteria.

President's Education Award Program

Selection criteria:

1. Students are to earn at least a 3.50 cumulative gpa on a 4.0 scale.
2. Achieve in the 85th percentile or higher on the ACT, SAT, PSAT, or Pre-ACT (if given during 10th grade) test in math or reading.

Revised 4/30/19

REGISTRATION

Registration is the procedure by which the student indicates his/her desired course requests for the next school year. A course selection form, which is to be completed by the student, needs to be turned in to the school counseling office by the designated date. Students and parents are encouraged to think seriously about course selections, as these choices determine staffing decisions and the number of class sections that are offered.

During March, teachers will be conferencing with their students to recommend the next appropriate step in their department's course sequence. JGHS teachers make course recommendations for all students using achievement test information when appropriate, current and prior grade history, and personal knowledge of the student. As an example, a teacher may recommend Geometry rather than Accelerated Geometry.

Course Parental Override: If a student and his/her parents wish to take a course the student's teacher has not recommended, a course parental override conference must be held and an override form must be completed by the student and parent(s). If the student experiences difficulty in the course and wants to drop it, she/he may receive a WF(withdraw fail) in the course. If the student changes a level of the course, the grades earned to date will follow to the new course.

Registration and Scheduling Process

1. Each student must register for seven credits of classes for the school year.
2. Students who are in athletics are required to be enrolled in and passing five credits of classes each grading period. In addition, each student must earn a minimum G.P.A. of 1.300 each grading period. Only grades earned in the previous quarter are used to determine eligibility. For example, eligibility for first quarter participation is determined by fourth quarter grades.
3. Students will complete the scheduling worksheet. **A parent signature is required.** Students will turn the form into the school counseling office by the assigned date for their grade level. If students don't return a form, the counselor will create a schedule and changes **will not** be approved.
4. Teachers will evaluate course selections and initial the student's scheduling worksheet in the appropriate area.
5. Counselors will discuss any needed course changes with students and parents and make adjustments to the course selections.
6. Final tallies for course requests will be calculated.

NOTE Students considering participating in the College Credit Plus Program on the college campus will schedule as if they were planning to attend John Glenn High School as a full-time student. Schedules will be adjusted after the college classes are selected and scheduled. Students enrolling in the College Credit Plus courses at the high school will register for their courses and any necessary changes will be made to their schedules upon completion of the placement test.

SCHEDULE CHANGES

Due to commitments for staff employment/assignments and the ordering of textbooks and other supplies, schedule changes after the last day of school are ***discouraged***. We realize that due to class failures, subject level changes and class balancing that some changes may be necessary. When a change is necessary, we encourage students to make the change ***prior*** to school starting. The counseling office will be open 10 days prior to the start of school.

Withdrawals From Classes (semester or year-long classes)

Students who drop a class after 5 days will withdraw fail (WF) from the class. The WF will appear on the transcript and will be factored into the GPA. A parent signature is required. **

Students will still be required to maintain 6 credits of classes for the year. This could mean students will not be able to drop the class or may have to add a class second semester.

**Parents may request conferences if there are extenuating circumstances that are causing the student to withdraw.

CURRICULUM LISTING

The following is a list of courses to be offered in the John Glenn High School curriculum for 2021-2022. Brief course descriptions are included in the next section.

COURSE LENGTH CODES: **S = SEMESTER COURSE**
Y = YEAR-LONG COURSE

	COURSE NO.	TITLE	YEAR	CREDIT	PAGE
LANGUAGE ARTS CURRICULUM					
Y	101	ACCELERATED ENGLISH 9	9	1	17
Y	1021	ENGLISH 9	9	1	17
Y	104	ACCELERATED ENGLISH 10	10	1	17
Y	105	ENGLISH 10	10	1	17
Y	106	HONORS ENGLISH 10	10	1	17
Y	107	ACCELERATED ENGLISH 11	11	1	17
Y	108	ENGLISH 11	11	1	17
Y	109	HONORS ENGLISH 11	11	1	17
Y	110	ACCELERATED ENGLISH 12	12	1	18
Y	111	ENGLISH 12	12	1	18
Y	818	ADVANCED PLACEMENT ENGLISH LIT & COMPOSITION	12	1	18
Y	901500	COMPOSITION I (ENGL 1500)	7-12	1	18
SOCIAL STUDIES CURRICULUM					
Y	210	WORLD HISTORY	9	1	18
Y	212	AMERICAN HISTORY	10	1	18
Y	214	HONORS AMERICAN HISTORY	10	1	18
Y	816	ADVANCED PLACEMENT U.S. HISTORY	10-12	1	19
Y	225	CURRENT EVENTS	11, 12	1	19
Y	236	AMERICAN GOVERNMENT	11	1	19
Y	819	ADVANCED PLACEMENT U.S. GOVERNMENT	11, 12	1	19
Y	822	ADVANCED PLACEMENT PSYCHOLOGY	11, 12	1	19
Y	700215	PRINCIPLES OF MICROECONOMICS (ECON 215)	7-12	1	19
MATHEMATICS					
Y	314	ALGEBRA I	9	1	19
Y	315	GEOMETRY	10	1	19
Y	316	APPLIED MATH	11	1	20
Y	317	ALGEBRA II	12	1	20
Y	320	ACCELERATED ALGEBRA I	9	1	20
Y	322	ACCELERATED GEOMETRY	9, 10	1	20
Y	326	ACCELERATED ALGEBRA II	10, 11	1	20
Y	318	ADVANCED MATH	11, 12	1	20
Y	328	ACCELERATED PRE-CALCULUS	11, 12	1	20
Y	330	TRANSITION TO COLLEGE MATHEMATICS	12	1	20
Y	700190	CALCULUS I (MATH 190)	7-12	1	20
NATURAL SCIENCES					
Y	3411	PHYSICAL SCIENCE	9	1	21
Y	342	HONORS BIOLOGY	10	1	21
Y	343	BIOLOGY	10	1	21
Y	345	ZOOLOGY	11, 12	1	21
Y	346	CHEMISTRY	10-12	1	21
Y	824	ADVANCED PLACEMENT CHEMISTRY	11, 12	1	22
Y	348	PHYSICS	11, 12	1	21
Y	349	ANATOMY & PHYSIOLOGY	11, 12	1	21
Y	350	ECOLOGY	11, 12	1	22
Y	353	BIOLOGICAL ANTHROPOLOGY	11, 12	1	22
Y	354	FORENSIC SCIENCE	12	1	22
Y	901070	ENVIRONMENTAL SCIENCE (BIOL 1070)	7-12	1	22

FOREIGN LANGUAGES

SPANISH

Y	420	SPANISH I	9-11	1	22
Y	422	SPANISH II	10-12	1	23
Y	424	SPANISH III	11, 12	1	23
Y	426	SPANISH IV	11, 12	1	23

FRENCH

Y	430	FRENCH I	9-11	1	23
Y	432	FRENCH II	10-12	1	23
Y	434	FRENCH III	11, 12	1	23
Y	436	FRENCH IV	12	1	23

AGRICULTURAL SCIENCE AND TECHNOLOGY

Y	510	AGRICULTURE, FOOD & NATURAL RESOURCES	9	1 ¼	23
Y	512	ANIMAL AND PLANT SCIENCE	10	1 ¼	23
Y	516	MECHANICAL PRINCIPLES	11	1 ¼	24
Y	518	AGRICUL. & ENVIRON. SYSTEMS CAPSTONE	12	1 ¼	24

FAMILY AND CONSUMER SCIENCES

S	5241	FOOD SCIENCE	10-12	½	24
S	5242	GLOBAL FOODS	10-12	½	24
S	526	PERSONAL WELLNESS	9-12	½	24
S	5291	CAREER and COLLEGE READINESS	11, 12	½	24
S	530	CHILD DEVELOPMENT	10-12	½	24

TECHNOLOGY

S	543	MINDSTORM ROBOTICS	9-12	½	25
S	545	VEX ROBOTICS	9-12	½	25
S	546	COMPUTER AIDED DESIGN I	9-12	½	25
S	547	COMPUTER AIDED DESIGN II	9-12	½	25
S	571	COMPUTER GRAPHICS I	9-12	½	25
S	572	COMPUTER GRAPHICS II	9-12	½	25
S	573	INTRO TO PROGRAMMING	9-12	½	25
S	574	DIGITAL MEDIA I	9-12	½	25
S	576	COMPUTER BUILDING and REPAIR	9-12	½	25

BUSINESS

S	560	GENERAL BUSINESS	9-12	½	26
S	563	BUSINESS ADMINISTRATION STRATEGIC MGMT	9-12	½	26
S	568	ACCOUNTING I	11, 12	½	26
S	569	ACCOUNTING II	11, 12	½	26
S	578	FINANCIAL LITERACY	11, 12	½	26
Y	700215	PRINCIPLES OF MICROECONOMICS (ECON 215)	7-12	1	26

ARTS

Y	540	PHOTOGRAPHIC COMPOSITION	9-12	1	26
Y	610	VISUAL CREATION	9-12	1	26
S	612	DRAWING 1	10-12	½	26
S	614	DRAWING 2	10-12	½	27
Y	616	ADVANCED ART	11,12	1	27
Y	820	AP ART & DESIGN	12	1	27

PHYSICAL EDUCATION

S	6241/6242	PHYSICAL EDUCATION	9-12	¼	27
S	6261/6262	ADVANCED CONDITIONING	9-12	¼	27

MUSIC

Y	642	SYMPHONIC CHOIR	9-12	1	27
Y	646	BAND	9-12	1	27
Y	647	ORCHESTRA	9-12	1	28

OTHER ELECTIVES

S	117	BEGINNING PUBLIC SPEAKING	9-12	½	28
S	118	MEDIA PUBLICATIONS I	9-12	½	28
Y	119	MEDIA PUBLICATIONS II	10-12	1	28
S	120	INTRODUCTION TO THEATRE	9-12	½	28
S	648	MUSIC THEORY	9-12	½	29
Y	519	GENERAL AGRICULTURAL MECHANICS	11, 12	1	29
S	6281	ATHLETIC TRAINING I	10-12	½	29
S	6282	ATHLETIC TRAINING II	10-12	½	29
S	6291/6292	SPORT SPECIFIC TRAINING	10-12	½	29
Y	989	EARLY RELEASE	12	0	29

ADVANCED PLACEMENT COURSES

Y	816	ADVANCED PLACEMENT U.S. HISTORY	10-12	1	19
Y	818	ADVANCED PLACEMENT ENGLISH LIT & COMP	12	1	18
Y	819	ADVANCED PLACEMENT U.S. GOVERNMENT	11, 12	1	19
Y	820	ADVANCED PLACEMENT ART & DESIGN	12	1	27
Y	822	ADVANCED PLACEMENT PSYCHOLOGY	11, 12	1	19
Y	824	ADVANCED PLACEMENT CHEMISTRY	11, 12	1	22

COLLEGE CREDIT PLUS CLASSES OFFERED THROUGH MUSKINGUM UNIVERSITY

Y	700190	CALCULUS I (MATH 190)	7-12	1	30
Y	700215	PRINCIPLES OF MICROECONOMICS (ECON 215)	7-12	1	30

COLLEGE CREDIT PLUS CLASSES OFFERED THROUGH ZANE STATE COLLEGE

Y	901070	ENVIRONMENTAL SCIENCE (BIOL 1070)	7-12	1	30
Y	901500	COMPOSITION I (ENGL 1500)	7-12	1	30

COURSE DESCRIPTIONS

This section contains a brief description of every course offered at John Glenn High School. Further information about courses may be obtained from teachers in each subject area.

LANGUAGE ARTS GUIDELINES

A student's choice for English must be based upon a variety of factors: his interests, his past experiences in language arts and his career goals. Certainly, if a competitive, four-year college degree is the goal students should follow the Accelerated or Honors/AP curriculum from grades 9 through 12. Students who have struggled in language arts in the past and students whose career plans include two-year colleges, training school or the vocational school may be better served through English 9 through English 12 or a combination of the two curriculum strands.

All students must complete four units of credit in English in order to graduate.

LANGUAGE ARTS

101 - ACCELERATED PREP ENGLISH 9

Prerequisite: At least a B in 8th grade Language Arts and permission of the instructor.

Accelerated English 9 involves the study of literature, grammar and composition/essay skills. A challenging literature text is used for this year long course. Students are responsible for a moderate amount of work to be completed outside of class. There is a class fee for a paperback novel.

1021 - ENGLISH 9

English 9 focuses on increasing the individual student's confidence and skill in reading, writing, speaking and listening. Daily activities include: mechanics, usage, grammar and spelling review; writing; and independent and group reading.

104 - ACCELERATED ENGLISH 10

Prerequisite: At least a B- in Accelerated English 9, an A in English 9 or permission of the instructor

This course continues the sequence in literature, writing, and grammar begun in English 9, with a focus specifically on the development of vocabulary. Students will continue to use the writing process with particular emphasis on thesis statements and expository compositions, as well as writing claim statements. There will be multiple presentations that require public speaking skills. Literature to be covered may include *Julius Caesar, Antigone, Night, Of Mice and Men, The Crucible,* and more. There is a course fee used for Membean Vocabulary tool.

105 - ENGLISH 10

Prerequisite: English 9

The overarching goal of the course remains the improvement of students' abilities in reading, writing, speaking and listening. Vocabulary study and career exploration will also be included.

106 - HONORS ENGLISH 10

Prerequisite: An A in Accelerated English 9 and permission of the instructor.

The Honors English 10 course is a literature and composition course. Students are expected to demonstrate a genuine interest in interpreting literature and developing higher level thinking skills. This course is expected of students who intend to take Honors English 11.

107 – ACCELERATED ENGLISH 11

Prerequisite: At least a B- in Accelerated English 10, an A in English 10, or permission of the instructor.

Accelerated English 11 continues the sequence of literature, writing, and grammar begun in English 9 and 10. The literature studied is a chronological survey of American writers from various literary periods. Writing instruction will include an emphasis on research. Grammar and vocabulary instruction will be geared toward the ACT.

108 - ENGLISH 11

Prerequisite: English 10

English 11 is designed to continue the study of reading, writing, speaking, and listening. It will include the study of American literature, some study of good usage of the English language, and practical writing assignments. There is a course fee used for a paperback novel.

109 - HONORS ENGLISH 11

Prerequisite: At least a B in Honors English 10

This course is the second of two courses designed to prepare students for Advanced Placement English. Students will apply the principles of literary study that they acquired in Honors English 10 to the canon of American literature. Students will read and write about novels, poems, and plays that represent major movements in American literature. Writing instruction will include emphasis on research, culminating in a major research paper on a famous American novel. Grammar and vocabulary instruction will be geared toward the ACT.

110 - ACCELERATED ENGLISH 12

Prerequisite: At least a B- in Accelerated English 11, an A in English 11, or permission of the instructor.

This course is designed as a brief survey of English literature. The literature study will lead to various written and public speaking assignments. Each six weeks students will be required to select contemporary and/or classic novels and nonfiction works for independent reading. The class will study models of writing with the end result a portfolio of essays. Students will also have opportunities to write college application and scholarship essays. Grammar, usage and mechanics will be emphasized in all written work.

111 - ENGLISH 12

Prerequisite: English 11

In English 12, students will write, speak, read and research according to their individual needs and goals. The over-riding assumption driving the curriculum decisions for this class is: will doing these assignments better prepare these students for entering the post-high school world - whatever that may bring?

818 - ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION

Prerequisite: Honors English 11 or recommendation of the College Board (PSAT score)

Advanced Placement English Literature and Composition is the culmination of our honors English program. Emphasis will be placed on poetry and British literature. Essays will include explications of poems and critical analyses of novels and plays.

901500 - COMPOSITION I

Prerequisite: Complete and pass the Zane State Accuplacer Test and be accepted to Zane State College

This course emphasizes the writing and revising process with essay mastery as the primary goal. Students read literary examples as models and write in descriptive, narrative, expository, persuasive and poetic modes. The works studied will include novels, short stories, poetry and drama. The writers studied will span from Wordsworth to Dickens, Shelley to Keats and Austen. A research essay written in APA style is a requirement to successfully complete this course.

College Credit Hours: 3.0 *High School Credits:* 1

SOCIAL STUDIES

210 – WORLD HISTORY

World History 1750-Present

Ninth grade students will explore topics concerning World History beginning with the Enlightenment and ending with contemporary conflicts. It places a focus on democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the concepts that led to independence movements and the overall effects of global interdependence. While investigating the history of the world in this period, students will sharpen their skills relating to geographical differences, cultural perspectives, economic systems, social tendencies and governmental developments as well as analyzing primary and secondary sources from various perspectives to draw historical conclusions.

Students will also explore in depth America's foundational documents including the Declaration of Independence, the Articles of Confederation, the Northwest Ordinances of 1785 and 1787, The United States Constitution, the Bill of Rights, The Federalist and Anti-Federalist Papers. This course will help prepare students for the new American History assessment required for the Class of 2018 and beyond. Students will use historical thinking to examine these key documents which form the basis for the United States of America.

212 – AMERICAN HISTORY

American Studies 1877-Present

Tenth grade students continue the chronological study of the United States. The course will begin with the post-Civil War period and continue to the present. The main topics to be covered will be: Reconstruction, Industrial Revolution, Progressive Movement, WWI, the Great Depression, WWII, the Cold War, Conflict in the Middle East, The Civil Rights Movement, the Vietnam War and Contemporary Issues and Conflicts. As students study historic eras, they consider the geographic, cultural and governmental changes that have occurred. Students develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

214 – HONORS AMERICAN HISTORY

Prerequisite: Students must have an A in World History and an A in Accelerated English 9 and/or teacher recommendation.

This is a prerequisite for those wanting to take AP American History and is more in-depth than American History. This course represents an in-depth chronological study of history of the United States from 1877 to the present. Students will examine the critical aspects of foreign policy and domestic affairs. As students study historic eras, they develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

225 – CURRENT EVENTS

This elective course discusses political and economic issues both domestically and around the world. Various forms of media, including magazines, newspapers, and other periodicals from the internet, will be used as resources to brief students on world events that also include the environment, technology, as well as social and popular culture. An emphasis will be placed on the proper use of the internet for current information and recognition of potential bias in the media. There will be daily reading assignments in addition to weekly assessments based on those readings.

236 - AMERICAN GOVERNMENT

In the eleventh grade, learners will study national, state, and local government with an emphasis on application of skills and knowledge that have been gained in grades Pre-K through 10. The students will participate in projects that will provide them the opportunity to conduct academic research and to utilize the results of this research in considering solutions to real problems or issues. Students in this class will be required to do a significant community service project.

816 – ADVANCED PLACEMENT U.S. HISTORY

Prerequisite: Teacher recommendation

The AP U.S. History course is designed to provide students with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses. Students should learn to assess historical materials – their relevance to a given interpretive problem, their reliability, and their importance – and to weigh the evidence and interpretations presented in historical scholarship. An AP United States History course should thus develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in an essay format. Students are **required** to take the AP exam in the spring.

819 – ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS

Prerequisite: AP United States History with a grade of B or higher or Teacher Recommendation

AP United States Government & Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments. Students are REQUIRED to take the AP exam in the spring.

822 – ADVANCED PLACEMENT PSYCHOLOGY

Prerequisite: "A" in Biology and either an "A" in Accelerated English 10 or at least a "B" in Honors English 10, students must also be recommended by their current social studies teacher.

In this course students will study the principles, theories, and practices of psychology. This course will cover the history of psychology, human development, personality, abnormal behavior and treatment, and social psychology. As this is an advanced course, expectations for reading, writing, and testing will be much higher than for Modern World Issues. Students taking the course are expected to take the AP Psychology exam in May. **This course is potentially dual credit: Students passing the AP exam will be able to receive credit at most 4-year colleges/universities in Ohio. Check with individual schools for their specific AP policy.**

700215 – PRINCIPLES OF MICROECONOMICS **This will be a year-long course**

Prerequisite: Must be accepted to Muskingum University.

This course concentrates attention on the determination of prices for goods and factors of production and consumer behavior. This is a required course for college business majors.

College Credit Hours: 3.0 *High School Credits:* 1

MATHEMATICS

314 - ALGEBRA I

This course examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, data analysis, probability, and the elementary properties of functions. Mathematical modeling of real-life problems and problem solving are major themes of the course with pacing and depth at the appropriate level.

The main objective of this course is the preparation of the student to move on to geometry and continue into higher level math.

315 – GEOMETRY

Prerequisite: Algebra I or Accelerated Algebra I

Geometry is a study of geometric concepts and ideas. Its underlying purpose is to promote logical thinking. It is a requirement in all liberal arts, science and engineering schools. Proofs are a major consideration in this course and, therefore, involve a depth of thinking that is challenging and mature. Pacing and depth will be at the appropriate level.

316 – APPLIED MATH

Prerequisite: Geometry or Accelerated Geometry

Applied Math is a continuation of the more advanced Algebra I topics while moving into Algebra II concepts. There will be an emphasis on using logic and problem solving skills to help answer questions that might be unfamiliar. This class should be taken after Geometry. Topics to be covered will include Equations and Inequalities, Quadratic Functions and Relations, Polynomials and Polynomial Functions, and Matrices. Pacing and depth will be at the appropriate level.

317 – ALGEBRA II (O)

Prerequisite: Applied Math

This course is designed for students who have completed Applied Math. The content of the course will cover topics that continue on from Applied Math extending the students learning to the topics of Exponential and Logarithmic Functions and Relations, Rational Functions and Relations, Conic Sections, Sequences and Series, Statistics and Probability, Trigonometric Functions Identities and Equations. Pacing and depth will be at the appropriate level.

320 – ACCELERATED ALGEBRA I

Prerequisite: At least a B in 8th grade math and teacher recommendation

This course examines the basic structure of real numbers, algebraic expressions, and functions. The topics studied are linear equations, inequalities, functions and systems, quadratic equations and functions, polynomial expressions, data analysis, probability, and the elementary properties of functions. Mathematical modeling of real-life problems and problem solving are major themes of the course.

The main objective of this course is the preparation of the student to move on to Accelerated Geometry and continue into higher level math.

322 – ACCELERATED GEOMETRY

Prerequisite: At least a B in Accelerated Algebra I and teacher recommendation

Accelerated Geometry is a study of geometric concepts and ideas. Its underlying purpose is to promote logical thinking. It is a requirement in all liberal arts, science and engineering schools. Proofs are a major consideration in this course and, therefore, involve a depth of thinking that is challenging and mature.

326 – ACCELERATED ALGEBRA II

Prerequisite: At least a B- in Accelerated Algebra I, and a B- in Accelerated Geometry

Accelerated Algebra II is simply a continuation of Accelerated Algebra I, utilizing the skills of formal proof and logical thinking developed in geometry. It should be taken after Accelerated Geometry. The course begins with a study of our number system and its use in the operations with polynomials. It then defines the meanings of relation and function leading into the linear and quadratic functions. Covered briefly throughout the year are the following topics: linear functions, complex numbers, matrices, logarithms, systems of equations, factoring, quadratic functions, and exponentials.

318 – ADVANCED MATH

Prerequisite: Must have a passing grade in Accelerated Algebra II and recommendation from instructor

Advanced Math is a course developed to reinforce and expand topics covered in Accelerated Algebra II eventually moving to early topics of a pre-calculus level. Topics revisited and expanded upon from Accelerated Algebra II would include: Factoring, solving and manipulating equations (ex. Linear, quadratic, matrix, rational, systems of equations and inequalities), continuing to develop skills involving exponential, logarithmic, and trigonometry functions. The course will connect these topics to preliminary topics involved in the pre-calculus level including: factoring and solving higher degree polynomials, solving logarithmic equations, and expanding student's knowledge of trigonometry eventually leading to solving more involved trigonometric equations.

328 – ACCELERATED PRE-CALCULUS

Prerequisite: At least a B- in Accelerated Algebra II.

Accelerated Pre-Calculus is a course designed to be taken in a sequence following Accelerated Algebra II. Topics covered include review of algebra, trigonometry, analytic geometry, theory of equations, and graphing techniques. Other topics will be covered when time permits. **A graphing calculator will be required for most of the course. It is needed the first day of school.**

330 – TRANSITION TO COLLEGE MATHEMATICS

Prerequisite: Accelerated Pre-Calculus

This course is designed for students in grade 12 making a transition to a college preparatory program. Content includes new math topics not covered in pre-calculus and revisits some previously addressed topics with increased emphasis on symbol manipulation and mathematical structure. The course will also include one semester of Elementary Statistics.

700190 –CALCULUS I

Prerequisite: MATH 180 at Muskingum University, or ACT Math 24 or higher, or SAT Math 576 or higher. Must be accepted to Muskingum University

This course introduces the concepts of limit, continuity, derivative, integral, and applications. It assumes knowledge of trigonometric functions and equations for lines and conic sections.

College Credit Hours: 4.0 *High School Credits:* 1

SCIENCE

3411 – PHYSICAL SCIENCE

This physical science course introduces the scientific method, metric measurement, mass and energy conservation, Newton's law of motion, waves, atomic structure, forces, simple machines, and chemical reactions. The course is designed as an introduction to Chemistry and Physics. There is a $12 lab fee.

342 – HONORS BIOLOGY

Prerequisite: Must have an A in Physical Science and recommendation from the Physical Science teacher.

Honors Biology course is a full year in-depth study of the major concepts of the living world. The core principles of science are used to promote deep understanding and appreciation of complexity, diversity, and interconnectedness of life on earth. The course focuses on: correlation between structure and functions starting at molecular level and up to the level of organisms; principles of classical and molecular genetics and evolutionary theory; energy transformations within living systems; and interactions between organisms and their environment. The study of history of major discoveries in Biology will facilitate the understanding and give insight into modern and future problems and solutions. The emphasis is placed on the modern biotechnological and technical advances as applicable to medicine, food production, and human wellness. Students will be able to apply knowledge gained in this course to their everyday lives, make informed choices as members of the community, as well as to further their career in medicine, food services, cosmetology, and other related vocational areas.

Honors Biology course is supplemented with the required laboratory component corresponding to the material studied in the classroom. Students will gain skills using laboratory apparatus and correct laboratory techniques and procedures. They will learn uses of classical and contemporary equipment in biological laboratories. Dissections of chosen organisms will be used to promote the understanding of organization and functions of living things. Students will design and carry out long and short-term investigations using principles of scientific method and use proper formats for reporting their findings. There is a $20 lab fee.

343 - BIOLOGY

This life science course covers the scientific method, metric measurement in the lab, the use of microscopes, biotechnology, basic chemistry of living organisms, cellular organelle structure and function, cellular transport processes, photosynthesis, cellular respiration (aerobic and anaerobic or fermentation), mitotic cell division, meiotic reproductive cell division, human inheritance, genetics, DNA replication, protein synthesis, an introduction to the historical and scientific evidence for the theories of the origin of life, classification of living organisms, an introduction to ecology and ecosystems, bacteria, viruses, protists, fungi and plants. There will be a $12.00 lab fee.

345 - ZOOLOGY

Prerequisite: Biology

This general science course covers evolution, marine biology, marine ecology, the invertebrates and vertebrates. Students will be expected to perform basic dissections with a frog final dissection. This class will also involve three 6-week projects; the insect collection, animal signs, and animal behavior. There is a lab fee of $20.00.

346 - CHEMISTRY

Sophomores wanting to take chemistry must have an A in physical science.

High school chemistry is designed to introduce the fundamental concepts of *inorganic* chemistry. Topics include properties of matter and gases, formulas and equations, microscopic nature of matter, atomic structure and chemical bonding, solutions, kinetics, equilibrium, thermodynamics, acids and bases, REDOX reactions and electrochemistry, and nuclear chemistry. The use of proper laboratory techniques and problem solving strategies are a significant part of this course. Students must have good math skills! The fee for this course will be $15.00.

348 - PHYSICS

Prerequisite: 11th or 12th grade with a grade of C or better in both Chemistry and Accelerated Algebra II

Physics focuses on the study of the key concepts of motion, forces and energy as they relate to systems and applications that will provide the foundation for further study in science and scientific literacy. The class is designed for all students interested in medicine, engineering, math, science, or any technical field. Students engage in investigations to understand and explain motion, forces and energy in a variety of inquiry-based studies that incorporate scientific reasoning, analysis, communication skills and real-world applications There is a $15 lab fee.

349 - ANATOMY & PHYSIOLOGY

Prerequisite: 11th or 12th grade with a grade of B or better in Biology

This life science course introduces basic anatomy terminology, dissection techniques, and histology of human tissue. The content of the course is covered in a body system format covering the skeletal system, muscular system, nervous system (including the special senses), integumentary system, circulatory system (including blood typing), respiratory system, nutrition and the digestive system, lymphatic system, excretory system, endocrine system, and reproduction and development. A variety of special group and individual project formats are used to cover human body system disorders. Laboratory dissections include cow or sheep brain, heart, kidney, eye, and the total fetal pig dissection. There is a $20.00 fee.

350 - ECOLOGY

Prerequisite: At least a B in Biology

This course will look at the environment and how humans effect the environment. Students will study biological indicators, rock formations, soil studies, hydrology, land cover, biomes, and erosion. Students will be responsible for writing a scientific paper for a research project. Students will be required to do field studies, which may require getting dirty and wet while collecting samples. The fee for this class will be $20.00.

353 – BIOLOGICAL ANTRHOPOLOGY

Prerequisite: 11th or 12th grade with a grade of C or better in Biology

Have you ever wondered what it was like to live like our ancient ancestors? What did they eat? Did they really live in caves and look like primates? How did they learn new languages? Anthropologists ask these questions every day. Anthropology is the study of humankind, including human biological and cultural variation/adaptions in space and time. This course provides students with a general introduction to Biological Anthropology.

Topics discussed include human physical variation and adaptations; such as human evolution, the comparison of humans to other primates, and analyzing age and sex of a skeleton. We will look at the scientific evidence for the origin and evolution of Homo sapiens. This course will also use data from evolutionary theory, primatology, comparative anatomy, genetics, and paleontology to understand the latest hypotheses regarding human evolution and modern human behavioral biology. There will be a $20 lab fee for this course.

354 – FORENSIC SCIENCE

Prerequisite: 12th grade with a grade of B or better in Chemistry and recommended that you have taken Anatomy or are taking it concurrently

Introduction to Forensic Science introduces the student to the various scientific disciplines (biology/anatomy, chemistry, and physics) involved in the collection and analysis of evidence in criminal investigations. Students will study the history, theories, principles and practices of forensic sciences in the criminal justice system. Topics include crime scene investigation, trace evidence, fingerprints, forensic chemistry, firearms examination, DNA and bloodstain pattern analysis. Students will also learn how to work independently and collaboratively in a lab setting. Case studies will be read and discussed. Due to the subject matter, some content may be graphic and disturbing in nature.

824 – ADVANCED PLACEMENT CHEMISTRY

Prerequisite: At least an A average in Chemistry I and/or teacher permission. Also, Accelerated Algebra II (may be taken concurrently).

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. For some students, this course enables them to undertake, in their first year, second-year work in the chemistry sequence at their institution or to register in courses in other fields where general chemistry is a prerequisite. AP Chemistry will focus on preparing students for the AP exam. Students in this course will attain a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems. The course will contribute to the development of the students' abilities to think clearly and to express their ideas, orally and in writing, with clarity and logic. This course will require one extra period a week (pride period) to allow for the completion of certain laboratory experiments. Students will also be required to complete some work over the summer prior to starting the class. There is a $20 lab fee.

Students in AP Chemistry should spend at least five hours a week in individual study outside of the classroom.

901070 – ENVIRONMENTAL SCIENCE

Prerequisites: A grade of B or better in Biology is suggested. Complete the Accuplacer Test and be accepted to Zane State College.

This 3 credit, Zane State course focuses on basic biological and ecological concepts, and applies these to environmental issues. Topics covered include: the scientific method, sustainability, stewardship, ecological principles, population dynamics, biological diversity, energy, human populations, pollution and environmental health. Walking to outdoor lab locations will be required. Course format includes power point lectures, small text assignments, labs, environmental science news article discussions, tests, a few research projects and possible field trips. This course also counts towards earning an Honors Diploma.

Many universities require one science course for non-science majors. This course will satisfy that requirement at most colleges and universities, and it will at least count as an elective for science majors. See BIOL 1070 at zanestate.edu.

College Credit Hours: 3.0 *High School Credits*: 1.0

FOREIGN LANGUAGE

420 - SPANISH I

Prerequisite: At least a B in Language, Reading or English classes or permission.

*If space is limited, preference will be given to students on a college/university track; and to those who have an A in English.

Spanish I concentrates on understanding, speaking, reading and writing Spanish through learning vocabulary and grammatical structures. Students are encouraged to use Spanish in class. Homework assignments are given daily. Quizzes and tests will be given often. The text is supplemented with videos, games, and skits. Oral presentations will be required. If Spanish is your native language, it will be suggested you take French I. Heritage speakers will be given additional work in the target language to challenge them.

422 - SPANISH II

Prerequisite: At least a C in Spanish I or permission from the administration.

Spanish II continues the sequence of learning vocabulary and grammatical structures begun in Spanish I with more emphasis on verb tenses. Daily homework assignments and occasional writing assignments are required. Again, videos, slides, games, and skits help vary the learning routine. If a student does well, he/she should definitely continue on in Spanish III.

424 - SPANISH III

Prerequisite: At least a C in Spanish II or permission from the administration.

Spanish III reviews all verb tenses and other grammatical structures. The students will use more spoken and written Spanish. Some of the class is conducted in Spanish. Students are encouraged to use Spanish in class. In addition to frequent assignments students will do skits, readings, and compositions. If students are considering majoring in Spanish, they should plan to continue in Spanish IV.

426 - SPANISH IV

Prerequisite: At least a C in Spanish III or permission from the administration.

Spanish IV provides a comprehensive review of grammar and an introduction to the study of literature, history, and culture. Some of the class is conducted in Spanish with students encouraged to use Spanish in class. Students are required to do oral presentations, skits, and compositions.

FRENCH

430 - FRENCH I

Prerequisite: At least a B in Language, Reading or English classes or permission of the administration.

French I concentrates on understanding, speaking, reading and writing French through learning vocabulary and grammatical structures. Students are encouraged to use French in class. Homework assignments are given daily. Quizzes and tests will be given often. The text is supplemented with online activities; and class activities include games, skits, and videos. Oral presentations will be required.

432 - FRENCH II

Prerequisite: At least a C in French I or permission from the administration.

French II continues the sequence of learning vocabulary and structures begun in French I with more emphasis on verb tenses. Daily homework is required. Again, online activities will accompany the text; and videos, skits, and games help vary the learning routine. If a student does well, he should definitely go on to French III.

434 - FRENCH III

Prerequisite: At least a C in French II or permission from the administration.

French III reviews all verb tenses and other grammatical structures. The students become more fluent in the use of both spoken and written French. Most of the class is conducted in French. Students are encouraged to use French in class. In addition to frequent assignments students may be asked to do skits, readings and compositions. If students are considering majoring in French, they should plan to continue in French IV.

436 - FRENCH IV

Prerequisite: At least a C in French III or permission from the administration.

French IV provides a comprehensive review of grammar and an introduction to the study of literature, history, and culture. The class is conducted in French with students encouraged to use French in class. Students will be required to do oral presentations, skits, and compositions. A workbook or novel may be required.

AGRICULTURE PRODUCTION AND BUSINESS CLASSES

Agriculture courses are designed for students who have an interest in agriculture and want to further their development as a leader in the community. All members who enroll in an agriculture class will be a member of the National FFA Organization, which is a student led, student run organization that focuses on premier leadership, personal growth, and career success. Students will have an opportunity to plan, coordinate and conduct activities throughout the school and community to develop their leadership skills. Leadership conferences, skills competitions, and an agriculture project will help further the development of enrolled students agriculture knowledge and interpersonal skills.

510 - AGRICULTURE, FOOD AND NATURAL RESOURCES - Open to 9th grade students

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.

512 - ANIMAL AND PLANT SCIENCE - Open to 10th grade students

Prerequisite: Ag Food and Natural Resources

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.

516 - MECHANICAL PRINCIPLES - Open to 11th grade students

Prerequisite: Ag Food and Natural Resources

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

518 - AGRICULTURAL AND ENVIRONMENTAL SYSTEMS CAPSTONE – Open to 12th grade students only

Prerequisite: Ag Food and Natural Resources

Throughout the course, students will apply concepts of ethics and professionalism while implications of business regulations will be identified. Students will examine elements of business, identify organizational structures and apply management skills while developing business plans, financial reports and strategic goals for new ventures or existing businesses. In addition, students will use knowledge gained from previous Agriculture Education courses to create a capstone project that will be presented at the end of the year.

519 – GENERAL AGRICULTURE MECHANICS **Year-long course** **Open to students in grades 11-12** **1 Credit**

No prerequisite required. Have you ever thought – "I wish I could learn something I could actually use in life"? This is your course then. Throughout this course, students will examine basic theories of engine operation, plumbing systems, electrical systems, hydraulic and pneumatic systems, and residential building systems. In addition, students will explore current practices in plant and animal science to better understand current food, fiber and pharmaceutical production. This will be a fast paced, hands on course that explores content of which all adults should acquire a basic understanding. If independent living is one of your life goals, then this is your class!!

FAMILY AND CONSUMER SCIENCES

5241 – FOOD SCIENCE **One Semester** **½ Credit**

Available to Sophomores, Juniors, and Seniors.

In this course, students will apply basic culinary practices and understand how flavor, texture and appearance are affected during food preparation. Students will evaluate chemical reactions as they occur in cooking methods and assess how to control high-risk food safety situation. Food safety and sanitation techniques will align to industry-recognized certifications. A $25 lab fee is required.

5242 - GLOBAL FOODS **One Semester** **½ Credit**

Available to Sophomores, Juniors and Seniors. **Prerequisite: Must pass Food Science with a C or better.**

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced cooking techniques, including the use of specialty and advanced equipment in the preparation of food dishes. A $25 lab fee is required.

526 - PERSONAL WELLNESS **One Semester** **½ Credit**

Available to Freshmen, Sophomores, Juniors and Seniors.

In this course, students will analyze personal physical, emotional, social and intellectual growth for a healthy lifestyle. An emphasis will be placed on lifespan wellness by managing stress through relaxation, physical activity and sleep. Additional topics will include human growth development, mental health management, personal hygiene and preparing for emergency medical situations. There will be a lab fee of $25 to become certified in CPR and First Aid.

5291 – CAREER and COLLEGE READINESS **One Semester** **½ Credit**

Available to Juniors and Seniors.

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

530 - CHILD DEVELOPMENT **One Semester** **½ Credit**

Available to Sophomores, Juniors and Seniors.

In this course, students will study the principles of child growth, development and behavior. An emphasis will be place on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, theories of development, learning styles and evaluating childcare services.

TECHNOLOGY

543 – MINDSTORM ROBOTICS **One Semester** **½ Credit**

Students must be able to work in group dynamics and problem solve. Grades will be based on group projects.

This course involves application of processes and knowledge in the design, development and use of systems to manage and control devices. Products of student work in robotics may be descriptive and/or functional models of technology applications across all systems areas. A fee of $20.00 is required.

545 – VEX ROBOTICS **This course will be offered 1st Semester** **½ Credit**

Needs approval of instructor or incoming freshmen need a teacher recommendation from a science teacher. Must be able to attend at least one after school competition.

This course expands on the application of processes and knowledge in the design, development and use of systems to manage and control devices. Products of student work in robotics may be descriptive and/or functional models of technology applications across all systems areas. A fee of $20.00 is required.

546 – COMPUTER AIDED DESIGN I **One Semester** **½ Credit**

Open to students in grade 9-12 **$5.00 Fee**

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing, engineering, science and mathematics. Students will be using SketchUp Pro, AutoCAD, TinkerCad and Makerbot software as our Computer Aided Design platforms. Students will learn 3D printing basics using MakerBot and Prusa printers and various FDM materials.

547 - COMPUTER AIDED DESIGN II (Replaces Drafting II) **One Semester** **½ Credit**

Prerequisite: Computer Aided Design I **$5.00 Fee**

This course is focused on the principles, concepts, and the use of complex graphic tools utilized in the field of architecture, structural systems, and construction trades. Emphasis is placed on the application of CAD tools in the creation of floor plans, elevation drawings and product design and testing. Mathematical, scientific, and visual design concepts are reinforced. Students will work in teams on most projects. Additionally, students will use and maintain 3D printing systems independent of the teacher as needed.

571 - COMPUTER GRAPHICS I **One Semester** **½ Credit**

Open to students in grade 9-12 **$5.00 Fee**

This course will focus on the use of Adobe Photoshop, while learning the fundamentals of graphic design. Students will create real-world projects centered around what graphic artists do professionally. From desktop and phone wallpaper creation to exploring logos and print ads, students will gain the basic knowledge of the tools and concepts associated with graphic design.

572 - COMPUTER GRAPHICS II **One Semester** **½ Credit**

Prerequisite: Computer Graphics I **$5.00 Fee**

Students move forward with Photoshop while exploring Adobe Illustrator and will delve into more sophisticated design concepts. Students will complete projects in photo montage, corporate logos and web banners to name a few. Students will also utilize advanced pen input devices for more detailed and controlled works of graphic art.

573 - INTRODUCTION TO PROGRAMMING **One Semester** **½ Credit**

Open to students in grades 9-12

This course will introduce students to basic computer programming skills. Specifically, students will learn about If-Then programming concepts, basic JAVA and Python and other introductory level coding languages. Students will apply these skills to various digital projects such as websites and applications.

574 - DIGITAL MEDIA I **One Semester** **½ Credit**

Open to all students but prefer to have taken Computer Graphics I **$5.00 Fee**

This course will introduce students to concepts involving digital media creation and presentation. Students will learn about live streaming and broadcasting with JGHS Sports and News programming. Students will design and maintain digital signage, learn the basics of video and audio production, and create conceptual electronic billboard and scoreboard graphics and advertisements.

576 - COMPUTER BUILDING AND REPAIR **One Semester** **½ Credit**

Open to students in grades 9-12 **$15 Fee or Purchase of PC Repair Kit**

This course includes troubleshooting, repair, system/network reconfiguration, help desk practices, etc. Students will work in a support role with district IT staff and will act as a technology help desk for LMIS, Middle School and High School students and staff. Additionally, students will explore basics of computer hardware, software, operating systems and networking functionality. Possible certification can be obtained if optional competency exams are taken and passed.

BUSINESS

560 – GENERAL BUSINESS
An introductory course into one of the most popular college majors. Students will study business organization, management, economics, and international business.

563 – BUSINESS ADMINISTRATION STRATEGIC MANAGEMENT
Prerequisite: Must be enrolled in or have completed any business course

Students will plan, actualize, and run a real apparel/design business called the The Tank Shop. Students will design and produce various items for the school and community. All facets of business operations are covered in this course.

568 - ACCOUNTING I
Open to students in grades 11 & 12

This course is designed for students interested in studying business in college. The course will cover financial accounting for small business including creating financial statements.

569 - ACCOUNTING II
Open to students in grades 11 & 12 and with credit in Accounting I

A continuation of Accounting II in which students cover financial accounting and managerial accounting for corporations.

578 – FINANCIAL LITERACY
Open to students in grades 11 & 12

Financial Literacy is defined as the ability to read, analyze, manage, and communicate about personal financial conditions that affect one's material well-being. Students will learn how to make good financial decisions, discuss money, plan for the future including college and career planning, and respond to life events that affect every day financial decisions, including events in the economy.

700215 – PRINCIPLES OF MICROECONOMICS **This will be a year-long course**
Prerequisite: Must be accepted to Muskingum University.

This course concentrates attention on the determination of prices for goods and factors of production and consumer behavior. This is a required course for college business majors.

College Credit Hours: 3.0 *High School Credits:* 1

ARTS

540 – PHOTOGRAPHIC COMPOSITION **One Year 1 Credit Fee: $25.00 Equipment/Printing**
Students in Photographic Composition will develop their skills in producing artistic photographs and portraits using digital DSLR cameras, lenses, and lighting equipment. Students will learn to take digital photos with proper exposure using shutter speed, aperture, and ISO, along with rules of composition to enhance their ability to produce quality photography. Course content will include:

- Introduction to manual camera operations of shutter speed, ISO, and aperture
- Digital editing using Adobe Lightroom and Photoshop
- Lighting techniques in natural light, studio light environment, and off camera flash
- Digital file management and output for web and print production

610 – VISUAL CREATION **One Year 1 Credit Fee: $30.00 Art Materials and Tools**
This is an introductory course to the visual arts. Students in Visual Creation will focus on the seven elements of art, the principles of design, perspective drawing, and composition through a variety of art projects, media, and techniques. The course covers 2-dimensional art through drawing and design and allows students to develop individual style and creative problem solving skills. Lessons on art history, color theory, art criticism, art careers and visual communication are included throughout, but the main focus is studio time in which art projects are developed and completed. Visual Creation is a foundational course and prerequisite to enroll in other art courses.

612 – DRAWING 1 **One Semester ½ credit Fee: $22.00 Art Materials and Tools**
Prerequisite – Visual Creation with at least a C+

Students in Drawing 1 will further develop the concepts, skills, and techniques learned in Visual Creation to enhance artwork in two-dimensional design using a variety of different media. Two-dimensional media includes graphite, charcoal, pastels, color pencil, acrylic, watercolor, and ink techniques. Students in Drawing 1 will further develop their skills and knowledge of the Elements of Art, and begin to implement the Principles of Design to further develop dynamic compositions for audiences of both traditional, mixed media, and digital mediums.

614 – DRAWING 2 **One Semester** **½ credit** **Fee: $27.00 Art Materials and Tools**

Prerequisite – Visual Creation with at least a C+, recommended Drawing 1 with at least a C+

Students in Drawing 2 will further develop the concepts, skills, and techniques learned in Visual Creation and Drawing 1 to enhance artwork in two-dimensional design using a variety of different media. Students in Drawing 2 will further develop their skills and knowledge of creating artwork using the Elements of Art and Principles of Design, basic painting, and intro to digital drawing using Adobe Photoshop.

616 - ADVANCED ART **One Year** **1 credit** **Fee: $35.00 Materials, Tools, Printing/Matting**

Prerequisite – Visual Creation, Drawing 1 and/or 2

Advanced Art is for students who are highly motivated in visual design and wish to expand and enhance knowledge, skills, and conceptual thinking gained in Visual Creation and Drawing 1-2 courses. Students in this course will follow assignments to complete a small portfolio of work, and further develop individual style and conceptual ideas. Course content includes contemporary artist explorations, art history, art criticism, and art careers/post-secondary education options throughout, but the main focus is studio time in which art projects are developed and completed.

820 – ADVANCED PLACEMENT ART & DESIGN **One Year** **1 credit** **Fee: $35.00 Materials, Tools, Printing/Matting**

Prerequisite – Visual Creation, Drawing 1 and/or 2, Advanced Art

AP Art is ideal for students who will be studying art/design at the collegiate level, or is highly motivated in visual design. Students in this course will follow rigorous requirements and assignments to complete a large portfolio of work. Students will generate a body of work that represents their skills, conceptual thinking, and interests in choices of content and art media. It is possible for student portfolios to receive college credit if scored high enough by the AP College Board testing services.

PHYSICAL EDUCATION

6241/6242 - PHYSICAL EDUCATION **Choose 6241 for 1st semester or 6242 for 2nd semester**

Strength, endurance, ability, knowledge of the games, understanding the importance of exercise, carry-over activities that will be used the rest of a person's lifetime, high standards of sportsmanship and conduct are what we hope is gained from physical education. Both individual and team sports are offered as well as coeducational physical education, which we hope will have a carry-over value for the students. Class size limited to 20-24 students.

6261/6262 - ADVANCED CONDITIONING **Choose 6261 for 1st semester or 6262 for 2nd semester**

This course is designed for students who participate in interscholastic athletics and priority will be given to those students. Additionally, only incoming 9th graders and upper class students trying to fulfill their physical education requirement can enroll in this class. The purpose of the course is to increase strength, stamina, and agility in order to prevent injury and to increase performance. Weight lifting and intense physical conditioning will be required of all students enrolled in the class. Students must dress and participate. There is a $5.00 fee to help defray costs for disposable items (i.e. jump ropes, bands, mats, wraps, computer software, clips, instructional videos, belts, equipment maintenance).

MUSIC

642 - SYMPHONIC CHOIR

Prerequisite: ***New students wishing to take choir who were not enrolled in symphonic choir or middle school choir the previous school year are required to meet with the director and complete a formal audition before scheduling this class.***

Symphonic Choir is a yearlong course offered to students previously enrolled in middle school choir or symphonic choir. The purpose of this ensemble is to improve musicianship and develop advanced vocal techniques. All performances in concerts, contests and programs are required to fulfill the course. A variety of music will be chosen throughout the year including both sacred and secular literature.

646 - BAND

Students wishing to take Band must have at least 3 years' experience or the equivalent and the permission of the director. Students not meeting the first requirement may take Band with the understanding that they must do individual work outside of the class to meet the requirements while they are taking the course.

All students wishing to participate in band (Marching OR Concert) should enroll in the BAND 646 course. The marching band roster will be populated from interested students enrolled in the BAND 646 course.

MARCHING BAND

Marching Band meets several weeks periodically before school begins and during the fall term for football season only. The purpose of the group is to promote advanced instrumental techniques while striving for high achievement in group precision marching and performance. Participants are required to perform in all home and away football games, football pep assemblies, and parades, marching competitions, and performances as decided by the director. Remaining requirements are private practice to memorize competition show music, attendance at after school rehearsals as decided by the director, attendance at July/August rehearsals and attendance at Band Camp during the last full week in July.

CONCERT BAND

Concert Band is open to all advanced wind and percussion players. The purpose of the group is to improve total musicianship and develop advanced instrumental techniques on one or more instruments. All performances in concerts, contests, and festivals are required to fulfill course requirements. Music will be chosen from all styles available to the medium, selecting several classics in wind band literature to prepare for performance. Remaining requirements are private practice and periodic after school rehearsals January through April as decided by the director.

NOTE: Students may be in both band and orchestra with permission of the band and orchestra teachers. However, since band and orchestra are offered the same period, credit will be received for only one of the courses.

647 - ORCHESTRA

Prerequisite: Students wishing to take Orchestra must have at least 3 years experience or the equivalent. Students not meeting this prerequisite may take Orchestra with the understanding that they must do individual work outside of the class to meet the requirements while they are taking the course.

String players will have an opportunity to study extensive string orchestra literature during first semester. In the spring, selected wind and percussion players are invited to join the strings forming a full orchestra. The purpose of this course is study and performance of string symphony orchestra literature as well as independent musical growth for each member. Requirements include the ability and willingness to practice independently plus attendance at occasional extra rehearsals and all required contests, concerts and programs.

NOTE: Students may be in both band and orchestra with permission of the band and orchestra teachers. However, since band and orchestra are offered the same period, credit will be received for only one of the courses.

OTHER ELECTIVES

117 - BEGINNING PUBLIC SPEAKING

Open to students in grades 9-12

This elective course is designed for students to improve their public speaking skills. Students will present a variety of speeches (to inform, inspire, persuade, and entertain) during the semester. They will also learn about personal communication, group presentations, and the various roles of group members. In addition to speeches, students will learn some techniques for storytelling and oral interpretation of literature. It is hoped that students will feel comfortable in all communication situations.

118 - MEDIA PUBLICATIONS I

In this class students will be exposed to the basic concepts of written journalism. Most of the emphasis in the class will be on writing. Students will also be required to complete reading assignments.

Individualized instruction will be provided in such areas as writing news stories, feature stories, sports stories, editorials, column writing and interviewing techniques. Some students will also work on some desktop publishing. (Class size will determine the amount of experience they will obtain.) If the class size permits, students will gain some exposure to basic photography.

This course is a prerequisite for the Media Publications II class. Students may volunteer after school time to work on the newspaper or yearbook.

119 - MEDIA PUBLICATIONS II

Prerequisite: Media Publications I with at least a B- and recommendation of instructor.

Students in this class need to be highly motivated and capable of working independently.

Students will continue to develop their journalistic skills with assignments that relate to our school publications. Student editors will be assigned for the Jon Jee and Apogee and they will work with classmates to plan and prepare the year's publications.

All students in this class are expected to work after school on various aspects for school publications: reporting, photography, newspaper and/or yearbook layout, computer work for the yearbook, business duties, etc. **All** class members will be required to sell yearbook ads early in the school year.

120 – INTRODUCTION TO THEATRE

This is an introductory course designed to give students the skills to recognize contemporary theatrical practices and observe their historical lineage and cultural context. In doing so, this class also seeks to examine the relevance of theatre in modern life and subsequently teaches students to be appreciative audience members. The material will focus on key theatrical terms and dramatic concepts. Students will explore the major movements in dramatic literature from Greek Festival Theatre to American Naturalism to contemporary theatre. The course will consist of lectures, discussions, and participation opportunities, as well as reading and analyzing plays, viewing filmed versions of plays and attending a live theatrical event. During years in which a high school musical is being produced, enrolled students will be required to participate on the production crew.

648 –INTRODUCTION TO MUSIC THEORY

Prerequisite: Students wishing to take Intro to Music Theory must be able to read music in at least one clef. Previous choral or instrumental experience is encouraged.

This course will focus on melody, harmony, rhythm and ear training as it applies to written music composition. Students will learn chords, scales, key signatures, intervals, and other compositional techniques.

519 – GENERAL AGRICULTURE MECHANICS **Year-long course** **Open to students in grades 11-12** **1 Credit**

No prerequisite required. Have you ever thought – "I wish I could learn something I could actually use in life"? This is your course then. Throughout this course, students will examine basic theories of engine operation, plumbing systems, electrical systems, hydraulic and pneumatic systems, and residential building systems. In addition, students will explore current practices in plant and animal science to better understand current food, fiber and pharmaceutical production. This will be a fast paced, hands on course that explores content of which all adults should acquire a basic understanding. If independent living is one of your life goals, then this is your class!!

6281 – ATHLETIC TRAINING I

This class is offered to students in grades 10-12

Sports Medicine: Athletic Training is an introductory course into the health field of Athletic Training. This course has a classroom component and a clinical component. In the classroom, students will learn what Athletic Training is, Injury Prevention, Sports Nutrition, Protective Devices, Mechanisms of Injuries, Classification of Sports Injuries, Emergency Procedures, Taping and Bandaging, Anatomy and Physiology, Rehabilitation Methods, and Therapeutic Modalities.

The second component is the clinical component. Students will work with the licensed A.T. and be the "Athletic Training Student Assistants." Students will be required to work 8 hours per week in the training room and/or covering practices/games. In addition, students will be given the opportunity to attend clinics, observe surgery, and visit colleges/universities that offer athletic training educational programs.

6282 – ATHLETIC TRAINING II

This class is offered to students in grades 10-12 who have successfully completed Athletic Training I

This course will continue where Athletic Training I ended and will continue to include clinical experience.

6291/6292 – SPORT SPECIFIC TRAINING **Choose 6291 for 1st semester or 6292 for 2nd semester**

This class is offered to students in grades 10-12 and must have a signature from their Varsity Head Coach

This course is designed for student-athletes who want to train SPECIFIC to their sport or sports. Varsity coaches will provide in-season and out-of-season workouts that will give each athlete the opportunity to improve his/her performance during competition. THIS COURSE DOES NOT FULFILL A PHYSICAL EDUCATION REQUIREMENT. There will be a course fee of $5.00. **This is a ½ credit course (1 credit toward athletic eligibility).**

989 – EARLY RELEASE (SENIORS ONLY)

Early Release is a program for seniors who are currently in the workforce and working for a verifiable employer. The school will provide the student with early release for the last two (2) periods of the day if the following stipulations are completed and approved:

1. Complete the application and submit all required materials in a timely manner.
2. Be in good standing with regard to graduation requirements (EOC scores, cumulative credits, etc.)
3. Enroll in 5 credit bearing classes

ATHLETES: If you plan to participate in athletics, then you will surrender your early release status while you are in season.

Exceptions to the guidelines must be extraordinary, will be rare and must be agreed to by the administration.

COLLEGE CREDIT PLUS CLASSES OFFERED THROUGH MUSKINGUM UNIVERSITY AT JGHS

Students who meet the qualifications for these classes will receive both high school and college credit. See page 7 for specific requirements.

700190 –CALCULUS I **This will be a year-long course**

Prerequisite: MATH 180 at Muskingum University or ACT Math 24 or higher or SAT Math 576 or higher. Must be accepted to Muskingum University.

This course introduces the concepts of limit, continuity, derivative, integral, and applications. It assumes some knowledge of trigonometric functions and equations for lines and conic sections.

College Credit Hours: 4.0 *High School Credits:* 1

700215 – PRINCIPLES OF MICROECONOMICS **This will be a year-long course**

Prerequisite: Must be accepted to Muskingum University.

This course concentrates attention on the determination of prices for goods and factors of production and consumer behavior. This is a required course for college business majors.

College Credit Hours: 3.0 *High School Credits:* 1

COLLEGE CREDIT PLUS CLASSES OFFERED THROUGH ZANE STATE COLLEGE AT JGHS

Students who meet the qualifications for these classes will receive both high school and college credit. See page 7 for specific requirements.

901070 – ENVIRONMENTAL SCIENCE

Prerequisites: A grade of B or better in Biology is suggested. Complete the Accuplacer Test and be accepted to Zane State College.

This 3 credit, Zane State course focuses on basic biological and ecological concepts, and applies these to environmental issues. Topics covered include: the scientific method, sustainability, stewardship, ecological principles, population dynamics, biological diversity, energy, human populations, pollution and environmental health. Walking to outdoor lab locations will be required. Course format includes power point lectures, small text assignments, labs, environmental science news article discussions, tests, a few research projects and possible field trips. This course also counts towards earning an Honors Diploma.

Many universities require one science course for non-science majors. This course will satisfy that requirement at most colleges and universities, and it will at least count as an elective for science majors. See BIOL 1070 at zanestate.edu.

College Credit Hours: 3.0 *High School Credits*: 1.0

901500 - COMPOSITION I **This will be a year-long course**

Prerequisite: Complete and pass the Zane State Accuplacer Test and be accepted to Zane State College

This course emphasizes the writing and revising process with essay mastery as the primary goal. Students read literary examples as models and write in descriptive, narrative, expository, persuasive and poetic modes. The works studied will include novels, short stories, poetry and drama. The writers studied will span from Wordsworth to Dickens, Shelley to Keats and Austen. A research essay written in APA style is a requirement to successfully complete this course.

College Credit Hours: 3.0 *High School Credits:* 1

FEE SCHEDULE

All fees are **approximate**. Class fees will be finalized prior to the start of the 2021-2022 school year.

Arts

Visual Creation		30.00
Drawing 1		22.00
Drawing 2		27.00
Advanced Art		35.00
AP Art & Design		35.00
Photographic Composition		25.00

Business

Accounting I		20.00

Family and Consumer Science

Food Science		25.00
Global Foods		25.00
Personal Wellness		25.00

Language Arts

Accelerated English 9		10.00
Accelerated English 10		10.00
Honors English 10		10.00
English 10		10.00
English 11		11.00
English 12		10.00

Mathematics

Accelerated Pre-Calculus	TI84 PLUS Graphing Calculator	approximately 120.00

Physical Education

Advanced Conditioning		5.00
Physical Education		5.00

Science

Anatomy & Physiology		20.00
Biological Anthropology		20.00
Biology		12.00
Honors Biology		20.00
Chemistry I		15.00
AP Chemistry		20.00
Ecology		20.00
Forensic Science		30.00
Physical Science		12.00
Physics		15.00
Zoology		20.00

Technology

Computer Aided Design I and II		5.00
Computer Building and Repair		15.00
Computer Graphics I and II		5.00
Digital Media I		5.00
Mindstorm Robotics		20.00
Vex Robotics		20.00

Other

Athletic Training I		35.00
Athletic Training II		10.00
Sport Specific Training		5.00