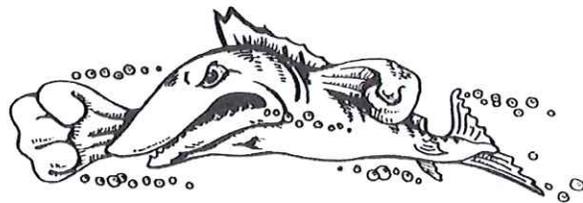


JOHN GLENN
HIGH SCHOOL



2024-2025

CURRICULUM GUIDE

**JOHN GLENN HIGH SCHOOL
CURRICULUM GUIDE
AND
REGISTRATION GUIDE
2024-2025**

This booklet contains information about the courses offered at John Glenn High School and the procedures for class registration for 2024-2025. It is the privilege of the student and their parents/guardians 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 2024-2025. This book can be retrieved either in Google Classroom or at www.eastmschools.org.

Mrs. Susan Snively
11th and 12th Grade Counselor
ssnively@eastmschools.org
740-826-7641

Mrs. Heidi Gearhart
9th and 10th Grade Counselor
hgearhart@eastmschools.org
740-826-7641

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**JOHN GLENN HIGH SCHOOL COURSE REQUIREMENTS FOR GRADUATION
CLASSES OF 2025 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, 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	Class of 2025 must receive instruction in grades 9-12. Class of 2026 and beyond – .50 credit of financial literacy
Total	21 Credits

Any student who has not completed two or more graduation requirements will not be permitted to participate in graduation ceremonies.

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

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

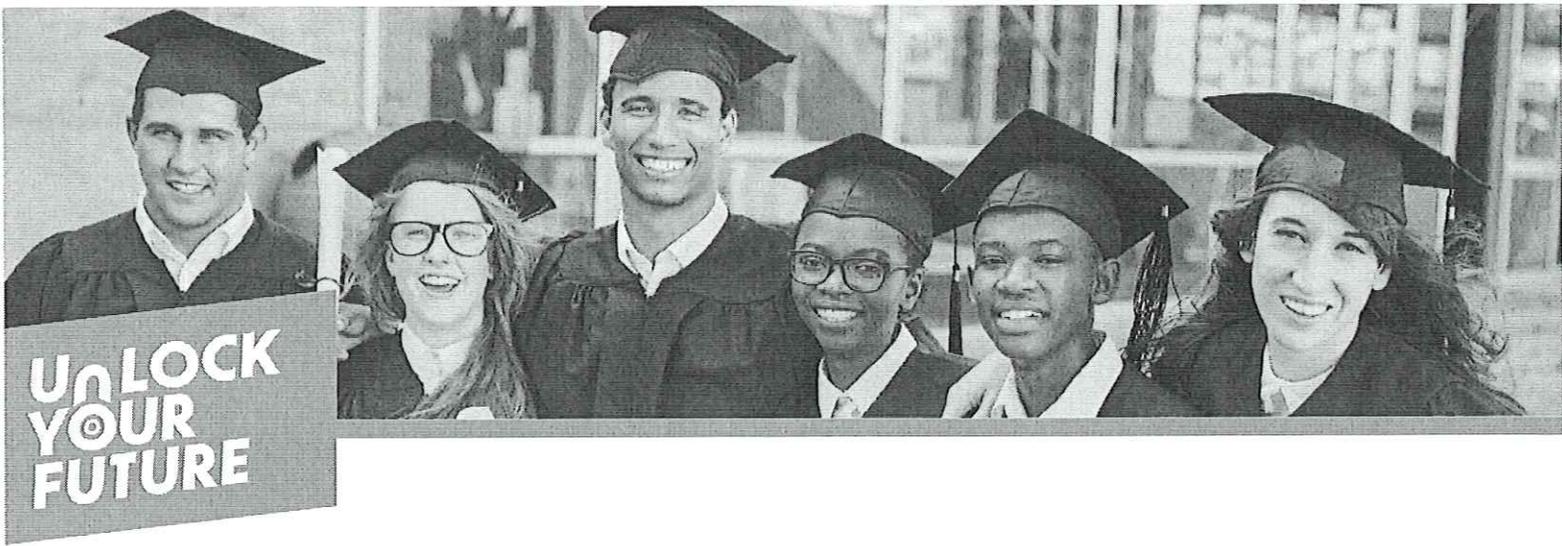
Business: Accounting I, Accounting II, Business Administration Strategic Management, Financial Literacy, General Business, Marketing Principles & Entrepreneurship, Microeconomics

Foreign Language: Spanish

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

Technology: Computer Aided Design, Computer Graphics, Digital Media, Computer Building and Repair, Robotics, Computer Science, Agricultural and Environmental Systems Capstone, AP Computer Science

****Detailed Graduation Pathway information follows on pages 2-3.**



OHIO'S GRADUATION REQUIREMENTS

CLASS OF 2023 AND BEYOND

Ohio's long-term graduation requirements take effect for the class of 2023. For students entering ninth grade on or after July 1, 2019, Ohio's new high school graduation requirements provide more flexibility to choose a graduation pathway that builds on a student's strengths and passions – one that ensures students are ready for their next steps after high school. Students in the classes of 2018 through 2022 may also use these requirements as a pathway to graduation.

As a part of this pathway to graduation, students must show that they have completed all three parts of these requirements.

1. Credit Requirements:

Students must earn a minimum total of 20 credits in specified subjects and take your required tests. Schools can locally require more than 20 credits. Schools are still required to administer all the high school end-of-course assessments. These are: English Language Arts II, Algebra I (or Integrated Math I), Geometry (or Integrated Math II), Biology, American History, and American Government.

2. Competency:

Students can demonstrate competency by earning a passing score on Ohio's high school Algebra I (or Integrated Math I) and English language arts II tests. Students who do not pass the test will be offered additional support and must retake the test at least once. If students have not met the competency score on these tests, there are four additional ways to show competency.

Option 1	Option 2	Option 3	Option 4	Option 5
Algebra I and ELA II	Career Readiness	College Credit Plus	Military Enlistment	ACT or SAT

Refer to the back of this page for a brief discription of each option.

Option 1. To demonstrate competency using Ohio’s state tests, students must earn a score of 684 or above on both the Algebra I (or Integrated Math I) and English language arts II end-of-course exams.

Option 2. To demonstrate competency by Career Readiness, students must demonstrate two career-focused activities, at least one must be a foundational option.

- Foundational options: 1. Cumulative score of proficient on 3 or more WebXams. 2. Earn 12-points of industry credential. 3. Complete a registered pre-apprenticeship, an apprenticeship, or show evidence of acceptance into an approved apprenticeship. 4. State-issued license for a practice in a vocation.
- Supporting options: 1. Work-Based Learning. 2. Earn the workforce readiness score on the Workkeys. 3. Earn the OhioMeansJobs Readiness Seal

Option 3. To demonstrate competency through the College Credit Plus Program, students must earn credit in a non-remedial math or English course for the subject area not passed.

Option 4. To demonstrate competency through Military Enlistment, students must provide evidence of enlistment in a branch of the armed forces to demonstrate competency.

Option 5. To demonstrate competency using the ACT or SAT, students must obtain a remediation-free score in the math and/or English subject area on the ACT or SAT. To demonstrate competency in English, a student must be remediation-free in the subjects of English and reading on the ACT or SAT.

3. Readiness:

Students can meet the readiness requirement by earning two diploma seals. In alignment with their graduation plan, students should be choosing seals that align with their goals and interests. These seals give students the chance to demonstrate academic, technical and professional skills and knowledge that align to their passions, interests and their post-high school pathway.

Of the two seals students are required to earn, at least one of the two must be State-Defined. Ohio’s 12 diploma seals are:

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

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 the priority deadline established during 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/guardians 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
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 may 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 **Monday, April 1, 2024**. An Intent to Participate form **MUST** be completed by all students, even those who have already participated previously.

When enrolling for college credit plus, you must choose between two options. Option A states that students can elect to receive only college credit or receive both high school and college credit. The student will be responsible for tuition and books. Unless an approved Tuition Waiver request is on file with the Ohio Department of Education, student pays standard tuition rate. Option B states that students receive both high school and college credit.

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.

Must be a full-time student each semester

- 10 - 12 hours or more of CCP courses is considered full time.
- 8 - 9 hours of CCP courses and 1 or more HS courses is considered full time.
- 4 - 7 hours of CCP courses and 3 or more HS courses is considered full time.
- 1-3 hours of CCP courses and 4 or more HS courses is considered full time.

During the 2024-25 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 Ohio University

Intro to Sociology SOC 1000	Fall Semester	OU Faculty
Intro to Child Development EDEC 1600	Fall Semester	OU Faculty
Fundamentals of Public Speaking COMS 1030	Spring Semester	OU Faculty
Intro to Social Work and Social Welfare SW 1000	Spring Semester	OU Faculty

Courses Offered at JGHS through Zane State College

Composition I ENGL 1500	Year Long	JGHS Faculty
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Courses Offered at JGHS through Muskingum University

Calculus I MATH 190	Year Long	JGHS Faculty
Principles of Microeconomics ECON 215	Year Long	JGHS Faculty
Environmental Science BIOL 106	Year Long	JGHS Faculty

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 proposals should be submitted by the **deadline of August 7, 2024.**

Spring Credit Flexibility proposals should be submitted by the **deadline of January 6, 2025.**

Summer Credit Flexibility proposals should be submitted by the **deadline of May 9, 2025.**

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.

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.

<u>Class</u>	<u>Minimum Earned Credits for Membership</u>
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.

<u>Example: 1st nine weeks</u>	<u>2nd nine weeks</u>	<u>Semester Exam</u>
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.

<u>Example: 1st nine weeks</u>	<u>2nd nine weeks</u>	<u>Sem. Exam</u>	<u>3rd nine weeks</u>	<u>4th nine weeks</u>	<u>Sem. Exam</u>
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.

AWARDS AVAILABLE TO SENIORS

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.

Ohio High School Honors Diploma

You may visit <https://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Contacts-and-Resources/Honors-Diplomas> to review the specific criteria.

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

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

REGISTRATION

Registration is the procedure by which the student indicates their 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/guardians are encouraged to think seriously about course selections, as these choices determine staffing decisions and the number of class sections that are offered.

During February/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 parent/guardian 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 six 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/guardian 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/guardian 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/guardians 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 2024-2025. 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
<u>LANGUAGE ARTS CURRICULUM</u>				
Y 101	ACCELERATED ENGLISH 9	9	1	15
Y 1021	ENGLISH 9	9	1	15
Y 104	ACCELERATED ENGLISH 10	10	1	15
Y 105	ENGLISH 10	10	1	15
Y 106	HONORS ENGLISH 10	10	1	15
Y 107	ACCELERATED ENGLISH 11	11	1	15
Y 108	ENGLISH 11	11	1	15
Y 109	HONORS ENGLISH 11	11	1	15
Y 110	ACCELERATED ENGLISH 12	12	1	16
Y 111	ENGLISH 12	12	1	16
Y 818	ADVANCED PLACEMENT ENGLISH LIT & COMPOSITION	12	1	16
Y 901500	COMPOSITION I (ENGL 1500)	7-12	1	16
S 125	FOLK TALES, FAIRY TALES, and MYTH	9-10	½	16
S 126	TOTALLY EPIC: HERO STORIES FROM AROUND WORLD	9-10	½	16
Y 817	AP SEMINAR (elective)	10	1	16
<u>SOCIAL STUDIES CURRICULUM</u>				
Y 210	WORLD HISTORY	9	1	17
Y 212	AMERICAN HISTORY	10	1	17
Y 214	HONORS AMERICAN HISTORY	10	1	18
Y 816	ADVANCED PLACEMENT U.S. HISTORY	10-12	1	18
S 224	HISTORICAL CINEMA	10-12	½	18
S 225	CURRENT EVENTS	9-12	½	18
Y 236	AMERICAN GOVERNMENT	11	1	18
Y 819	ADVANCED PLACEMENT U.S. GOVERNMENT	11, 12	1	18
Y 822	ADVANCED PLACEMENT PSYCHOLOGY	11, 12	1	18
Y 700215	PRINCIPLES OF MICROECONOMICS (ECON 215)	7-12	1	19
<u>MATHEMATICS</u>				
Y 314	ALGEBRA I	9	1	19
Y 315	GEOMETRY	10	1	19
Y 316	APPLIED MATH	11	1	19
Y 317	ALGEBRA II	12	1	19
Y 320	ACCELERATED ALGEBRA I	9	1	19
Y 322	ACCELERATED GEOMETRY	9, 10	1	19
Y 326	ACCELERATED ALGEBRA II	10, 11	1	19
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
<u>NATURAL SCIENCES</u>				
Y 3411	PHYSICAL SCIENCE	9	1	20
Y 342	HONORS BIOLOGY	10	1	20
Y 343	BIOLOGY	10	1	20
Y 345	ZOOLOGY	11, 12	1	21
Y 346	CHEMISTRY	10-12	1	21
Y 824	ADVANCED PLACEMENT CHEMISTRY	11, 12	1	21
Y 348	PHYSICS	11, 12	1	21
Y 349	ANATOMY & PHYSIOLOGY	11, 12	1	21
Y 350	ECOLOGY	11, 12	1	21
Y 354	FORENSIC SCIENCE	11, 12	1	21
Y 700106	ENVIRONMENTAL SCIENCE (BIOL 106)	7-12	1	22

FOREIGN LANGUAGES**SPANISH**

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

AGRICULTURAL SCIENCE AND TECHNOLOGY

Y	510	AGRICULTURE, FOOD & NATURAL RESOURCES	9	1 ¼	22
Y	512	ANIMAL AND PLANT SCIENCE	10-12	1 ¼	23
Y	516	MECHANICAL PRINCIPLES	10-12	1 ¼	23
Y	519	GENERAL AGRICULTURAL MECHANICS	11, 12	1	23
Y	511	BBQ SCIENCE	11-12	1 ¼	23
Y	518	AGRICUL. & ENVIRON. SYSTEMS CAPSTONE	12	1 ¼	23

FAMILY AND CONSUMER SCIENCES

S	5241	FOOD SCIENCE	10-12	½	23
S	5242	GLOBAL FOODS	10-12	½	23
S	526	PERSONAL WELLNESS	9-12	½	23
S	5291	CAREER and COLLEGE READINESS	11, 12	½	23
S	530	CHILD DEVELOPMENT	9-12	½	24

TECHNOLOGY

Y	543	VEX ROBOTICS	9-12	1	24
S	546	COMPUTER AIDED DESIGN I	9-12	½	24
S	547	COMPUTER AIDED DESIGN II	9-12	½	24
S	571	COMPUTER GRAPHICS I	9-12	½	24
S	572	COMPUTER GRAPHICS II	9-12	½	24
Y	573	COMPUTER SCIENCE	9-12	1	24
S	574	DIGITAL MEDIA I	9-12	½	24
S	576	COMPUTER BUILDING and REPAIR	9-12	½	24
Y	821	ADVANCED PLACEMENT COMPUTER SCIENCE PRINC	10-12	1	25

BUSINESS

S	560	GENERAL BUSINESS	9-12	½	25
S	563	STRATEGIC BUSINESS ADMINISTRATION	9-12	½	25
Y	564	MARKETING PRINCIPLES & ENTREPRENEURSHIP	9-12	1	25
S	568	ACCOUNTING I	11, 12	½	25
S	569	ACCOUNTING II	11, 12	½	25
S	578	FINANCIAL LITERACY	11, 12	½	25
Y	700215	PRINCIPLES OF MICROECONOMICS (ECON 215)	7-12	1	25

ARTS

S	540	PHOTOGRAPHY	9-12	½	26
S	541	ADVANCED PHOTOGRAPHY	9-12	½	26
Y	610	VISUAL CREATION	9-12	1	26
S	612	DRAWING 1	10-12	½	26
S	614	DRAWING 2	10-12	½	26
Y	616	ADVANCED ART	11,12	1	26
Y	820	AP ART & DESIGN	12	1	26

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	643	JG COMPANY	9-12	1	27
Y	646	BAND	9-12	1	27
Y	647	ORCHESTRA	9-12	1	27

OTHER ELECTIVES

S	6281	ATHLETIC TRAINING I	10-12	½	28
S	6282	ATHLETIC TRAINING II	10-12	½	28
S	590	COMMERCIAL DRIVER'S TRAINING (CDL)	12	½	28
S	580	DRONE TECHNOLOGIES	10-12	½	28
S	622	HEALTH	9-12	½	28
S	648	INTRODUCTION TO MUSIC THEORY	9-12	½	28
S	120	INTRODUCTION TO THEATRE	9-12	½	29
S	1181/1182	MEDIA PUBLICATIONS	9-12	½	29
S	6251/6252	SPORT SPECIFIC TRAINING	10-12	½	29
Y	621	TEEN LEADERSHIP	11, 12	1	29
Y	989	WORK RELEASE	11-12	0	29

ADVANCED PLACEMENT COURSES

Y	820	ADVANCED PLACEMENT ART & DESIGN	12	1	26
Y	824	ADVANCED PLACEMENT CHEMISTRY	11, 12	1	21
Y	821	ADVANCED PLACEMENT COMPUTER SCIENCE PRINC	10-12	1	25
Y	818	ADVANCED PLACEMENT ENGLISH LIT & COMP	12	1	16
Y	822	ADVANCED PLACEMENT PSYCHOLOGY	11, 12	1	18
Y	817	ADVANCED PLACEMENT SEMINAR	10	1	16
Y	819	ADVANCED PLACEMENT U.S. GOVERNMENT	11, 12	1	18
Y	816	ADVANCED PLACEMENT U.S. HISTORY	10-12	1	18

COLLEGE CREDIT PLUS CLASSES OFFERED THROUGH MUSKINGUM UNIVERSITY

Y	700190	CALCULUS I (MATH 190)	7-12	1	30
Y	700106	ENVIRONMENTAL SCIENCE (BIOL 106)	7-12	1	30
Y	700215	PRINCIPLES OF MICROECONOMICS (ECON 215)	7-12	1	30

COLLEGE CREDIT PLUS CLASSES OFFERED OHIO UNIVERSITY

S	801000	INTRODUCTION TO SOCIOLOGY (SOC 1000)	7-12	1	30
S	801600	INTRODUCTION TO CHILD DEVELOPMENT (EDEC 1600)	7-12	1	30
S	801030	FUNDAMENTALS OF PUBLIC SPEAKING (COMS 1030)	7-12	1	31
S	8010SW	INTRO TO SOCIAL WORK and SOCIAL WELFARE (SW 1000)	7-12	1	31

COLLEGE CREDIT PLUS CLASSES OFFERED THROUGH ZANE STATE COLLEGE

Y	901500	COMPOSITION I (ENGL 1500)	7-12	1	31
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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 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) or teacher recommendation

The Advanced Placement English Literature and Composition course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. By enrolling in this course, it is expected that you will take the AP test.

901500 - COMPOSITION I

Prerequisite: Must 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. Multiple APA style research essays will be a requirement to successfully complete this course.

College Credit Hours: 3.0

High School Credits: 1

125 - FOLK TALES, FAIRY TALES, and MYTH

One semester ½ credit

Open to freshmen and sophomores

Since prehistoric times, people have passed important stories down from generation to generation. As time moved from prehistory (before writing) into history (the written age), these stories were written down so that others could learn from them and enjoy them. All these stories—myths, legends, folktales, and fairy tales—serve a distinct purpose in the literature of the world. Students who take this project-based course will be able to examine the relationship between ancient mythology and modern storytelling; investigate the definition of myths and their role in human culture; distinguish the different types of myths; compare folklore, legends, and folktales; and understand the defining characteristics of fairy tales. Credit for this course does not fulfill the English credit requirement for graduation.

126 - TOTALLY EPIC: HERO STORIES FROM AROUND THE WORLD

One semester, ½ credit, Open to freshmen and sophomores

Marvel Cinematic Universe knows how to create popular and compelling hero stories, but they didn't invent the concept. Every culture in every time and space has its own hero stories passed down over generations using the genre of the epic. This project-based course introduces some of the world's great works of epic literature and the heroes and adventures they feature. The central point for this course will cover epic heroes, storytelling techniques, literary archetypes, cultural values, and literary terms and epic conventions. Students will read selections from world epics and study the cultures from which they originate. Credit for this course does not fulfill the English credit requirement for graduation.

817 – AP SEMINAR

This is an elective course open to 10th grade students.

Develop and practice the skills in research, collaboration, and communication that you'll need in any academic discipline. You'll investigate topics in a variety of subject areas, write research-based essays, and design and give presentations both individually and as part of a team. This course builds cross-curricular skills and is student-interest driven. Students who successfully complete the AP Seminar course and portfolio can receive college credit. By enrolling in this course, it is expected you will take the AP test and submit the AP portfolio.

Credit for this course does not fulfill an English credit requirement for graduation.

Characteristics of English Courses and Students			
	Regular	Accelerated	Honors/AP/Comp
Course Content	Survey course of literature, composition, speaking, and listening designed to reinforce basic skills to prepare for a variety of post-secondary options	College prep curriculum guides the pace, for the motivated student who needs a challenge	College curriculum guides the pace and expectations
Enthusiasm for Subject Matter	Recognizes the need for and importance of reading and writing for post-secondary opportunities	Enjoys reading and discussing literature and writing as a form of self-expression	Enjoys reading and discussing literature and the artistic impulse behind it and writing as a form of self-expression and analysis
Learning Independence, Desire to Exceed	Willing to meet class requirements, but may need additional support	Desire to excel at meeting class requirements	Eager to exceed class requirements in preparation for continuing to a four-year university
Work Habits, Willingness to Study	Timely completion of all work assigned; minimal homework	Timely, thoughtful, careful completion of all work. Independent study expected. Average of 2-3 hours of homework weekly.	Timely, thoughtful, careful completion of all work. Independent study is mandatory. Average of 5-6 hours of homework weekly.
Writing Ability	Basic understanding and use of capitalization, complete sentences, paragraph structure, and punctuation	Advanced application of mechanics, usage, grammar, and spelling to independently analyze, compose, edit, and revise, focusing on the college essay	Thorough mastery of mechanics, usage, grammar, and spelling. Ability to analyze and synthesize content independently in a multi-page, research-based composition approaching college-level standards.
Reading Habits	Reads when assigned	Reads independently as assigned and for pleasure	Reads independently as assigned, for pleasure, and to supplement background knowledge
Average Reading Requirements (Daily)	Completed in class unless a student needs extra time or review. Independent reading for pleasure is encouraged.	15-20 pages* for 9 th -10 th 20-25 pages* for 11 th -12 th *Depending on difficulty	35 pages* *Depending on difficulty
Summer Reading Requirements	None	None assigned, but pleasure reading encouraged	Up to 2 full-length texts

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 this time period, students will sharpen their skills relating to geographical differences, cultural perspectives, economic systems, social tendencies, governmental developments, as well as analyzing primary and secondary sources from various perspectives to draw historical conclusions.

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 key concepts and documents which form the basis for the United States of America. These key concepts include American Industrialization, Immigration, Urbanization, and Imperialism. Students will also explore 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, as well as The Federalist and Anti-Federalist Papers.

212 – AMERICAN HISTORY

Tenth grade students will chronologically study the history of the United States of America with emphasis on both domestic and foreign affairs from 1877 to the present. In addition, emphasis will be placed on historical documents that helped shape the United States, applying concepts of the earlier Enlightenment movement to the application of the US Constitution. Students will study Industrialization, Progressivism, American Imperialism, World War I, the Roaring Twenties and the Great Depression, World War II, the Cold War, the Civil Rights Movement, the Vietnam War era, as well as Contemporary Issues and Conflicts as America has entered a new century. As students study historic eras, they'll consider the geographic, political, social, and cultural changes that have occurred as well as build on their understanding of primary and secondary sources to develop a deeper understanding of their role as citizens and to expand their social studies skills.

214 – HONORS AMERICAN HISTORY

Prerequisite: Students must have an A- or higher in World History and a B or higher in Accelerated English 9

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.

816 – ADVANCED PLACEMENT U.S. HISTORY

Prerequisite: Students must have an A in World History and a B or higher in Accelerated English 9

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. By enrolling in this course, it is expected that you will take the AP Test.

224 – HISTORICAL CINEMA Open to students in grades 10-12 One semester ½ credit

This elective course offers students a unique way to view history through the cinematic lens. This course is designed to educate you through film analysis to gain an understanding of some of the major historical events and circumstances that have shaped the world we live in today. Each topic discussed is broken down into three categories --- First, students will have some form of introductory reading/lecture to create a framework of understanding the time period from which a film is depicted. Second, students will view the film. Finally, students will be assessed. Assessments may include discussion questions, film reviews, or composition work designed around honing student writing and revision skills. In addition to historical accounts, students may also explore character development, conflict, theme, symbolism, foreshadowing, as well as geographic, social, or cultural settings present in each film.

Some of the films shown throughout the course are Rated R and will contain situations of violence and/or other mature depictions to accurately portray a historical event or era. As such, parental permission slips are a requirement for this course.

225 – CURRENT EVENTS Open to students in grades 9-12 One semester ½ credit

This elective course discusses political, social, and economic issues both domestically and around the world. Various forms of media, including magazines, newspapers, videos, and other periodicals from the Internet, will be used as resources to brief students on both current world events as well as past historical content. Issues such as the environment, technology, social and popular culture, as well as the application of life lessons for students will also be discussed. An emphasis will be placed on the proper use of the Internet for current information and the recognition of potential bias in the media from both liberal and conservative points-of-view. There will be daily reading assignments and videos posted via Google Classroom in addition to open-note assessments based on those readings and videos.

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.

819 – ADVANCED PLACEMENT UNITED STATES GOVERNMENT & POLITICS

Prerequisite: Students must have a B or higher AP United States History or an A- or higher in Honors American History or an A in American History with a teacher recommendation and a B or higher in Accelerated or Honors English 10

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. By enrolling in this course, it is expected that you will take the AP Test.

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 consistent with the AP Board guidelines which states students should be able to read a college-level textbook and write grammatically correct, complete sentences. 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 throughout the year are the following topics: linear functions, complex numbers, matrices, logarithms, systems of equations, factoring, quadratic functions, exponentials, and rational functions.

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 \$20 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 \$15.00 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

Prerequisite: Must have a B- or better in Algebra II or be taking it concurrently. Sophomores wanting to take chemistry must have earned 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 \$20.00.

348 - PHYSICS

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

Physics is an algebra-based, introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy and power; mechanical waves and sound; and introductory, simple circuits. Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. No prior course work in physics is necessary. There is a \$20 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.

354 – FORENSIC SCIENCE

Introduction to Forensic Science introduces the student to the various 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. Studying forensic science will expose you to graphic imagery, disturbing case details, and discussions of violent crimes. Your commitment to maturity and work ethic is vital to your success in this class.

Juniors wanting to take the class need to have a B average in their biology class and have their biology teacher fill out a recommendation rubric. Seniors will be given priority over juniors in the case of large class sizes. The fee for this class will be \$30.00.

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 \$30 lab fee.

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

700106 - ENVIRONMENTAL SCIENCE

Prerequisites: Must be accepted to Muskingum University

This 4-credit, Muskingum University 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, human populations, energy, pollution, toxicology, and environmental health. Many labs include walking to outdoor locations. Course format includes PowerPoint lectures, labs, environmental science news article discussions, tests, a few PowerPoint presentations, and possible field trips. This course counts towards earning an Honors Diploma as well as a graduation seal in Science. *Note:* Most 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.

College Credit Hours: 4.0

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 and there is another option, it will be encouraged that you take something else. This class is not for heritage speakers.

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. This class is not for heritage speakers.

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. This class is not for heritage speakers.

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. This class is not for heritage speakers.

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 students in grades 10-12

Prerequisite: Ag Food & 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 students in grades 10-12

Prerequisite: Ag Food & 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.

511 – BBQ SCIENCE – Open to students in grades 11-12

Prerequisite: Must have a signature from Mr. Spiker to schedule.

Students will learn meat science through investigating methods to prepare various meat products. Students will gain experience in matching proper cooking methods with different muscles to produce wholesome and palatable products. Students will be introduced to product sensory techniques. There will be a \$30 fee for this course.

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!!

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

Prerequisite: Ag Food & Natural Resources and another Agriculture course

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.

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. There will be a fee of \$25.

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. There will be a fee of \$25.

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.

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 Freshmen, 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 – VEX ROBOTICS****Open to students in grades 9-12. Freshmen will need a recommendation from one of their 8th grade teachers.**

Vex Robotics is a yearlong class where students will design, build and program robots. Students will be working in small teams to compete with other classmates and other teams from around the area. Students will be required to keep a log book over the design and evolution of their robots. Students will also be required to attend at least one robotic competition at Zane State College where they will compete against other schools. A fee of \$25.00 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 – COMPUTER SCIENCE**Year-long course****1 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 and basic JAVA. 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 for 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.

821 - AP COMPUTER SCIENCE PRINCIPLES**Year-long****1 credit****Prerequisite - Must have completed Geometry with a C average or higher, or Intro to Programming with an A average.**

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

BUSINESS**560 – GENERAL BUSINESS****One semester****½ credit**

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

563 – STRATEGIC BUSINESS ADMINISTRATION**One semester****½ credit****Prerequisite: C or above in Computer Graphics I or Strategic Business Administration (taken in a previous year)**

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.

564 – MARKETING PRINCIPLES & ENTREPRENEURSHIP (Formerly Sports & Entertainment Marketing) **Year-long** **1 credit**

Using sports, entertainment, pop culture, and current events, students will learn the concepts of marketing and entrepreneurship. This will be done through hands-on activities, projects, and games. Students will create a business idea from start to finish. Topics covered include marketing basics, social media marketing, and the entrepreneurial mindset.

If a student took Entrepreneurship or Sports Marketing prior to the 2023-2024 school year, they can still take this course.

*This class is highly recommended for any student planning to study business in college.

568 - ACCOUNTING I**One semester****½ credit****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. *This class is highly recommended for any student planning to study business in college.

569 - ACCOUNTING II**One semester****½ credit****Open to students in grades 11 & 12 with credit in Accounting I**

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

*This class is highly recommended for any student planning to study business in college.

578 – FINANCIAL LITERACY**One semester****½ credit****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 – PHOTOGRAPHY One semester ½ credit Fee: \$25.00 Equipment/Printing

Students in Photography 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
- Lighting techniques in natural light and studio light environment
- Digital file management and output for web and print production

541 – ADVANCED PHOTOGRAPHY One semester ½ credit Fee: \$30.00

Prerequisite – Photographic Composition (or Photography as established in the 2023-2024 school year) with at least a B+ and teacher recommendation.

Students in this course will further develop the technical skills and creative concepts learned in Photography. Students will focus on more advanced skills required in the photography industry, including sync-flash and off camera flash. Students will be introduced to the business side of photography and further explore and practice specific careers in the photography industry. This course will have a strong emphasis on:

- Product Photography – photography designed to sell goods
- Commercial Photography – photography used for business or publication purposes

In addition to assigned career paths and projects, students in this course will have an opportunity to research, develop, and practice projects related to photography careers of personal interest, which could include specializing in a particular product (i.e. food), or client based portrait careers (i.e. family portraits, senior portraits), photojournalism, etc.

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, and intro to digital drawing using Adobe Photoshop.

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

Prerequisite – Visual Creation, and Drawing 1 and 2 with at least a C+

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 Year-long 1 credit Fee: \$35.00 Materials, Tools, Printing/Matting

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

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. Recommended for seniors only.

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

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 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.

643 – JG COMPANY (Select Vocal Ensemble)

Prerequisite: Must go through a formal audition that will occur in February

JG Company is a year-long course offered to students who are selected through a formal audition process. This mixed ensemble will provide student musicians exposure to advanced choral techniques and advanced choral literature. JG Company will coincide with Symphonic Choir performances, along with many additional performances throughout the year. Attendance at all concerts, contests and programs are required to fulfill the course.

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 summer 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. The purpose of this course is the study and performance of orchestra literature, as well as independent and 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 directors. However, since band and orchestra are offered at the same time, credit will be received for only one of the courses.

OTHER ELECTIVES

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.

590 - COMMERCIAL DRIVER'S TRAINING (CDL) This course will be offered 2nd semester.

Prerequisite: Must be a senior with a valid driver's license

Limited Seats Available

This course is designed to prepare students to pass the State of Ohio Commercial Driver's License (CDL) test as well as succeed in the trucking industry as a high demand, professional truck driver. Driving time occurs after students complete the JGHS coursework, turn 18, and graduate high school.

Students will:

1. Develop a working knowledge of commercial vehicle operations, air brake systems, safety practices, and federal rules and regulations
2. Work with state licensed driving professionals to obtain a Commercial Driver's License
3. Experience extensive practice range, on-road, and highway driving
Students who complete this class coursework at JGHS in a satisfactory manner will qualify for on-the-road driving instruction in partnership with Mid-East CTC.
4. Per CDL licensing requirements and applicable state law, students will have to submit to, and pass, a random drug test to complete all compliance requirements and components of this course and to be issued an Ohio CDL license.

580- DRONE TECHNOLOGIES One semester ½ credit

This engaging course aims to cultivate students' enthusiasm for drones and unveil the multitude of job opportunities associated with this rapidly growing industry. Throughout the duration of the course, students will not only acquire the necessary skills to successfully pass the FAA Part 107 Exam but will also craft a comprehensive business plan tailored to their individual drone business aspirations. Practical experience is integrated, allowing students to embark on their first drone flight and develop essential technical skills for safe drone operation.

Course Objectives:

- Explore the Drone Industry Growth and Opportunities
- Understand the Capabilities of Drones
- Learn to Pass the FAA Part 107 Certification Exam [Unmanned Aircraft General- Small (UAG)]
- Understand Key Elements of Safe Flight
- Learn How to Start a Drone Business

622- HEALTH

Emphasis is placed on responsible decision making as it relates to topics of nutrition, fitness, substance use/abuse, tobacco use, relationships, and personal health. Topics will be covered using lecture, discussions, peer teaching, group activities, and guest speakers.

648 –INTRODUCTION TO MUSIC THEORY

Prerequisite: Students wishing to take Intro to Music Theory must be able to read music fluently 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.

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, and viewing filmed versions of plays. During years in which a high school musical is being produced, enrolled students will be required to participate on the production crew.

1181/1182 - MEDIA PUBLICATIONS

Choose 1181 for 1st semester or 1182 for 2nd semester

Prerequisite: Must have passed Photography course or be taking it concurrently or have previously completed this Media course with a passing grade.

This is a semester course that can be taken either 1st semester, 2nd semester, or both semesters.

All students in this class are required to work on various projects for school publications: Media website, Stall Stories, and Yearbook. Students will need to be highly motivated and capable of working independently. You will be required to attend at least one event after school to take photos to use in the yearbook. Students must have access to transportation to ensure the event is covered as it is a grade.

All students will be required to sell advertisements as part of a grade to help support the running costs of the yearbook.

- If enrolled in both semesters, you will only sell ads once
- If only enrolled in one semester, you will sell ads during that semester.

6251/6252 – SPORT SPECIFIC TRAINING

Choose 6251 for 1st semester or 6252 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).**

621 – TEEN LEADERSHIP

Prerequisite: Must be in 11th or 12th grade, pass the application and interview process, and have a 3.0 cumulative gpa.

Students taking TEEN LEADERSHIP are those students who are interested in honing their leadership and service skills. This course is offered in association with Teen Leadership Corps. The class is structured to help students learn how to lead in their life, school and community through a variety of service-based leadership activities. This class will direct various assemblies, school initiatives and outreach events as well as attend conferences and activities with other schools' programs. Accepted students will be required to commit to a behavior contract as part of their involvement.

989 – WORK RELEASE (JUNIORS and SENIORS ONLY)

Early Release is a program for juniors and seniors who are currently in the workforce and working for a verifiable employer (paystub required for verification). The school will provide the student with early release for no more than 2 periods at the end of the day if the following stipulations are completed and approved:

1. Complete the application and submit all required materials prior to the start of any semester where the student wishes to schedule early release.
2. Be in good standing in regard to graduation requirements (EOC scores, cumulative credits, etc.)
3. Enroll in 5 credit bearing classes.
4. Attend all required sessions with school counselors or school administration when scheduled.

Students will not be permitted to use work release as an excuse to miss any school related activities to which they are committed.

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

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

Failure to adhere to these guidelines, the Student Code of Conduct, attendance resulting in truancy or excessive absences, or failure to maintain verifiable employment will be cause for the removal of this privilege and the student being required to attend a full academic day at John Glenn High School.

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 5 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

700106 - ENVIRONMENTAL SCIENCE

This will be a year-long course

Prerequisites: Must be accepted to Muskingum University

This 4-credit, Muskingum University 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, human populations, energy, pollution, toxicology, and environmental health. Many labs include walking to outdoor locations. Course format includes PowerPoint lectures, labs, environmental science news article discussions, tests, a few PowerPoint presentations, and possible field trips. This course counts towards earning an Honors Diploma as well as a graduation seal in Science. Note: Most 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.

College Credit Hours: 4.0 High School Credits: 1.0

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 OHIO UNIVERSITY AT JGHS

Students who meet the qualifications for these classes will receive both high school and college credit. See page 5 for specific requirements.

801000 – INTRODUCTION TO SOCIOLOGY

This course should be offered Fall semester during 1st and 2nd periods.

Prerequisite: Must be accepted to Ohio University.

Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, socialization, social organization, groups, institutions.

College Credit Hours: 3.0 High School Credits: 1

801600 – INTRODUCTION TO CHILD DEVELOPMENT

This course should be offered Fall semester during 1st and 2nd periods.

Prerequisite: Must be accepted to Ohio University.

Fundamental patterns of children's physical, cognitive and social emotional development and behavior beginning prenatally and continuing through adolescence. Examines how these issues and themes of child development have affected and been affected by societal changes in a progressively more connected, diverse and globalized world.

College Credit Hours: 3.0 High School Credits: 1

801030 – FUNDAMENTALS of PUBLIC SPEAKING This course should be offered Spring semester during 1st and 2nd periods.

Prerequisite: Must be accepted to Ohio University.

The Fundamentals of Public Speaking course develops understanding of theories and skills related to successful communication in the presentational speaking context. Through the use of interpretive and rhetorical methods students understand meaning, context, culture, diversity, ethics, research, and language in the development and delivery of informative and persuasive speeches that are informed by and adapted to desired audiences.

College Credit Hours: 3.0

High School Credits: 1

8010SW – INTRODUCTION to SOCIAL WORK & SOCIAL WELFARE

This course should be offered Spring semester during 1st and 2nd periods.

Prerequisite: Must be accepted to Ohio University.

Provides an overview of a range of social problems and society's response to them through the social service delivery system. The problems and services described include: child abuse and neglect, drug and alcohol abuse, poverty, aging, mental health and illness, and corrections. Within this context, various career options and professional roles will be described, including that of social work.

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 5 for specific requirements.

901500 - COMPOSITION I

This will be a year-long course

Prerequisite: Must 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. Multiple APA style research essays will be 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 2024-2025 school year.

<u>Agriculture Production and Business Classes</u>	
BBQ Science	30.00
<u>Arts</u>	
Visual Creation	30.00
Drawing 1	22.00
Drawing 2	27.00
Advanced Art	35.00
AP Art & Design	35.00
Photography	25.00
Advanced Photography	30.00
<u>Business</u>	
Accounting I	20.00
<u>Family and Consumer Science</u>	
Food Science	25.00
Global Foods	25.00
<u>Language Arts</u>	
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
<u>Mathematics</u>	
Accelerated Pre-Calculus	TI84 PLUS Graphing Calculator approximately 120.00
<u>Physical Education</u>	
Advanced Conditioning	5.00
Physical Education	5.00
<u>Science</u>	
Anatomy & Physiology	20.00
Biology	15.00
Honors Biology	20.00
Chemistry I	20.00
AP Chemistry	30.00
Ecology	20.00
Forensic Science	30.00
Physical Science	20.00
Physics	20.00
Zoology	20.00
<u>Technology</u>	
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
Vex Robotics	25.00
<u>Other</u>	
Athletic Training I	35.00
Athletic Training II	10.00
Commercial Driver's License Training	TBD
Drone Technologies	TBD
Sport Specific Training	5.00