
AVON LAKE HIGH SCHOOL

Program of Studies



MICHAEL J. MAY PRINCIPAL

2023-2024

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I. INTRODUCTION - PROGRAM OF STUDIES

Dear Students and Parents:

We at Avon Lake High School are committed to meeting the academic needs of all students while fostering their personal growth. To help us in that endeavor, it is extremely important to understand the purpose of our Program of Studies, which is to provide the necessary information for making sound choices in course selection. Our master schedule of classes and teacher assignments are student driven. Courses are offered and teaching staff are assigned to those courses based upon the number of students who requested to take them.

This Program of Studies booklet describes, in detail, the many academic opportunities that Avon Lake High School affords you. Of course, opportunities provide choices, and choices require decisions. Very soon you will be asked to make decisions about which courses you are going to take next year. Not only will these decisions affect you next school year, but they may also influence your future, so you must give careful thought to them.

If we fail to help students map out a course of study, we are not doing our part. If students don't choose courses carefully, they are not doing their part. Thinking that a course can be changed because a student doesn't like it causes serious problems, including unbalanced class loads and teacher assignments.

Please understand before registration that schedule changes will only be approved by administration *if* it is determined that a student was misplaced, a technical error was made during data entry, a master schedule change occurred (class closed or changed), a failed course must be rescheduled, or a course taken in summer school is replaced.

We have committed ourselves to excellence, and that should be your goal as well. The best safeguard to effective scheduling is to ask questions before registration. Your teachers, guidance counselors, and administrators are here to help you reach your potential. Wise selection of your courses next year is the best start. If any of us may be of help to you in the selection process, please do not hesitate to ask.

Sincerely,



Mr. Michael J. May
Principal



Mr. Michael Kaminski
Chairperson, Guidance Department

PROGRAM SELECTION AND PLANNING GUIDE

The Program of Studies contains the essential information needed for students to plan their educational program at the secondary level. The requirements should be considered carefully by both students and parents prior to making course selections. **Courses without adequate enrollment will not be offered during the upcoming school year.**

General Requirements:

Avon Lake High School has been certified by the Ohio Department of Education. The Avon Lake Board of Education requires all students to obtain a minimum of academic credits.

II. REQUIREMENTS FOR GRADUATION

Class of 2024, 2025, 2026, 2027

Language Arts	4	Credits	English 9/English 9 Honors (1) English 10/English 10 Honors (1)
Mathematics	4	Credits	4 credits of Math, must include 1 unit of Algebra II or the equivalent of Algebra II
Science	3	Credits	3 credits of Science, must include 1 unit of Physical Science, 1 unit of Life Science, and 1 unit of Advanced Science
Social Studies	3	Credits	American History (1) AP® U.S. History (1) American Government* (1) AP® U.S. Government and Politics* (1) World History (1) Honors World History (1) *contains Financial Literacy requirement for ODE
Financial Literacy	0.50	Credit	*May count toward a 1/2 credit of Math. In addition to the Math requirement listed above.
Health 10	0.50	Credit	
Physical Education	0.50	Credit	2 courses (0.25 credits each) over 4 years
Business/Technology OR World Language OR Fine Arts	1	Credit	
Electives	4.5	Credits	
TOTAL CREDITS	21	CREDITS	Must pass all State mandated tests required for graduation and earn required graduation seals. See ODE flyer on the next page.

Ohio's High School Graduation Requirements

Classes of 2023 and Beyond

It's Your Future. Get Ready.

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

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

First, cover the basics

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

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

Other Requirements

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

Second, show competency

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

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

Demonstrate Two Career-Focused Activities*:

Foundational

Proficient scores on WebXams
A 12-point industry credential
A pre-apprenticeship or acceptance into an approved apprenticeship program

Supporting

Work-based learning
Earn the required score on WorkKeys Earn

Enlist in the Military

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

Complete College Coursework

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

the OhioMeansJobs Readiness Seal

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

Third, show readiness

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

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

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

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





Avon Lake City Schools “Locally Defined” Graduation Seals

The following are the board adopted requirements for Avon Lake High School students in the classes of 2023 and beyond to earn one of the locally defined graduation seals:

Fine and Performing Arts Seal:

In order for a student to earn a Fine and Performing Arts Seal in the Avon Lake City Schools, one of the following criteria must be met:

- A student must earn a “B” or higher in at least two semesters of a fine arts course.
- A student must earn a “B” or higher in at least two semesters of one performing arts course and participate in at least one school performance.

Qualifying courses will be identified in the Avon Lake High School *Program of Studies* or through the Lorain County Joint Vocational School.

Community Service Seal:

In order for a student to earn a Community Service Seal in the Avon Lake City Schools, the following criteria must be met:

- A student must complete 30 or more hours of verified community service. Service hours will be approved by a designee of the administration, and pre-approval is recommended.

Student Engagement Seal:

In order for a student to earn a Student Engagement Seal in the Avon Lake City Schools, one of the following criteria must be met:

- A student must complete at least one full season of a school-sponsored varsity, junior varsity or freshman sport. Verification will be provided by the athletic department.
- A student must participate in at least one full year of activities and/or meetings of board approved clubs or organizations. Verification will be required by the advisor of the club or organization.

Any seals earned through the Lorain County Joint Vocational School, will be recognized as one of the required Local Seals.

High School Academic Diploma with Honors <i>Students need to fulfill only 7 of the following 8 criteria</i>	
Subject	Criteria
English	4 units
Mathematics	4 units, including Algebra I, Geometry, Algebra II or equivalent and another higher level course or a four-year sequence of courses that contain equivalent or higher content
Science	4 units, including two units of advanced science
Social Studies	4 units
World Language	3 units of one world language or 2 units in of two world languages
Fine Arts	1 unit
Career-Technical	Not counted toward requirements and may not be used to meet requirements
Electives	Not counted toward requirements
Grade Point Average	3.5 on a 4.0 scale
ACT/SAT Score [excluding scores from the writing sections]*	27 ACT / 1280 SAT
Additional Assessment	None

Please see your counselor for additional Diploma with Honors options.

*Writing sections of either standardized test should not be included in the calculation of this score. Diploma with Honors requirements pre-suppose completion of all high school diploma requirements in Ohio Revised Code including the following:

- ½ unit physical education
- ½ unit health
- ½ unit in American history
- ½ unit in government

BOARD OF REGENTS—COLLEGE PREPARATION PROGRAM REQUIREMENTS

The Ohio Board of Regents (controlling Board for Higher Education) and the State Board of Education appointed a 15 member advisory committee on Articulation between Secondary Education and Ohio colleges. In April 1981 this commission made the following recommendations concerning preparatory courses for Ohio high school students:

1. The **minimum** College Preparatory curriculum as recommended by the Ohio Board of Regents and the State Board of Education is as follows.
 - a) 4 credits of English (emphasis on composition and literature)
 - b) A minimum of 4 credits of mathematics – including Algebra I, Geometry, Algebra II
 - c) 3 credits of laboratory science (those that meet 7 periods per week)
 - d) 2 credits of world language (must be in the same language)
 - e) 3 credits of social studies
 - f) 1 credit of the arts (band, choir, art, drama)
2. Private and state assisted four year colleges and universities (in Ohio) may require that students who wish to be admitted to their institutions on an unconditional basis must have successfully completed all of the above requirements of a college preparatory curriculum.

The Avon Lake High School staff strongly supports the above recommendations for students who plan to attend college. Presently, several Ohio colleges and universities have adopted the commission's requirements. Students wishing to attend 4-year colleges or universities who **have not** completed the recommended requirements may be admitted on condition. Some of the conditions may be a high grade point average in high school, above average scores on either the ACT or SAT, or a special talent.

III. CURRICULAR CHOICES:

HONORS/ADVANCEMENT PLACEMENT

Honors/AP[®] Classes are characterized by the following:

Workload—(both in-class and homework) exceeds that assigned in other courses at the same level/same department.

Independent work—the amount expected of the student is greater than other courses.

Complexity and difficulty of material—material is more difficult and complex than general education curricula.

Critical thinking skills---Honors/AP[®] classes require a greater amount of activity at the higher levels of critical thinking, including synthesis and evaluation.

The student selection process for Honors or AP[®] courses is designed to make the program available to those who will profit from the challenging work offered. Three (3) factors are considered before a student is admitted to Honors or AP[®] classes.

1. level of academic achievement
2. evaluation of previous teacher
3. the expressed desire of student

The following courses are offered as Honors/AP[®] courses:

Honors Courses

Abnormal Psychology Honors
Algebra II Honors
Biology Honors
Chemistry Honors
Chamber Orchestra Honors
Chorale Honors
Computer Programming Honors
Concert Band Honors
English 9 Honors
English 10 Honors
French II Honors
French III Honors
French IV Honors
Geometry Honors
Intro to Engineering Honors
Pre-Calculus Honors
Spanish II Honors
Spanish III Honors
Spanish IV Honors
String Orchestra Honors
Symphonic Band Honors
World History Honors

AP[®] Courses

AP[®] Biology
AP[®] Calculus AB
AP[®] Calculus BC
AP[®] Chemistry
AP[®] Computer Science A
AP[®] Computer Science Principles
AP[®] English Literature/Composition
AP[®] Macroeconomics
AP[®] Microeconomics
AP[®] Music Theory
AP[®] Physics I and II
AP[®] Physics C
AP[®] Psychology
AP[®] Research
AP[®] Seminar
AP[®] Spanish
AP[®] Statistics
AP[®] Studio Art 2D
AP[®] Studio Art 3D
AP[®] U.S. History

STUDENTS ARE REQUIRED TO TAKE AP[®] EXAMS IN MAY. THE COST OF REGISTRATION FOR THE EXAMS IS THE STUDENT'S RESPONSIBILITY.

AP® CAPSTONE

AP® CAPSTONE PROGRAM

AP® Capstone Diploma is an innovative program from the College Board which equips students with the independent research, collaborative teamwork, and communication skills that are increasingly valued by colleges and universities. AP® Capstone is built on the foundation of two courses--AP® Seminar and AP® Research--which are designed to complement and enhance the in-depth study experienced in other AP® courses.

Students who earn scores of 3 or higher in AP® Seminar and AP® Research and on four additional AP® Exams of their choosing will receive the AP® Capstone Diploma. Students who earn scores of 3 or higher on AP® Seminar and AP® Research but not on four additional exams will receive the AP® Seminar/Research Certificate. AP® Seminar may also be taken as a stand-alone course.

AP® CAPSTONE COURSE DESCRIPTIONS

AP® Seminar (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$143.00 Exam

Prerequisites: Juniors – Students need a recommendation from current Honors or AP English teacher.

AP® Seminar is the first year of the two year AP® Capstone program. Successful completion of the AP® Capstone program (3 or higher on each AP® Exam) plus successful completion of four or more other AP® Courses will earn a student an AP® Diploma.

AP® Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas. Students need diligence in meeting deadlines, intrinsic motivation, maturity to handle potentially controversial topics, and a strong background in English/Language Arts. An open mind and willingness to listen to and work with others with a wide range of interests is necessary.

Unlike other AP® courses where the AP® score is determined by an exam administered in May, AP® Seminar assessments begin in late November. The AP® Seminar assessment is made up of three main parts:

- Performance Task 1 (individual research report, group project, group presentation)
- Performance Task 2 (individual written argument, individual presentation)
- End of Course Exam (2 part exam administered during AP® exam weeks in May)

AP® Research (11, 12)

2 semesters .50 credit each semester

Fee: \$143.00 Exam

Prerequisites: Successful completion of AP® Seminar. Teacher or counselor recommendation.

AP® Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct an investigation to address a research question. Students will further develop the skills acquired in the AP® Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing and synthesizing information. Students will reflect on their skill development, document their processes, and curate artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

CORRESPONDENCE SCHOOL

Avon Lake students may choose to *make-up credit deficiencies* through correspondence school. INDIANA UNIVERSITY CORRESPONDENCE SCHOOL courses will be accepted for Avon Lake High School credit. Applications, descriptions of courses offered, and fees charged are available in the Guidance Office. While this is a convenient option to make-up deficiencies, only the student who has self-discipline and commitment should choose this option. All correspondence classes must be approved by a guidance counselor and principal. **CORRESPONDENCE SCHOOL GRADES ARE INCLUDED IN THE GRADE POINT AVERAGE AND MAY ONLY BE TAKEN WHEN THE STUDENT'S SCHEDULE DOES NOT PROVIDE ROOM FOR THE COURSE.**

SHOREMEN ACADEMY

The Avon Lake City School district recognizes that student needs are not "one size fits all." The mission of the Shoremen Academy is to provide selected students the ability to access the curriculum in a non-traditional manner while maintaining the same level of professionalism and support services provided through the general curriculum. The Shoremen Academy is designed to be a vehicle to credit recovery and an Avon Lake High School diploma. **Placement in the Shoremen Academy is initiated by the high school administration and the Avon Lake City Schools Board of Education.**

PROJECT LEAD THE WAY ENGINEERING PROGRAM

Avon Lake students are eligible to participate in an Engineering Pathways program titled "Project Lead the Way." This three year program, offered in conjunction with Lorain County Community College and the JVS, introduces students to the scope, rigor, and discipline of engineering prior to college. The introductory course in the three year sequence, Introduction to Engineering, is taught in a state of the art computer lab at Avon Lake High School. Students choosing to continue in the PLTW curriculum will attend Lorain County Community College for a half day during junior and senior years. Students will earn dual high school and college credit. Please visit www.pltwohio.org for more information.

LORAIN COUNTY JOINT VOCATIONAL SCHOOL

Avon Lake students may choose to complete their junior and senior years in high school studying one of several two-year vocational programs at Lorain County Joint Vocational School located in Oberlin, Ohio. Students will receive an Avon Lake High School diploma upon successful completion of the two years at LCJVS. Application to the vocational school begins in the 10th grade. Students should check with their counselor early in the 10th grade about the various course offerings at the JVS, application procedures, and the credit needed.

To avoid credit deficiency, the student should have completed the following required courses in the 9th and 10th grades: (MINIMUM)

- 2 credits English
- 2 credits Science
- 2 credits Math
- 2 credits Social Studies (World History/American History)
- .50 credit Health 10
- .50 credit Physical Education
- 3 credits of Electives
- 12 Credits

If a student has scheduled with junior status (11 credits) but failed to meet the above graduation requirements, he or she may enroll in summer school, night school, or correspondence school BEFORE GRADUATION.

Students can also apply to attend the 9th grade Career Readiness or 10th grade Career Explorations programs at JVS. Please see your counselor if you would like more information on these opportunities.

NIGHT SCHOOL

A few local school districts may offer some selected courses (Social Studies/English) in night school. Avon Lake students may choose to attend night school to make up required courses that they did not pass. All night school classes must have **PRIOR** approval from a guidance counselor and principal. **NIGHT SCHOOL GRADES ARE INCLUDED IN THE GRADE POINT AVERAGE.**

SUMMER SCHOOL

Avon Lake students may choose to attend summer school. If a student chooses to attend summer school, he/she must meet the following conditions:

1. Course to be taken must first be approved by a guidance counselor or the principal.
2. Students must provide their own transportation.
3. Enrichment courses must receive the approval of the principal.

The principal and guidance counselor will approve summer school courses for the following reasons:

1. To schedule an **ELECTIVE COURSE** that, due to scheduling conflicts, the student could not schedule at Avon Lake High School.
2. To **MAKE-UP FAILURES** in **REQUIRED** or **ELECTIVE COURSES**.

GRADES IN APPROVED SUMMER SCHOOL COURSES ARE INCLUDED IN THE AVON LAKE HIGH SCHOOL GRADE POINT AVERAGE.

COLLEGE CREDIT PLUS (CC+)

A student enrolled at Avon Lake High School is eligible to participate in the College Credit Plus Program. This is an opportunity for students to take classes at eligible post-secondary institutions. The institutions include community colleges, post-secondary vocational technical institutions, state universities, and select private colleges and universities. Some CC+ courses are offered by Lorain County Community College on our Avon Lake High School campus; these are listed below. All eligibility requirements for College Credit Plus apply to on-site courses as well. The purpose of this program is to promote rigorous academic pursuits and to provide a wider variety of options to high school students. Students interested in this program must meet Avon Lake High School graduation requirements plus any enrollment requirements the post-secondary institutions may have. The legislation for this program requires that parents and students receive counseling regarding the program, and that a letter of intent for the 2023-2024 school year be submitted to the Guidance Office no later than April 1, 2023. **The application must be completed no later than June 1, 2023.**

COLLEGE CREDIT PLUS MATURE CONTENT PERMISSION SLIP AVAILABLE
Ohio colleges, universities and secondary schools must provide information about mature subject matter in college courses to students applying to participate in College Credit Plus and their parents or guardians. The required permission slip and supporting documents for this new requirement are now available.

More information can be found at this website: <https://www.ohiohighered.org/ccp/resources>

COLLEGE CREDIT PLUS ON-SITE COURSES:

ARTS 151	BIOG 121	EET 1150	PPSC 161
ARTS 152	BIOG 122	ENGL 161	
ARTS 275	EET 1100	ENGL 162	

College Credit Plus (CC+) Pathways

CC+ Course options by year to attain 15-30 college credits

Please note students' course selection/order may vary from the example below.

GRADE	COURSE	COURSE	CREDIT
9TH GRADE	ARTS 151		3
		ARTS 152	3
10TH GRADE	HLED 150/HLED 151*		2
		ARTS 275	3
	CGSD 120		3
11TH GRADE	ENGL 161		3
		ENGL 162	3
	PSSC 161		3
12TH GRADE	BIOG 121		4
		BIOG 122	4
	ECNM 113		3
	EET 1100**		2
		EET 1150**	2
TOTAL HOURS AVAILABLE:			38

**These courses are taught online via LCCC*

***Avon Lake High School students also have the opportunity to take the following 2 courses through Tri-C at any time during their high school years (grades 9-12) as long as they meet requirements. Course descriptions are located under Industrial Technologies.*

Introduction to Robotics (EET-1100)-2 hours

Basic Robotics with Math (EET-1150) -2 hours

All other courses listed above are through Lorain County Community College (LCCC)

COLLEGE TECH PREP PROGRAM

College Tech Prep (CTP) programs are a unique educational option for the last two years of high school. CTP is designed for students who plan to go to college, but who want to actually *experience* a particular career before investing in college.

The program combines traditional, college-preparatory academics with intense, lab-based instruction in the career of choice. Because of the need for specialized lab facilities, ½ of the day is normally spent at the home school for academics. The other ½ day is spent at the Lorain County JVS.

Learning in CTP programs is hands-on and challenging, with the opportunity to earn articulated college credit for work completed at the high school level. Students best suited for College Tech Prep are those who are active, experiential learners; who like building and designing; and who learn best by applying their knowledge to real-life situations.

Enrollment in College Tech Prep programs is competitive, and generally requires the following:

- A solid GPA (approximately 2.5 or above)
- Completion of at least Algebra I with a grade of “C” or better
- Passage of all OST tests
- Junior standing at the end of 10th grade
- Completion of Biology with a “B” or better (Health Science Technology only)

*Allied Health Sciences

*Digital Media Arts

*Network Communications Technology

*Project Lead the Way (PLTW)

TEACHER EDUCATION EXPLORATION

Teacher Education Exploration (TEE) is a program for seniors who are interested in becoming teachers. Students will spend three periods each day in the program. Activities will include classwork, written internet assignments, shadowing a teacher, classroom teaching, keeping a scrapbook, and meeting with other TEE students in Lorain County. Students will earn 3 high school credits during the year, and will also be able to earn up to 3 hours of college credit.

NCAA APPROVED COURSES

(As of November 2022)

ENGLISH

AP® Research
American Literature
AP® English Language & Composition
AP® English Literature & Composition
AP® Seminar
British Literature

College Composition
Creative Writing
English 9
English 9 Honors
English 10
English 10 Honors

Journalism
LCCC CC+ ENGL 161
LCCC CC+ ENGL 162
Public Speaking
Studies in the Novel

SOCIAL STUDIES

Abnormal Psychology Honors
American Government
American History
AP® U.S. History
AP® U.S. Government and Politics
AP® Microeconomics
AP® Macroeconomics

AP® Psychology
Contemporary Social Issues
Economics
Psychology
Sociology

World Affairs
World Geography
World History
World History Honors

MATHEMATICS

Algebra I
Algebra II
Algebra II Honors
AP® Calculus AB
AP® Calculus BC
AP® Statistics

College Algebra and Trigonometry
Functions, Statistics and Trigonometry
Geometry
Geometry Honors
Integrated Math I
Integrated Math II

Integrated Math III
Math Analysis
Pre-Calculus
Pre-Calculus Honors

SCIENCE

AP® Biology
AP® Chemistry
AP® Environmental Science
AP® Physics 1 & 2
AP® Physics C Astronomy
Biology
Biology Honors

Biotechnology DNA lab
Chemistry
Chemistry Honors
Chemistry in the Community
Conceptual Physics
Environmental Studies
Integrated Science I
Integrated Science II

Integrated Science III
LCCC CC+ BIOG 121
LCCC CC+ BIOG 122
LCCC CC+ PSSC 161
Life Science
Physical Science
Physics

World LANGUAGE

AP® French
AP® Spanish
French I
French II
French II Honors
French III
French III Honors

French IV
French IV Honors
Mandarin Chinese I
Mandarin Chinese II Honors
Mandarin Chinese III Honors
Mandarin Chinese IV Honors
Mandarin Chinese V Honors

Spanish I
Spanish II
Spanish II Honors
Spanish III
Spanish III Honors
Spanish IV
Spanish IV Honors

For more information, please visit http://web1.ncaa.org/ECWR2/NCAA_EMS/NCAA.jsp

IV. PROCEDURES

PROMOTION AND CLASS ASSIGNMENTS

10th GRADE STUDENT 5.75 credits

11th GRADE STUDENT 11.00 credits

12th GRADE STUDENT 16.50 credits

FOR GRADUATION - 21.00 credits

There may be some instances where students will not achieve enough credits to be advanced to the next higher grade level until the end of the first semester of the following school year. These cases may occur during the junior and senior years where school events such as prom and commencement are related to class status.

SCHEDULE CHANGES

It is important that the decisions regarding courses be made in the spring of each year. Classes are scheduled and teachers hired on the basis of these enrollments. Therefore, careful advanced planning and student commitment to the courses selected are essential so that the student is registered for the most appropriate courses according to his/her academic and career interests as well as his/her ability.

9th and 10th grade students must enroll in a minimum of 6 classes per semester. 11th and 12th grade students must enroll in a minimum of 5 classes per semester. Classroom teachers will suggest minimum requirements, competencies and prerequisite courses. The teacher will recommend the course she/he feels is appropriate for the student. If the parents disagree, they may *appeal* the teacher's recommendation.

To appeal a teacher recommendation:

1. The student may secure an appeal form in the guidance office.
2. The student is responsible for obtaining the necessary teacher and parent signatures on the form.
3. The student must return the appeal form to his/her counselor with all signatures by the prescribed deadline before the appeal will be reviewed by the Administration and Guidance Counselors.

After students have selected courses, schedule changes will only be made based on the following:

- a) ACADEMIC MISPLACEMENT (an error was made in placement due to incorrect evaluation of ability scores, past grades, etc.)
- b) TECHNICAL ERROR IN THE SCHEDULE PROCESS (incorrect course code keyed into computer)
- c) CHANGE IN THE MASTER SCHEDULE (class is closed or changed)
- d) RESCHEDULING OF A FAILED COURSE
- e) RESCHEDULING NEEDED AFTER SUMMER SCHOOL COURSES ARE COMPLETED

The "Class Drop Deadline" is always 10 days after the first day of class. After the 9th week of a course, **A STUDENT MAY DROP A CLASS ONLY IF HE/SHE IS FAILING THE COURSE. A WITHDRAW FAILING (WF) GRADE WILL APPEAR ON THE TRANSCRIPT AND THE GRADE WILL BE INCLUDED IN THE GPA.** Course load for 9th and 10th grade students must not drop below six (6) classes per semester. Course load for 11th and 12th grade students must not drop below five (5) classes per semester.

ACADEMIC DISTINCTION

Avon Lake High School utilizes the Latin Honor System as a way to recognize student achievement. Below is a breakdown of each specific distinction and GPA requirement.

Summa Cum Laude (<i>with highest distinction</i>)	Cumulative GPA of 4.5+
Magna Cum Laude (<i>with great distinction</i>)	Cumulative GPA of 4.0+
Cum Laude (<i>with distinction</i>)	Cumulative GPA of 3.5+

DETERMINING SEMESTER GRADES

All official credit shall be granted on a semester basis. The semester Quality Point average will be the sum of 40% of each nine (9) week Quality Point value (see chart below) and 20% of the semester exam Quality Point value. The semester letter grade assigned will be the grade that is nearest to the semester Quality Point average as shown in the chart below.

Example:

1 st Quarter Grade	A	4.00
2 nd Quarter Grade	A	4.00
Exam Grade	B	3.00

Semester Grade Computation

$.4(4) + .4(4) + .2(3) = 3.80 = A^-$ (Closest to 3.67)

Please note that the percentages earned in each nine (9) week grading period and on the exam are not used to calculate the semester grade. In order to receive an official passing grade at least two (2) of the three (3) recorded grades must be passing grades.

HIGH SCHOOL GRADING PROCEDURES

Grading Scale

Teacher Scale

93-100=A

90-92=A-

87-89=B+

83-86=B

80-82=B-

77-79=C+

73-76=C

70-72=C-

67-69=D+

63-66=D

60-62=D-

Below 60 = F

Grade	Class Average	Regular	Honors/AP	CC+ Off/On Campus
A	93-100	4.00	5.00	5.00
A-	90-92	3.67	4.67	
B+	87-89	3.33	4.33	
B	83-86	3.00	4.00	4.00
B-	80-82	2.67	3.67	
C+	77-79	2.33	3.33	
C	73-76	2.00	3.00	3.00
C-	70-72	1.67	2.67	
D+	67-69	1.33	1.33	
D	63-66	1.00	1.00	1.00
D-	60-62	0.67	0.67	
F	Below 60	0.00	0.00	0.00

*THE GRADE SCALE FOR ALL CC+ CLASSES WILL BE DETERMINED BY THE ASSOCIATED COLLEGE.

INTERIM REPORTS

Interims are no longer sent hard copy. You can log-on to PowerSchool at <https://psal.nccohio.org/public/home.html> to view your student's progress at any time. If a hard copy of the report card is needed please contact the guidance department.

TRANSFER STUDENTS AND WEIGHTED GRADES

1. Transfer Students - the grade level placement and classification of a new student depends upon the evaluation of his/her academic record from his/her former school. For grade level assignment, see "Promotion and Class Assignments" on page 15.
2. Transfer Student Grade Weighting for GPA and Class Rank
 - a) Students who transfer from schools without weighted courses but who received credit in courses that Avon Lake weights will receive weighted credit in those courses according to the scale used by Avon Lake High School.
 - b) Students who transfer into Avon Lake with weighted credit in courses not weighted by Avon Lake will not receive the weighted credit in compiling the GPA and rank.
 - c) Those students who have taken Honors or AP[®] courses at another school will have the notation made on their high school record and on their transcript.

HIGH HONOR ROLL - HONOR ROLL - MERIT ROLL

(Compiled after each 9-week grading period)

High Honor Roll	Honor Roll	Merit Roll
4.0 and above GPA	3.6-3.99 GPA	3.0-3.59 GPA

A student with a "D" or "F" in any subject will not qualify for this Honor Status. An "I" grade must be made up before this honor status is given.

AUDITING COURSES

Only students in grades 10, 11, and 12 may audit a course. Although courses may be audited in special circumstances, only those courses that have been taken but not failed may be audited. See your counselor about the process. No credit or grade will be issued for an audited course. Semester Course Audits are the responsibility of the student.

CANCELING AN ELECTIVE COURSE

Elective courses offered may be canceled whenever the number of students enrolled does not meet the minimum requirements. All elective courses will be filled on senior, junior, sophomore, and freshman priority basis in the event the number of sections must be limited.

ENRICHMENT CLASSES

1. Identified "Enrichment Credit Courses" are as follows:
 - a. Encore
 - b. Web Design
 - c. World Drumming
 - d. Robotics
 - e. Speed, Weights, Agility, Quickness
2. Students may take an "identified course" up to four times during their education career at Avon Lake High School.
3. Content of "Enrichment Credit Courses" shall be different each time for students who enroll for a second, third or fourth time. All "Enrichment Credit Courses" shall normally be offered simultaneously with the first level course.
4. Students enrolling in a first level course shall have a priority over "enrichment credit."
5. Identified courses shall provide and promote individualized instructional opportunities by their structural nature.
6. "Enrichment Credit Course" curriculums shall be reviewed on an annual basis by the department chairpersons.

ATHLETIC/CHEERLEADER ELIGIBILITY

The Avon Lake Board of Education recognizes the positive values associated with and gained from participation in interscholastic extracurricular activities in Grades 7–12. Furthermore, the Board of Education understands the incentives that participation in interscholastic athletics and extracurricular activities provide to students to achieve success and maintain a satisfactory level of performance in the classroom.

A 1.5 (C-) minimum grade point expectation has been established as part of this policy in order for a student to participate in a school sport. In order to be eligible to participate in athletics, a student in Grades 7–12 must be currently enrolled and have met the minimum grade point average (1.5) for the immediately preceding grading period. A failing grade may not preclude a student from participation.

Students must continue to maintain all of the following identified requirements set forth by the Ohio High School Athletic Association: a student must currently be enrolled, and he/she must have received passing grades that earn a minimum of 5.0 credits or the equivalent in the immediately preceding grading period.

JUNIOR/SENIOR PASS

Students at Avon Lake High School who have study halls at the beginning or end of the day are eligible to register for Junior/Senior Pass privilege. Junior/Senior pass will only be offered first, second, eleventh or twelfth period. All Junior/Senior Passes are subject to the criteria listed in the student handbook, which include grade requirements, parental permission, and behavior standards. Details about Junior/Senior Pass will be included in the summer newsletter.

POSITIVE REFERRALS

Each staff member has access to Positive Referral slips at the beginning of each grading period. Staff members use these to recognize a student's special effort, give special thanks, or for anything performed by the student that warrants recognition. Positive Referrals are sent to the grade level principal who in turn calls the student down for congratulations and a special treat. A letter of congratulations is sent home to parents and a copy of the Positive Referral is given to the student and placed in their file.

COMMUNITY SERVICE

Our Mission:

- To foster a spirit of civic duty and motivation within the students of Avon Lake High School to help others within this community.
- To assist those students seeking out opportunities to make a difference by offering them the chance to do so.
- To recognize students for the work they do that improves our community.

Civic Duty and Responsibility:

- ALHS firmly believes in the benefits of service education and will provide its students with the chance to become involved in making their community a better place to live.
- Civic responsibility should also reflect the desire of an individual to want to make their community better; therefore, this will remain voluntary.



4 YEAR COURSE PLAN TEMPLATE

FRESHMAN YEAR	SOPHOMORE YEAR
ENGLISH:	ENGLISH:
MATH:	MATH:
SCIENCE:	SCIENCE:
SOCIAL STUDIES:	SOCIAL STUDIES:
WORLD LANGUAGE:	WORLD LANGUAGE:
PHYSICALED:	PHYSICALED:
FINANCIAL LITERACY:	FINANCIAL LITERACY:
ELECTIVE:	ELECTIVE:
ELECTIVE:	ELECTIVE:

JUNIOR YEAR	SENIOR YEAR
ENGLISH:	ENGLISH:
MATH:	MATH:
SCIENCE:	SCIENCE:
SOCIAL STUDIES:	SOCIAL STUDIES:
WORLD LANGUAGE:	WORLD LANGUAGE:
PHYSICALED:	PHYSICALED:
ELECTIVE:	ELECTIVE:
ELECTIVE:	ELECTIVE:
ELECTIVE:	ELECTIVE:

V. PROGRAM OF STUDIES COURSE DESCRIPTIONS

ARTS

ALL OFFERINGS IN THIS DEPARTMENT QUALIFY TOWARD THE COURSE REQUIREMENTS FOR THE ODE FINE AND PERFORMING ARTS GRADUATION SEAL.

Advanced Ceramics (9, 10, 11, 12)

1 semester .50 credit

Fee: \$50.00

Students will explore and create both pottery and sculpture pieces using clay as the primary medium. Students will extend their investigation of both hand building and throwing (potter's wheel) techniques. Emphasis will be placed on the elements of art and principles of design as they relate to three-dimensional works and extended focus will be given to mastery on the potter's wheel. This class meets one period daily for ½ unit of credit.

Advanced Photography (10, 11, 12)

1 semester .50 credit

Fee: \$120.00

Prerequisite: Admission by portfolio or completion of one semester of high school beginning photography with a "C" or better

This course is designed for the advanced student using photographic images as a vehicle for artistic expression and visual literacy. Photographic techniques will be studied in-depth, requiring a higher level of skill with the manual camera, darkroom techniques and the enlarger. The advanced student will be engaged in ongoing research and classroom discussions relating to current themes in photography. The advanced student will become more involved with computer-generated digital imagery as an extension of film-based photography. ***Students provide their own 35mm manual camera.** Please see art faculty member for a list of supplies. This class meets one period daily for ½ unit of credit. ***This course may not be repeated.***

AP® Studio Art 2D (11, 12)

2 semesters .50 credit

Fee: \$100.00 plus AP® Exam \$97.00

This one-year course is designed for students in grades 11 and 12 who are seriously interested in the studio experience of creating art. Through the College Board's Advanced Placement Program, AP® Studio Art: 2D and drawing gives students the opportunity to pursue college-level studies while still in high school. Emphasis will be placed on the investigation and production of a quantity of quality pieces as students create a personal portfolio utilizing a variety of media, techniques and approaches to drawing, painting, printmaking, and mixed media. This class does not include the creation of photographs or digital images, although students will digitally duplicate and document their portfolio for reference and college application purposes. Students are required to do some summer work and significant out of class work. This class meets one period daily for ½ unit of credit each semester.

AP® Studio Art 3D (11, 12)

2 semesters .50 credit

Fee: \$100.00 plus AP® Exam \$97.00

Prerequisites: Portfolio review or completion of Ceramics & Advanced Ceramics with a "C" or better.

This one-year course is designed for students in grades 11 and 12 who are seriously interested in the studio experience of creating art. Through the College Board's Advanced Placement Program, AP® Studio Art: 3D gives students the opportunity to pursue college-level studies while still in high school. Emphasis will be placed on the investigation and production of a quantity of quality pieces as students create a personal portfolio utilizing a variety of media, techniques and approaches to sculpting. This class does not include the creation of photographs or digital images, although students will digitally duplicate and document their portfolio for reference and college application purposes. Students are required to complete some summer work and significant out of class work assignments. This class meets one period daily for ½ unit of credit each semester.

ARTS

Art Therapy (11, 12)

1 semester .50 credit

Fee: \$50.00 art fee for supplies (journals, paint, clay and other supplies)

Students will learn how to create art as therapy for themselves and as a tool to work with special populations. This is a fully integrated class for students interested in teaching, healthcare related fields or to broaden their experiences in art and gain sensitivity to others. This class meets one period daily for ½ unit of credit.

Ceramics (9, 10, 11, 12)

1 semester .50 credit

Fee: \$50.00

Students will explore and create both pottery and sculpture using clay (ceramics) as the primary medium. Emphasis will be placed on the elements of art and principles of design as they relate to three-dimensional works. Students will also be introduced to the potter's wheel. This class meets one period daily for ½ unit of credit.

Digital Design and Illustration (9, 10, 11, 12)

1 semester .50 credit each semester

Fee: \$60.00

This is an introduction to digital drawing, an extension of traditional drawing, with emphasis on design. Students will create unique and expressive artworks on the iMac. The class will benefit those who want to pursue a career in art, design, or post-secondary educational art experience. Through digital artwork projects, students will bridge existing drawing/painting techniques with design basics on the computer. Through guided art projects, students will learn Adobe Photoshop and Illustrator, the 'industry standard' in the visual arts. This class would support students who already have an interest in design, drawing, photography, and typography. This class meets one period daily for ½ unit of credit each semester. ***This course may not be repeated.***

Digital Photo and Photoshop Techniques (10, 11, 12)

1 semester .50 credit

Fee: \$60.00

Prerequisite: Completion of one semester of high school beginning photography with a "C" or better

Digital Imaging is an introduction to creating and working with digital photographic illustration and the digital photographic image. Students will learn various digital processes, software and technology. Students will learn digital art production techniques such as: digital image capture, output and competent use of the imaging industry's standard program Adobe Photoshop and Illustrator. Students will create and manipulate black and white and color photographs through standard and experimental processes including photographic illustration using Adobe Illustrator. Students will be exposed to the history of Digital Art and contemporary concepts, technology issues and current practicing artists in conjunction with their own digital photography. Students will engage in the critique of their own work and those of others through written and oral discussions as a class and as individuals. ***Students must provide their own digital camera.** This class meets one period daily for ½ unit of credit. ***This course may not be repeated.***

Art and Design Explorations (9, 10, 11, 12)

1 semester .50 credit

Fee: \$50.00

This one semester studio course will explore fundamentals of visual art, the 'creative process' as an act of art-making, and develop problem-solving skills. Students will utilize *traditional and non-traditional* drawing, painting and other mark making mediums to create artworks. Students will learn to connect the creative process to other areas of study through self-expression. There are no prerequisites for this course. This class meets one period daily for ½ unit of credit. ***This course may be repeated with permission.***

ARTS

Photography (9, 10, 11, 12)

1 semester .50 credit

Fee: \$120.00

This course is designed as an introduction to the photograph as a vehicle of artistic expression. Students will explore the history of the Photographic Arts, the development of the camera and study the influences of master photographers and contemporary photographic artists. In the darkroom, students learn to chemically process black and white film and develop enlarged prints. The enlarger is used to create timed exposures with proper f-stop and contrast settings. Students will learn and experiment with printing techniques. ***Students need a 35mm manual SLR film camera – new or used.** This class meets one period daily for ½ unit of credit. *This course may not be repeated.*

Studio Art 2D (10, 11, 12)

1 or 2 semesters .50 credit each semester

Fee: \$50.00 per semester

Prerequisites: Portfolio review or completion of *Creative Processing* or *Digital Drawing* with a “C” or better

This studio art course may be taken for either 1 or 2 semesters independently or as preparation for AP® Studio Art 2D. Studio Art 2D is for dedicated art students interested in extending their painting, drawing and mark making techniques. Students develop a mature sense of aesthetic expression based on an in-depth study of artists and eras throughout history and the creative process. This class meets one period daily for ½ unit of credit each semester.

Studio Art 3D (10, 11, 12)

1 or 2 semesters .50 credit each semester

Fee: \$50.00 per semester

Prerequisites: Portfolio review or completion of *Ceramics & Advanced Ceramics* with a “C” or better This studio art course may be taken for either 1 or 2 semesters independently or as preparation for AP® Studio Art 3D. Studio Art 3D is for dedicated art students interested in extending their problem solving skills in three dimensions. Students develop a mature sense of aesthetic expression based on an in-depth study of sculpting techniques in a wide range of three-dimensional media such as clay, plaster, paper, fibers and metals. This class meets one period daily for ½ unit of credit each semester.

LCCC CC+ ARTS 151 (9, 10, 11, 12)

1 semester 1 credit and 3 credit hours from LCCC

Prerequisite: CC+ standards

This introductory course in photography is for students who meet CC+ requirements. Students interested in photography will learn and maintain an introductory level of photographic art production and photographic education. High achieving Avon Lake High School students will have an opportunity to enroll in a course focused on the camera, methods of development, other technical issues and conceptual and historical aspects of the medium to earn college credit through Lorain County Community College.

***Students need a 35mm manual camera SLR film camera – new or used;** a limited number of rentals are available in the LCCC bookstore each semester. This class meets one period daily for 1 unit of credit each semester.

ARTS

LCCC CC+ ARTS 152 (9, 10, 11, 12)

1 semester 1 credit and 3 credit hours from LCCC

Prerequisites: CC+ standards and Photography I 151

This advanced course in photography is for students who meet CC+ requirements. Students interested in advanced photography will learn and maintain a higher level of photographic art production and photographic education, high achieving Avon Lake High School students will have an opportunity to enroll in a course focused on advanced methods of development, other technical issues and conceptual and historical aspects of the medium to earn college credit through Lorain County Community College. Students need a 35mm manual camera SLR film camera – new or used. A limited number of rentals are available in the LCCC bookstore each semester. This class meets one period daily for 1 unit of credit each semester.

LCCC CC+ ARTS 275 (9, 10, 11, 12)

1 semester 1 credit and 3 credit hours from LCCC

Prerequisite: completion of either CC+ 151 or Beginning Photography with at least a “C” average

This is an introductory course in digital photography. Students will learn manual exposure controls with a digital SLR (single lens reflex) camera. Students will learn how to enhance and manipulate their digital photographs using the Adobe Creative Suite of software- the industry standard photo-imaging software. Students will create a body of personal photographic work through technical and artistic achievement developed through progressively creative and technically challenging projects. The CC+ student will build a substantial portfolio of digital prints by the end of the semester for final review showing a culmination of progress and perfection of the digital photographic image per LCCC's artistic standards. This class will earn the CC+ student college credit through Lorain County Community College. The CC+ student will be working on their own Apple imac running Apple's OSx 10.8 operating system and Adobe's sixth generation of the Creative Suite. *Students will need to provide a digital SLR camera, new or used, with at least an 8 megapixel file size and 'normal' focal length lens for this LCCC course. This class meets one period daily for 1 unit of credit each semester.

BUSINESS & TECHNOLOGY

Business Management (10, 11, 12)

1 semester .50 credit

Are you thinking about majoring in business in college? Learn the many activities, decisions and problems involved in managing a business. In addition, you will have the opportunity to learn more about business through guest speakers. This class meets one period daily for ½ unit of credit.

Business Marketing (10, 11, 12)

1 semester .50 credit

Various marketing activities including market research, product design, test marketing, pricing, distribution, advertising, and personal sales are explored in this course. Classroom material will be applied to activities and projects that may include media promotions, product research, pricing strategies, and placement of goods in the marketplace. Periodic speakers and field trips may be scheduled to enhance the student's opportunity to acquire marketing information. You may also have the opportunity to participate in the Junior Achievement Company Program. Cooperative learning is often used. This class meets one period daily for ½ unit of credit.

Entrepreneurship in a Global Economy (10, 11, 12)

1 semester .50 credit

If you are a business student that would like the opportunity to think outside the box and have a better understanding of what it takes to start a business, then this is the course for you. This class has been designed to develop entrepreneurial skills, business literacy, writing a business plan, and understanding of the global economy in the 21st Century. This class meets one period daily for ½ unit of credit.

Multimedia (9, 10, 11, 12)

1 semester .50 credit

This course is a project based class that covers basic multimedia concepts and applications utilizing text, graphics, animation, sound, video, and various multimedia applications in the design, development, and creation of multimedia presentations and publications in an interactive environment. This class meets one period daily for ½ unit of credit.

Personal Business Skills (9, 10, 11, 12)

1 semester .50 credit

Fee: \$5.00

The information in the class is divided into two components: Personal Finance and Career Exploration. Students will learn topics in personal finance, such as: Budgeting, debt, investing, insurance, taxes, and consumer behavior. The Career Exploration topics will explore the following: Personality test, career search tools, college majors, resume and cover letter writing, and interviews. This class meets one period daily for ½ unit of credit.

Web Page Design (Grades 9, 10, 11, 12)

1 semester .50 credit

Web Design is a semester course that may be taken as an elective. Students will learn the elements of web page design, evaluate web pages, and create websites using WordPress. This class meets one period daily.

BUSINESS & TECHNOLOGY

Word Processing for College (9, 10, 11, 12)

1 semester .50 credit

Fee: \$5.00

Is your goal to learn how to create college-related documents or is it to learn how to type? Because students enter this class with different expectations and skills, it is individualized for both groups. If you want to focus on college-related documents, you will learn how to give yourself the edge and create professional-looking college applications, essays, scholarship letters, MLA research papers and more. If you want to learn or improve your keyboarding skills, you can. Both groups improve their knowledge of Word 2010, get better at editing documents and strengthen their basic writing, grammar, punctuation and capitalization skills. Word Processing for College may be repeated up to three times for credit. Therefore, you can take it the first time to focus on your keyboarding skills and a second time to focus on college-related documents! This class meets one period daily for ½ unit of credit.

LCCC CC+ Computer Games and Simulations 120 (10, 11, 12) 1 semester 1 credit and 3 credit hours from LCCC

This is a basic course for students interested in designing, programming and developing computer games and simulations. Topics will include basic game/simulation design, programming and development as well as the role of the game/simulation designer, programmer and developer. Students will be introduced to programming using a gaming engine. The students will use provided or leverage their own created assets and create a small introductory game or games using an existing game engine software. All students will create computer games and submit them into ANGEL Drop Boxes. While there will also be tests, quizzes, and homework assignments, the games you create will be the most important part of your grade. To get a good score you are required to go beyond following the instructions in *The Game Maker's Apprentice*. To earn more than 75 points every game must include customized programming, artwork, music, or sounds. Note that unoriginal artwork, music or sounds are worth less than original work. This is the first course in the Computer Game and Simulation Design Associate's degree sequence. This class meets one period daily for 1 unit of credit and 3 escrow credit hours from LCCC.

COMPUTER SCIENCE

ALL OFFERINGS IN THE DEPARTMENT WITH AN *QUALIFY TOWARDS THE COURSE REQUIREMENTS
FOR THE OHIO DEPARTMENT OF EDUCATION (ODE) TECHNOLOGY SEAL.

AP® Computer Science (10, 11, 12) *

2 Semesters .50 credit each semester

Fee: AP® Exam \$97.00

Prerequisite: A “B” grade in Honors Computer Programming, an “A” grade in Introduction to Computer Programming, or permission from the instructor

This course provides a systematic approach to fundamental computer programming with special emphasis upon problem solving and design. Topics include, but are not limited to, data structures & algorithms, object-oriented design, and social & ethical implications of computers. This rigorous course will prepare students to take the AP® Computer Science A exam at the end of the school year. Java is the computer programming language used for the AP® exam but other languages (e.g., Python, C++, Swift) will be examined to promote a greater comprehension of programming opportunities. Students will explore potential academic and career pathways. Students are required to take the AP® exam in May.

AP® Computer Science Principles (10, 11, 12) *

2 Semesters .50 credit each semester

Fee: AP® Exam \$97.00

Prerequisite: A “B” grade in Honors Computer Programming, an “A” grade in Introduction to Computer Programming, or permission from the instructor

This AP® computer course compliments the AP® Computer Science class by focusing upon fundamentals of computing including problem solving, working with data, understanding the Internet, cybersecurity, and programming. Emphasis is placed upon how computing supports innovation in our society and the impact of digital devices upon society.

Honors Computer Programming (10, 11, 12) *

2 Semesters .50 credit each semester

Prerequisite: B- or higher in Honors Geometry, an “A” grade in Introduction to Computer Programming, or permission from the instructor

This course provides a systematic approach to fundamental computer programming with special emphasis upon problem solving and design. Topics include, but are not limited to, data structures & algorithms, object-oriented design, and social & ethical implications of computers. This course aligns with the AP® Computer Science course the following school year. Java is the primary programming language used but other languages (e.g., Python, C++, Assembly) will be examined to promote a greater comprehension of programming opportunities. Students will explore potential academic and career pathways.

Introduction to Computer Programming (9, 10, 11, 12)

1 Semester .50 Credit

This course provides a systematic approach to the fundamentals of computer programming. Programming topics will include data structures & algorithms, object-oriented design, and social & ethical implications of computers. Special emphasis will be placed upon integrating programming skills into other academic subjects and professions such as the creation of apps, games, and research. This course prepares students for taking Honors and/or AP® Computer Programming the following year. Other programming language (e.g., Python, C++, Scratch) will be examined to promote greater comprehension of programming opportunities.

COMPUTER SCIENCE

Engineering Drawing I (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$30.00

This course may be considered a fine art credit. This course is intended to meet the needs of the technical student as well as the student who plans to attend college after graduation for a degree in engineering or architecture. A student may take up to four years of engineering drawing. First year engineering drawing consists of studying various types of mechanical drawings (e.g. 3-view, sectional, auxiliary). Dimensioned drawings are also covered. To be successful, students need to ask for teacher guidance, but have the self-discipline to work alone. Expression of original ideas in drawing is encouraged. All necessary equipment and supplies are provided.

Engineering Drawing I Honors (9, 10, 11, 12) *

2 semesters .50 credit each semester

Fee: \$30.00

Engineering Drawing I Honors includes all of the same coursework and Engineering Drawing. The honors workload exceeds the workload of the regular level course by including the requirements to earn 2 credit hours from LCCC (CAD 111) in 2-D design using Autodesk AutoCAD. This course may be considered a fine art credit.

Engineering Drawing II Honors (10, 11, 12) *

2 semesters .50 credit each semester

Fee: \$30.00

Prerequisites: Engineering Drawing I Honors with a “B” average or above.

Students will continue to develop their skills and abilities started in Engineering Drawing I. Problems in Engineering Drawing II are more challenging than the first year course. Students will earn 3 credit hours through LCCC (CAD 213) Introduction to Solid Works. This course will act as an introduction to Solid Works and parametric design.

Engineering Drawing III Honors (11, 12) *

2 semesters .50 credit each semester

Fee: \$30.00

Prerequisites: Engineering Drawing II with a “B” average or above.

Students will continue to develop their skills and abilities started in Engineering Drawing II. Students will earn 3 credit hours through LCCC using the design software CREO. Additionally, Students will earn 2 credit hours through LCCC in geometric dimensioning and tolerances.

Engineering Drawing IV Honors (12) *

2 semesters .50 credit each semester

Fee: \$30.00

Prerequisites: Engineering Drawing III with a “B” average or above.

Students continue to develop their skills and abilities started in Engineering Drawing III. Students will select a concentration for study. Possible topics include Solid Works certification, architecture, video game design using the Unreal Engine, animation using Maya, amongst others.

INDUSTRIAL TECHNOLOGIES

Architecture I Honors (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$25.00

Prerequisite: Engineering Drawing I Honors

Architecture I Honors introduces students to the fundamental concepts, theories, and practices of the field of architecture. Students will create traditional 2D blueprints and also 3D models. Classroom CAD software will include AutoCAD and Revit. Student projects may include traditional building models and virtual reality tours of their structures which will promote creative problem solving, critical thinking, and the development of technical skills. All necessary equipment and supplies are provided but a quality PC at home is recommended for individuals in serious pursuit of becoming an architect.

Computer Building and Networking (11, 12)*

2 Semesters .50 credit each semester

Fee: \$25.00

Prerequisite: Junior Status

This course provides an in-depth study of Computer Repair and Troubleshooting. The course is designed for those students who wish to increase their knowledge of how computers function and learn the fundamentals of supporting and troubleshooting computer hardware and software. This is for students who are considering this area as a career. Windows, Apple, and Linux operating systems will be investigated. Computer architecture shall include desktop, laptop, and Raspberry Pi systems. This class meets one period a day for 1/2 unit of credit each semester.

Computer Building and Networking Honors (11, 12) *

2 semesters .50 credit each semester

Fee: \$25.00 and cost of exams

Prerequisite: Junior status

This course provides an in-depth study of computer repair and troubleshooting. The course is designed for those students who wish to increase their knowledge of how computers function and learn the fundamentals of supporting and troubleshooting computer hardware and software. This is for students who are considering this area as a career. Students will take the CompTIA A+ industry exam upon completion of this coursework. This class meets one period a day for ½ unit of credit each semester.

Computer Building and Networking II Honors (12) *

2 semesters .50 credit each semester

Fee: \$25.00 and cost of exams

Prerequisite: Senior status and must have successfully completed Computer Building and Networking I Honors

Students will study advanced networking topics including the design, building, and securing of local area networks. Students will take the Coptia Net+ exam for certification at the end of the year.

Drone Technology (10, 11, 12)

1 semester .50 credit

Fee: \$25.00

Prerequisite: Robotics

Drone Technology, or more specifically Unmanned Aerial Vehicles (UAV), expands upon the Robotics course by introducing students to the field of drone technology. Course materials will cover, but not be limited to, UAV flight operations, classifications, payloads, current issues and trends, certification requirements, and academic and career pathways. The curriculum is created to ensure that students with varying learning styles and levels can accomplish the lesson goals.

INDUSTRIAL TECHNOLOGIES

Introduction to Engineering Honors (PLTW) (9, 10, 11, 12) *

2 semesters .50 credit each semester

Fee: \$20.00

Prerequisite: Completion of Algebra I or Equivalent with a “C” or better.

This is the first course of the Project Lead the Way 3-year sequence. This course teaches problem solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using specialized 3D computer design software. If you decide to continue in the PLTW curriculum, you will attend Lorain County Community College for a half day during your junior and senior years. You will earn dual high school and college credit. During the Capstone course, titled Engineering Design and Development, students will work with a company to solve a current engineering problem. 9th grade with recommendation. This class meets one period a day for ½ unit of credit each semester.

Introduction to Manufacturing (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$60.00

This course provides students with an introduction to both modern and traditional manufacturing methods and processes. It is designed to meet the needs of students of all ability levels and will challenge both beginners and the experienced. Topics of study include: a) manufacturing processes and techniques; b) materials; c) quality assurance; and d) engineering and trade career pathways. Students are expected to dress properly and provide their own safety glasses. Wearing open toed shoes and/or loose clothing is strictly forbidden for safety reasons. This class meets one period daily for ½ unit of credit each semester.

Introduction to Robotics (9, 10, 11, 12)

2 semesters = .66 credits high school and 2 hours from Tri-

C.Tri-C CC+ EET-1100

This course provides students with an introduction to direct circuits, binary and hexadecimal numbering systems, and elementary programming languages statements (involved in programming a robot in the lab).

Tri-C CC+ EET-1150

1 semester .66 credit

This course provides an introduction to robotic principals using C programming with an emphasis on math and how it applies to programming robotics and robot controls. Lessons will be applied to robots in a project based instruction. This class meets daily for ½ unit of credit each semester.

Robotics (9, 10, 11, 12)

1 semester .50 credit

Fee: \$10.00

The robotics class creates the excitement of a competitive atmosphere among classmates to inspire and engage students. Students will go through a design process to learn how to build a mobile robot to play a sport-like game, construction skills, and learn programming using C++ software. During this process they will learn key STEM principles, sensors, and robotics concepts. The curriculum is created to ensure that students with varying learning styles and levels can accomplish the lesson goals.

MUSIC

ALL OFFERINGS IN THIS DEPARTMENT QUALIFY TOWARDS THE COURSE REQUIREMENTS FOR THE OHIO DEPARTMENT OF EDUCATION (ODE) FINE & PERFORMING ARTS GRADUATION SEAL.

IMPORTANT NOTICE INSTRUMENTAL AND VOCAL ACADEMIC LIMITATIONS:

Students shall be able to earn academic credit in a maximum of one instrumental class (Chamber Orchestra, Concert Band, Concert Orchestra, String Orchestra, Symphonic Band) plus a maximum of one vocal music class (Men's/Women's Chorus, Chorale, Da Cantari Choir) during any given grading period during each specific academic year. Encore, *Popular Music Through the Ages, Music Theory AP®, World Music: Drumming, Encore, and Jazz Band are excluded from these academic limitations.

AP® Music Theory (10, 11, 12)

2 semesters .50 credit each semester

Fee: AP® Exam \$97.00

Advanced Placement Music Theory is designed to give the basic background in all aspects of music theory with emphasis on harmonic and melodic analysis and composition. The study of theory begins with music notation, intervals, major and minor scales, modes and triads. Harmonization in four parts using root position, first and second inversion chords and seventh chords is a core of music theory. Analysis of common musical forms, such as the fugue and sonata allegro form is included. Daily ear training in melody harmony and rhythm will also be part of this course. There is daily homework and additional projects in the analysis of music and creative projects in composition. The content of this course is much the same as a college or university first year theory course. Prerequisites: Instructor permission required. Students must possess an understanding and ability to use basic music theory and pass a written assessment of these skills and knowledge. This class meets one period daily for ½ unit of credit each semester.

Chamber Orchestra (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Chamber Orchestra is open to students in grades 10-12 who play a string instrument (violin, viola, cello, or double bass). This course is for more advanced string students, and the group will perform music at a higher difficulty level. Students will focus on more advanced techniques of playing a string instrument such as bowing styles, balance, and shifting into higher positions. Repertoire is selected from Grade 4-5 (contest class B and A) literature. Membership is pending upon audition and completion of Concert or String Orchestra for at least one year. Chamber Orchestra will have a minimum of four required performances each year, including OMEA State Orchestra Contest. This class meets one period daily for 1/2 unit of credit each semester.

Chamber Orchestra Honors (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Chamber Orchestra Honors is open to students in grades 10-12 and includes all of the same coursework as chamber orchestra. Requirements for honors credit are: enrolled for the entire year; participation in solo and ensemble contests; and permission from the director. The honors workload exceeds the workload of regular level courses in the music department. Additional requirements include but are not limited to extra rehearsals, papers, attendance at outside performances, and other requirements as determined by the director. Chamber Orchestra Honors and Chamber Orchestra meet during the same period each day. Membership is pending upon audition and completion of Concert or String Orchestra for at least one year. Chamber Orchestra Honor students will have a minimum of four required performances each year including OMEA State Orchestra Contest. This class meets one period daily for ½ unit of credit each semester.

MUSIC

Chorale Honors (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Prerequisite: An audition with the instructor is required. Students must submit an individual plan for meeting the grade requirements before acceptance into the course

Chorale Honors will be offered in a Hybrid format. This course will utilize both in person and online learning. Students will be required to attend in person and online instruction based on their determined voice placement. Please email Mr. Jarufe with scheduling specific questions. The Avon Lake High School Chorale Honors is an advanced course in choral musicianship (SATB). This course meets as part of the chorale class and students are responsible for the same coursework as the chorale. Students will be challenged with an intense study of additional work. This work includes recitals, written performance critiques, research papers, presentations, contest performances and additional ensemble participation. Attendance at and full participation in all after school rehearsals, auditions, contests and performances are mandatory for all students and constitute a portion of the overall grade. This course may be repeated for elective credit. This class meets one period daily for ½ unit of credit each semester.

Concert Band (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

This band is open to all grade levels and includes the woodwind, brass, and percussion families of instruments. The Concert Band studies and prepares a variety of musical compositions for public performances. Performances are scheduled throughout the year and members are encouraged to participate in solo and ensemble contests. Requirement: Concert attendance is a requirement. During the first semester, this band combines with the Symphonic Band for marching band. Freshmen not participating in fall sports will participate in marching band unless excused for medical reasons or by the director. This class meets one period daily for ½ unit of credit each semester.

Concert Band Honors (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

This band is open to all grade levels and includes all of the same coursework as Concert Band. The goal of honors band credit is to improve student musicianship. Requirements for honors credit are: enrolled for the entire year; participation in marching band; participation in solo and ensemble contest; and permission from the director. The honors band workload exceeds the workload of other courses at the same level in the music department. Concert Band Honors and Concert Band meet during the same period each day and students are responsible for the same coursework as Concert Band. There are required performances and extra rehearsals scheduled throughout the year. This class meets one period daily for ½ unit of credit each semester.

Concert Orchestra (9)

2 semesters .50 credit each semester

Fee: \$35.00

Requirement: Students must have played an instrument for a minimum of two years, either by taking private lessons or by participating in middle school orchestra.

Concert Orchestra is for students in 9th grade as an introduction to playing high school level orchestral repertoire. The goals of this course are to develop basic fundamental musical knowledge and proper instrument technique, and to study and perform music that is appropriate for all students. Concert orchestra will have a minimum of three required performances each year. This class meets one period daily for ½ unit of credit each semester.

MUSIC

Da Cantari Honors (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Requirement: An audition with the instructor is required

This is an advanced course in choral musicianship. This course meets as part of the Da Cantari class and students are responsible for the same coursework as the Da Cantari. Students should be vocally advanced, willing to perform alone and in small ensembles within large works or choral pieces programmed for Da Cantari. Students will be challenged with an intense study of additional work that includes performing in recitals, written performance critiques, research papers, presentations, contest performances and additional ensemble participation. Attendance at and full participation in all after school rehearsals, auditions, contests and performances are mandatory for all students and constitute a portion of the overall grade. This course may be repeated for elective credit. Students must submit an individual plan for meeting the grade requirements before acceptance into the course. This class meets one period daily for ½ unit of credit each semester.

Encore (9, 10, 11, 12)

1 semester .50 credit

The course provides opportunities for two diverse groups of students: 1.) High school students who have never played but want to learn to play a musical instrument, and 2.) High school students looking for advanced musical experiences with solos or small ensembles, learning a secondary instrument, and/or peer tutoring. This course serves as an introduction to playing a musical instrument or for the advanced high school musicians. This course is not a substitute for participation in Concert Band or Symphonic Band. This class meets one period daily for ½ unit of credit each semester.

Jazz Band (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Requirement: Concert attendance is a requirement

This band is open to any student concurrently enrolled Concert Band or Symphonic Band and with approval from the director. A student playing a non-traditional concert band instrument (i.e. piano, guitar, bass, etc.) can enroll with permission from the director. Students will study jazz scales and modes, jazz technique, and explore a variety of jazz styles. Students will attend rehearsals after school as needed in preparation for performances. This class meets one period daily for ½ unit of credit each semester.

Men's Chorus (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Prerequisite Requirement: All students who desire to participate in Men's Chorus must have participated in 8th Grade Choir at Learwood Middle School, or have a voicing placement with the High School Choral Director.

The Avon Lake High School Men's Chorus is a tenor and bass choral ensemble which is open to any male singer who possesses a strong desire to sing in a choral ensemble. This course will reinforce the vocal techniques: tone production, breathing, vowel formations, blend and balance, and sight-reading. Additionally, this course will reinforce rehearsal etiquette and performance practices. Men's chorus performs four concerts during the year and participates in district and state contests at the "C/B" literature level. Participation in performances is mandatory. This class meets one period daily for ½ unit of credit each semester.

Musical Connections (10, 11, 12)

1 semester .50 credit

This course will cover topics, including, but not limited to, musical aesthetics (why people like specific musical types), how to listen to music, and will expose students to cultural and musical connections within and between various genres of musical styles and time periods. Students will demonstrate mastery of course content through written assignments in response to required listening, class presentations, and oral and written assessments. This class meets one period daily for one semester and earns ½ unit of credit.

MUSIC

Popular Music Through the Ages (10, 11, 12)

2 semesters .50 credit each semester

This course covers the study of composers and styles of musical composition within historical periods. Emphasis is on listening to music in all styles, including classical, jazz, rock, film music, and musicals. This course is a chronological overview of music from 1500 to the present. Various research projects are required throughout the year. A goal of this course is the recognition of various historical periods by the composers and styles of composition. This class meets one period daily for

½ unit of credit each semester.

String Orchestra (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

String Orchestra is open to students in grades 10-12 who play a string instrument (violin, viola, cello, or double bass). The goals of this course are to develop fundamental musical knowledge and proper instrument technique, as well as to study and perform repertoire that is challenging yet appropriate for all students. Repertoire is selected from Grade 3-4 (contest class C and B) literature. String Orchestra will have a minimum of four required performances each year, including the OMEA State Orchestra Contest. This class meets one period daily for ½ unit of credit each semester.

String Orchestra Honors (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

String Orchestra Honors is open to students in grades 10-12 and includes all of the same coursework as String Orchestra. Requirements for honors credit are: enrolled for the entire year; participation in solo and ensemble contests; and permission from the director. The honors workload exceeds the workload of regular level courses in the music department. Additional requirements include but are not limited to extra rehearsals, papers, attendance at outside performances, and other requirements as determined by the director. String Orchestra Honors and String Orchestra meet during the same period each day. There are required performances and extra rehearsals scheduled throughout the year. This class meets one period daily for ½ unit of credit each semester.

Symphonic Band (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

This band is open to all grade levels pending a successfully completed audition and permission from the director. The Symphonic Band provides opportunities for students to study and perform advanced literature and to develop their musical potential and aesthetic understanding of music. The band plays varied music from serious and difficult to light and novel. Performances and extra rehearsals are scheduled throughout the year and members are required to participate in the solo and ensemble contest. During the first semester, this band combines with the Concert Band for marching band. Members not participating in fall sports are expected to participate in marching band unless excused for medical reasons. This class meets one period daily for ½ unit of credit each semester.

MUSIC

Symphonic Band Honors (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

This band is open to all grade levels pending a successfully completed audition and permission from the director. This band includes all of the same coursework as Symphonic Band. The Symphonic Band provides opportunities for students to study and perform advanced literature and to develop their musical potential and aesthetic understanding of music. The goal of honors band credit is to improve student musicianship. Requirements for honors credit: enrolled for the entire year; participation in marching band; participation in solo and ensemble contests; and permission from the director. The honors band workload exceeds the workload of other courses at the same level in the music department. Symphonic Band Honors and Symphonic Band meet during the same period each day and students are responsible for the same coursework as Symphonic Band. There are required performances and extra rehearsals scheduled throughout the year. This class meets one period daily for ½ unit of credit each semester.

Women's Chorus (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Prerequisite Requirement: All students who desire to participate in Women's Chorus must have participated in 8th Grade Choir at Learwood Middle School, or have a voicing placement with the High School Choral Director.

The Avon Lake High School women's chorus is a soprano and alto choral ensemble which is open to any female singer who possesses a strong desire to sing in a choral ensemble. This course will reinforce the vocal techniques: tone production, breathing, vowel formations, blend and balance, and sight-reading. Additionally, this course will reinforce rehearsal etiquette and performance practices. Women's chorus performs four concerts during the year and participates in district and state contests at the "C/B" literature level. Participation in performances is mandatory. This class meets one period daily for ½ unit of credit each semester.

World Music: Drumming (9, 10, 11, 12)

1 semester .50 credit

Fee: \$35.00

Prerequisites: The desire to play percussion instruments and learn about other cultures.

World Music Drumming helps students understand the contexts of music-making in specific countries, within regions, and for humankind in general. Students discuss, compare, and contrast music and cultures of the world's peoples. The class creates a series of learning experiences with music, music-making and observations of music from various countries; a sensitivity to the role of music in human life; an understanding of globalization; and an understanding of music in relation to gender, class, and ethnicity. This course offers a unique hands-on opportunity for students to play percussion instruments who would not typically have performing experiences available to them. This course is not a substitute for participation in Concert Band or Symphonic Band. This class meets one period daily for ½ unit of credit each semester.

WORLD LANGUAGE

Three years of a world language or two years of two different languages are strongly recommended for students planning to attend college. As world language learning is cumulative, **students must pass both semesters of a world language course in order to be permitted to enroll in the next sequential course.**

AMERICAN SIGN LANGUAGE I

American Sign Language I (9, 10, 11, 12)

2 semesters .50 credit each semester

This course is the natural language used by deaf individuals and the Deaf community. This is an overview of American Sign Language (ASL), its basic vocabulary, structure, syntax and grammar. Students will focus on mastering the basics of fingerspelling, numbers, colors, facial grammar, and sentence structure; students will also learn conversational/cultural behaviors necessary to hold a beginning-level conversation in ASL, with Deaf/hard-of-hearing native users of the language. Introductory information about deaf culture will also be presented, along with deaf humor, to provide students with a broad picture of language and culture. This course may be offered through Interactive Video Distance Learning.

AMERICAN SIGN LANGUAGE II

American Sign Language II (10, 11, 12)

2 semesters .50 credit each semester

This course is a continuation of American Sign Language I, the natural language used by Deaf individuals and the Deaf community. Students will deepen their understanding of the grammatical structure of ASL as well as improve both their receptive and expressive signing skills. The students will learn additional number concepts, such as time, money, fractions, and ordinal numbers, personal and possessive pronouns, giving and receiving directions, making requests, action words, and common phrases and sentences used in everyday situations. A continuation of Deaf culture and its history will be covered. This course may be offered through Interactive Video Distance Learning.

FRENCH

AP® French (12)

2 semesters .50 credit each semester

Fee: AP® Exam \$97.00

AP® French Language and Culture is comparable in content and difficulty to a third-year college level course in French Composition and Conversation. Students who enroll in this AP® course must have a French teacher recommendation and have received above a final grade of “B” for the previous year. Learning and production (interpersonal, interpretive and presentational) will focus on the following six themes: Contemporary Life, Personal and Public Identities, Global Challenges, Science and Technology, Beauty and Aesthetics, and Families and Communities. Students should already have a strong command of French grammar and vocabulary. French will be spoken by both student and teacher. Students are required to take the AP® French Language Exam. A French-English dictionary is required. This class meets one period daily for ½ unit of credit each semester.

French I (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

Study the language spoken on five of the seven continents and used extensively throughout our ever-shrinking global world. In this introductory course, the focus will be on communication and the cultural diversity of the French-speaking world. Listening, writing, reading and speaking activities will expand the students’ use of the language beyond the classroom. This class meets once daily for ½ unit of credit each semester.

WORLD LANGUAGE

French II (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

This course, designed for students who have successfully completed French I, includes work in the four traditional areas of language acquisition: listening, speaking, reading and writing. Students will develop increased ability to speak and write French by learning vocabulary and idiomatic expressions and by studying important grammatical structures. Reading skills will be developed through exposure to short selections of written French, authentic realia, prose and poetry. Students will continue their study of Francophone cultures, history, customs and traditions. This class meets once daily for ½ unit of credit each semester.

French II Honors (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

This course, designed for students who completed French I with above-average grades, includes work in the four traditional areas of language acquisition: listening, speaking, reading and writing. Students will develop an increased ability to speak French by learning vocabulary and idiomatic expressions and by studying important grammatical structures. Reading skills will be developed through exposure to short selections of written French, authentic realia, prose and poetry. This course will be taught at a more rigorous pace than French II and will explore all concepts of the French Language and Culture with greater scope and sequence. Several multimedia materials and online resources will be implemented. This class meets once daily for ½ unit of credit each semester.

French III (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

For those students who have successfully completed French II, this lively course builds and expands upon the ever-developing communicative skills. French literature will play an important role in the understanding of French culture and history. Students will increase their understanding and production of the language through multimedia materials. This class meets once daily for ½ unit of credit each semester.

French III Honors (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

This course will continue to build on the skills introduced in French I and II and will be taught at a more rigorous pace than French III. Students will be required to speak almost exclusively in French and will learn about all aspects of the French Language and Culture with greater scope and depth. Several multi-media materials and online resources will be implemented along with various Pre-AP® lessons and activities. This class meets one period daily for ½ unit of credit each semester.

WORLD LANGUAGE

French IV (11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

This course is designed for advanced high school students of French. It provides an in-depth view of France, its culture, and its civilization by means of a systematic introduction to French history and literature. Additionally students will review and expand upon their knowledge of French grammatical structures working toward building a large, active French vocabulary. Regular exposure to authentic spoken French in films, music and other recorded materials will enrich students' understanding and production of authentic French language. This class meets one period daily for ½ unit of credit each semester.

French IV Honors (11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

This course is designed as Pre-AP® French for advanced high school students of French, primarily those who achieved above-average grades in French III HONORS. It provides an in-depth view of the Francophone world focusing upon cultural awareness, communication and the following six themes: Contemporary Life, Personal and Public Identities, Global Challenges, Science and Technology, Beauty and Aesthetics, and Families and Communities. Regular exposure to authentic spoken and written French in films, music, podcasts, other recorded materials, newspapers, blogs, Internet sites etc. will enrich student understanding and production of authentic French language. Additionally, students will review and expand upon their knowledge of French grammatical structures with more scope and depth working toward building a large, active French vocabulary. A French- English dictionary is required. This class meets one period daily for ½ unit of credit each semester.

WORLD LANGUAGE

SPANISH

AP® Spanish (12)

2 semesters .50 credit each semester

AP® Exam \$97.00

AP® Spanish Language and Culture is comparable in content to a third-year college level course in Spanish Composition and conversation. Students who enroll in this AP® course must have a Spanish teacher recommendation and should have received a final grade of “B” or above for the previous year. Learning and production (interpersonal, interpretive and presentational) will focus on the following six themes: Contemporary Life, Personal and Public Identities, Global Challenges, Science and Technology, Beauty and Aesthetics, and Families and Communities. Students should already have a strong command of Spanish grammar and vocabulary. Spanish will be spoken by both student and teacher almost exclusively. Students are required to take the AP® Spanish Language and Culture Exam. This class meets one period daily for ½ unit of credit each semester

Spanish I (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

Spanish I is an entry level course designed to introduce students to the Spanish Language and the cultures of the Spanish-speaking World. This is an interactive course where students will learn the language by reading, writing, listening and speaking at the novice level in Spanish. The course will explore basic language structures in the present tense and include everyday vocabulary. Program includes video, audio, online, and take-home support to enhance learning. This class meets one period daily for ½ unit of credit each semester.

Spanish II (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

Students will build on concepts from Spanish I with expansion in present and past tenses, as well as foundational grammar. Course fluency development in reading, writing, speaking and listening are intensified. Program includes video, audio, online, and take-home support to enhance learning. This class meets one period daily for ½ unit of credit each semester.

Spanish II Honors (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

Students will build on concepts from Spanish I with expansion in present and past tenses, as well as foundational grammar. Course fluency development in reading, writing, speaking and listening are intensified. This course will be taught at a more rigorous pace than Spanish II and will explore concepts with greater scope and depth. Students who participate in this class should have received above-average grades in Spanish I. Program includes video, audio, online and take-home support to enhance learning. This class meets one period daily for ½ unit of credit each semester.

Spanish III (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

This year students will continue to build on the skills introduced in Spanish I and II. Much more speaking in Spanish will be required, and; a more in-depth culture study will commence. Students will implement a variety of tools in their language study including several multimedia materials and online resources. This class meets one period daily for ½ unit of credit each semester.

WORLD LANGUAGE

Spanish III Honors (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

This course will continue to build on the skills introduced in Spanish I and II and will be taught at a more rigorous pace than Spanish III. Students who participate in this class should have received above-average grades in Spanish I and II. Students will also be required to speak almost exclusively in Spanish and will learn about all aspects of Spanish Culture and Language with greater scope and depth. In addition, this course will include several Pre-AP® Lessons and Activities. Several multi-media materials and online resources will be implemented. This class meets one period daily for ½ unit of credit each semester.

Spanish IV (11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

Students will expand vocabulary, knowledge of culture, literature, history, geography and speaking ability this year in Spanish. The language is also applied to everyday situations through open discussions, presentations and projects. This class is conducted exclusively in Spanish. This class meets one period daily for ½ unit of credit each semester.

Spanish IV Honors (11, 12)

2 semesters .50 credit each semester

Fee: \$9.00

Students will expand vocabulary, knowledge of culture, literature, history, geography and speaking ability this year in Spanish. The language is also applied to everyday situations through open discussions, presentations and projects. This class is conducted ENTIRELY in Spanish. This course will be taught at a more rigorous pace than Spanish IV and will explore all concepts with greater scope and depth. This course will also contain several Pre-AP® Lessons and Activities. Program includes video, audio, online and take-home support to enhance learning. This class meets one period daily for ½ unit of credit each semester.

HEALTH EDUCATION

Health 10

1 semester .50 credit

Fee: \$5.00

***Required class for Graduation**

Health 10 is a required course focusing on the three aspects of holistic health: mental health, social health, and physical well-being. This course will include topics related to promoting wellness and disease prevention; health advocacy and decision making skills; teenage dating violence (State mandated); teenage suicide prevention (State mandate); teenage abstinence and pregnancy prevention; communicable disease and sexually transmitted infections; and non-communicable diseases and disabilities. This class meets one period daily for one semester.

PHYSICAL EDUCATION

Physical Education Graduation Requirements - Students are required to take two different semesters of physical education within their four years to meet the State mandated 1/2 credit physical education graduation requirement. Students may choose from the following courses to meet their requirements:

Important Physical Education Information

- No student can be excused from physical education except by a physician.
- If a doctor's excuse exceeds 5 days, the student must make up the class activity for credit or alternate assignment.
- All physical education classes will include a final exam.
- Classes may be taken more than one time for credit.
- All students are expected to dress in appropriate workout clothing and shoes for the activity. All clothes must conform to the Avon Lake City Schools dress code policy.
- All physical education classes will measure student success on the State of Ohio's Physical Education Academic Content Standards.

Physical Education (9, 10, 11, 12)

1 semester .25 credit

Fee \$5.00

This course is designed as an introduction to Avon Lake's physical education program. Students will receive an introduction to Team Sports, Lifetime and Leisure, and S.W.A.Q. In addition, all students will be required to successfully complete a fitness handbook, complete with written assessments and physical fitness testing (State of Ohio PE evaluations). This class meets one period daily for 1 semester.

Adapted/Modified Physical Education (9, 10, 11, 12)

1 semester .25 credit

Prerequisite: Diagnosis from a trained medical professional stating that the individual is physically/mentally incapable from fully participating in a regular physical education class.

The Adapted/Modified Physical Education Program will develop, through selected activities, a fitness program that will assist the individual to live effectively within his/her abilities. Two semesters of this class will fulfill state and local requirements for physical education. This class meets one period daily for one semester.

PHYSICAL EDUCATION

Yoga, Balance, and Core (9, 10, 11, 12)

1 semester .25 credit

Fee: \$5.00

This course is designed to give any student the opportunity to learn techniques used for obtaining optimal physical fitness. Students will benefit from comprehensive yoga, balance and core strength activities. Students will learn the basic fundamentals of overall fitness training and conditioning. Students will be empowered to make wise choices, meet challenges, and develop positive behaviors in fitness, wellness, and movement activity for a lifetime. This class meets one period daily for 1 semester.

Team Sports (9, 10, 11, 12)

1 semester .25 credit

Fee: \$5.00

This class is designed for the student to participate in fun-filled and popular recreational activities and introduce the games' rules, game strategies, sportsmanship, safety, and knowledge of equipment and facilities. Participation may include volleyball, football, softball, badminton, ultimate Frisbee, etc. Students will also focus on personal fitness to tone muscles and reduce body fat. Students may participate in yoga, BOSU, circuit training, running/walking, and weightlifting. Students will complete skills and fitness testing to determine skill levels multiple times throughout the course.

Lifetime Recreation and Leisure (9, 10, 11, 12)

1 semester .25 credit

Fee: \$80.00 there will be daily fees charged for some activities, such as bowling and golf, this course requires a "play as-you-go" policy

This course is designed to allow students to work on a variety of individual lifetime activities. The focus of the course will be on recreational and general wellness. Students will be instructed in and participate in the following activities: badminton, tennis, table tennis, bocce ball, corn hole, recreation games and fitness walking. This list is not meant to be all encompassing, and may be modified without notice by the instructor. This class meets one period daily for 1 semester.

S.W.A.Q. (Speed, Weights, Agility, Quickness) (9, 10, 11, 12)

1 semester .25 credit

Fee: \$5.00

This comprehensive course provides students with a general understanding of S.W.A.Q. concepts and the knowledge to help students increase performance while decreasing risk of injury through proper training techniques. In addition, there will be emphasis on the importance of increased physical fitness and its positive effect on performance. This course focuses on improving speed, change of direction, improving reaction time, and increasing strength which is made possible through proper training strategies. This class meets one period daily for one semester.

Walking for Fitness I (9, 10, 11, 12)

1 semester .25 credit

Fee: \$5.00

This course is designed for the student to participate in a walking and fitness program that will enhance overall individual wellness. Students will focus on improving personal fitness through various walking activities designed to improve overall physical wellness. This will include activities geared to improve cardiovascular, muscular, and skeletal systems of the body. Students will also engage in activities to tone muscles and reduce body fat that may include yoga, BOSU, circuit training, running, and weightlifting.

Walking for Fitness II (9, 10, 11, 12)

1 semester .25 credit

Fee: \$5.00

Designed to be a continuation of Walking for Fitness I, this course aims to build upon the student's knowledge and experience gained in the previous course. *This class meets one period daily for one semester.*

LANGUAGE ARTS

Honors Pathway

9	English 9 Honors
10	English 10 Honors
11/12	AP® Language and Composition; AP® Literature and Composition; AP® Research

College Bound Pathway

9	English 9 or English 9 Honors		
10	English 10 or English 10 Honors		
11/12	<p>Students who successfully complete AP® Seminar may take AP® Research either Junior/Senior year as an English Credit.</p> <p>Students need four (4) credits of English to graduate. The department recommends that students take at least two (2) literature classes and one (1) Composition course during their Junior and Senior years.</p> <table border="0"> <tr> <td style="vertical-align: top;"> <p><u>Writing</u> College Composition Creative Writing Journalism *Language Arts Skills Public Speaking CC+ English 161 CC+ English 162</p> <p><u>Electives</u> *Broadcast Journalism 2 – Project AL Live Production *Introduction to Broadcast Journalism</p> </td><td style="vertical-align: top;"> <p><u>Literature</u> American Literature British Literature *Reading and Literature Studies in the Novel</p> </td></tr> </table>	<p><u>Writing</u> College Composition Creative Writing Journalism *Language Arts Skills Public Speaking CC+ English 161 CC+ English 162</p> <p><u>Electives</u> *Broadcast Journalism 2 – Project AL Live Production *Introduction to Broadcast Journalism</p>	<p><u>Literature</u> American Literature British Literature *Reading and Literature Studies in the Novel</p>
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Courses with an asterisk (*) are not accepted by the NCAA.

LANGUAGE ARTS

AP® Language and Composition (11, 12)

2 semesters .50 credits each semester

FEE: AP® Exam \$97.00

Prerequisite: English 10 Honors with an A or B average or the recommendation from an English faculty member.

Advanced Placement Language and Composition is a college level course for juniors and seniors. This course carefully analyzes a broad range of nonfiction prose, deepening students' awareness of rhetoric and how language works. As this is a college-level course, performance expectations are appropriately high, and the workload is challenging. Students are expected to commit to a minimum of five hours of coursework per week outside of class. Often, work involves long-term writing and reading assignments, so effective time management is important. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss prose. Summer reading is required. This class meets one period daily for ½ unit of credit each semester.

AP® Literature and Composition (11, 12)

2 semesters .50 credit each semester

Fee: AP® Exam \$97.00

Prerequisites: AP® Language and Composition or one full year of CC+ English with an A or B average or the recommendation from an English faculty member.

Advanced Placement Literature and Composition is a college level course for juniors and seniors. Through the close reading of literary texts, students will deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As this is a college-level course, performance expectations are appropriately high, and the workload is challenging. Students are expected to commit to a minimum of five hours of coursework per week outside of class. Often, work involves long-term writing and reading assignments, so effective time management is important. Because of the demanding curriculum, students must bring to the course sufficient command of mechanical conventions and an ability to read and discuss all literary genres. Summer reading is required. This class meets one period daily.

AP® Research (11, 12)

2 semesters .50 credit each semester

Fee: AP® Exam \$143.00

Prerequisites: Successful completion of AP® Seminar. Teacher or counselor recommendation. AP® Research allows students to deeply explore an academic topic, problem, or issue of individual interest. Through this exploration, students design, plan, and conduct an investigation to address a research question. Students will further develop the skills acquired in the AP® Seminar course by learning research methodology; employing ethical research practices; and accessing, analyzing and synthesizing information. Students will reflect on their skill development, document their processes, and curate artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of approximately 4000-5000 words (accompanied by a performance or exhibition of product where applicable) and a presentation with an oral defense.

American Literature (11, 12)

1 semester .50 credit

Fee: \$17.00

This course is a study of America's literature from Native American traditions to the present. This course is arranged as a chronological study of the development of American Literature. Many writers, representative of various periods, will be studied. This class meets one period daily.

British Literature (11, 12)

1 semester .50 credit

This course is a study of England's literature from *Beowulf* to the present. The course is arranged as a chronological study of the development of British literature. Writers representative of various periods will be studied. This class is recommended for college bound students. This class meets one period daily.

LANGUAGE ARTS

Broadcast Journalism 2 –Project AL Live Production (10, 11, 12)

2 semester 1.0 credit each semester

Prerequisite: Introduction to Broadcast Journalism, Application, and Possible Audition

Students in this course will produce Avon Lake High School's live newscast, *Anchor News Now*! Students will learn and execute every on-air and behind-the-scenes job for our production. Every student will be expected to anchor the live shows, direct, run the audio board, operate cameras, edit videos, and cover school events. Students in this class must show responsibility before they are selected to be the "faces of Avon Lake High School." Students will be expected to cover the news of our school and that takes place both during and after school (at times). Shows will be posted on the Avon Lake City School's Website and well as on the Anchor News Now! social media pages.

College Composition (11, 12)

1 semester .50 credit

The main composition emphasis in this course is on formal, expository writing. Opportunity is provided for the review of grammar and the expansion of vocabulary. The major requirement is a research paper that incorporates the proper MLA format. Numerous in-class and out-of-class writings are required. All assigned work in this course must be completed and accepted before credit is given. Computer skills are important in this course. This course is recommended for students not taking AP® or CC+ English. This class meets one period daily.

Creative Writing (11, 12)

1 semester .50 credit

This course is designed for students who wish to go beyond expository writing. Daily writings, short stories, essays, poetry, satire, and other types of writing will be explored. Writing will vary from short poems to essays to short stories. All assigned work in this course must be completed and accepted before credit is given. This class meets one period daily.

English 9

2 semesters .50 credit each semester

English 9 engages students in a wide variety of experiences in literature, composition, and grammar. In literature, the students read poems, short stories and a full length Shakespeare play to understand and appreciate their content and artistry. In composition, students develop their skills in creative writing and expository prose. Exercises in grammar, punctuation, and vocabulary are included. Students are required to achieve a passing grade in both semesters of English 9 to graduate. Students must purchase additional materials. This class meets one period daily.

English 9 Honors

2 semesters .50 credit each semester

Fee: \$16.00

Prerequisites: Students must have an A or B average in 8th grade Language Arts and the recommendation from a Language Arts faculty member

Students in English 9H will be expected to meet the goals for the 9th grade curriculum and the sophomore level composition course. Because this is an accelerated course, students will be expected to read literature that is more challenging and to work independently. The course also incorporates assignments where analytical written and oral responses are required. Students will be eligible based on their scores from a prequalifying exam and a teacher recommendation. Students who plan to take future honors and AP® courses are advised to take English 9 Honors. Summer reading is required. This class meets one period daily.

English 10

2 semesters .50 credit each semester

This course is designed to provide a foundation in the study of the four most common genres in literature: the short story, poetry, drama and the novel. This is also a writing course designed to teach various kinds of paragraph and multi-paragraph writing, including compositions supported by reasons, comparisons and contrasts, examples, and descriptive details. Grammar, punctuation and vocabulary are included. Students must purchase additional materials. This class meets one period daily.

LANGUAGE ARTS

English 10 Honors

2 semesters .50 credit each semester

Prerequisites: English 9 Honors with an A or B average or the recommendation from an English faculty member.

English 10 Honors is offered to sophomores who have successfully completed English 9H or who have received a recommendation from their English 9 teacher. This rigorous course incorporates selections and assignments where analytical written and oral responses are required. Besides class coursework, students may be expected to complete assignments associated with independent reading selections. A review of grammar and vocabulary is also included in this course. Summer reading is recommended. Students will also be required to purchase additional materials. This class meets one period daily.

Introduction to Broadcast Journalism (9, 10, 11, 12)

1 semester .50 credit

This course offers students the chance to shoot and edit videos using DaVinci Resolve, write scripts for broadcast, produce stories, and learn every behind-the-scenes job in the TV production process. Student work will be viewed by our school and posted on social media including the Anchor News Now! Twitter and YouTube accounts. Outside of class footage and script-writing will be assigned throughout the semester. Students who take the Intro class will then have the opportunity to audition for a spot in the Anchor News Now! Live Production class.

Journalism (11, 12)

1 semester .50 credit

This course is designed for students interested in newspaper and magazine writing. News stories, features, editorials, columns, visual projects, and oral presentations are some of the types of work produced in this course. This class meets one period daily.

Journalism – Hybrid Course Description

Journalism, the hybrid course, will complete the same curriculum as Journalism that meets every day, while offering students the flexibility of late arrival or early release three times per week. One day of in-person instruction would be spent delivering the instruction necessary for students to understand the expectations of the assignments. Instruction on the other in-person day would consist of analysis of successful sample writings and the offering of additional instruction regarding that lesson. On the three flexible days, students will not be required to attend in person, but the instructor will be available to provide them the opportunity to receive one-on-one writing support and feedback when needed either in person or remotely through Google Classroom.

The curriculum of the course – which includes lessons in media literacy, newswriting, spotlight feature writing, news feature writing, editorial writing, the editorial cartoon, three reviews, and eight blogs on a topic selected by the student (and agreed to by the instructor) – will remain the same. Other appropriate assignments may accompany any of these assignments if the instructor deems it necessary. The students will have the flexibility to produce much of the content of the course on their own time.

The class will meet two days in-person and three days will be online and/or in-person conferencing.

Language Arts Skills (11, 12)

1 semester .50 credit

This course is designed for students whose main educational focus is on career readiness. The focus of this course is developing practical skills in vocabulary acquisition, reading, and writing. Students will read and respond to literature and informational text in writing and through multimedia presentations. This course differs from College Composition in its pace and the choice of reading selections. This class meets one period daily.

LANGUAGE ARTS

Public Speaking (10, 11, 12)

1 semester .50 credit

The overall goal of Public Speaking is to prepare students, even those who have a fear of public speaking, to confidently deliver various speeches in front of an audience of their peers. Students should eventually find their own unique, poised, and self-confident public speaking voice. Class work includes instruction in the following: speech composition, incorporating technology, using researched facts, nonverbal communication, voice, listening skills, and parliamentary procedure (proper behavior) methods. This class meets one period daily.

Reading and Literature (11, 12)

1 semester .50 credit

This course is designed for students whose main educational focus is on career readiness. This literature course differs from American Literature and British Literature in its pace and the choice of reading selections. Students will focus on improving their functional reading skills through reading both literary and informational texts. Students may be required to purchase a novel for study. This class meets one period daily.

Studies in the Novel (11, 12)

1 semester .50 credit

This literature course is offered to students who are interested in learning about literature through the study of the novel. Students will improve their ability to evaluate, analyze and write about fiction. Students will be expected to purchase several novels for the course and will need to be able to work independently and with others. This class meets one period daily.

LCCC CC+ ENGL 161 (9, 10, 11, 12)

1 semester 1 credit and 3 credit hours from LCCC

Prerequisite: CC+ standards

This course is an introduction to the fundamental college-level skills in academic reading and writing that students will be expected to possess for success in post-secondary education. Summary, analysis, synthesis, and research documentation are emphasized, along with critical thinking and collaborative learning. Composition assignments will be based on textbook readings and an instructor-selected literary work. Students are expected to have prior knowledge of the research process, including paper formatting, use of databases, use of scholarly sources, and the synthesis of secondary sources into their own writing. Students who successfully complete the course will receive three (3) LCCC credit hours. This class meets one period daily.

LCCC CC+ ENGL 162 (9, 10, 11, 12)

1 semester 1 credit and 3 credit hours from LCCC

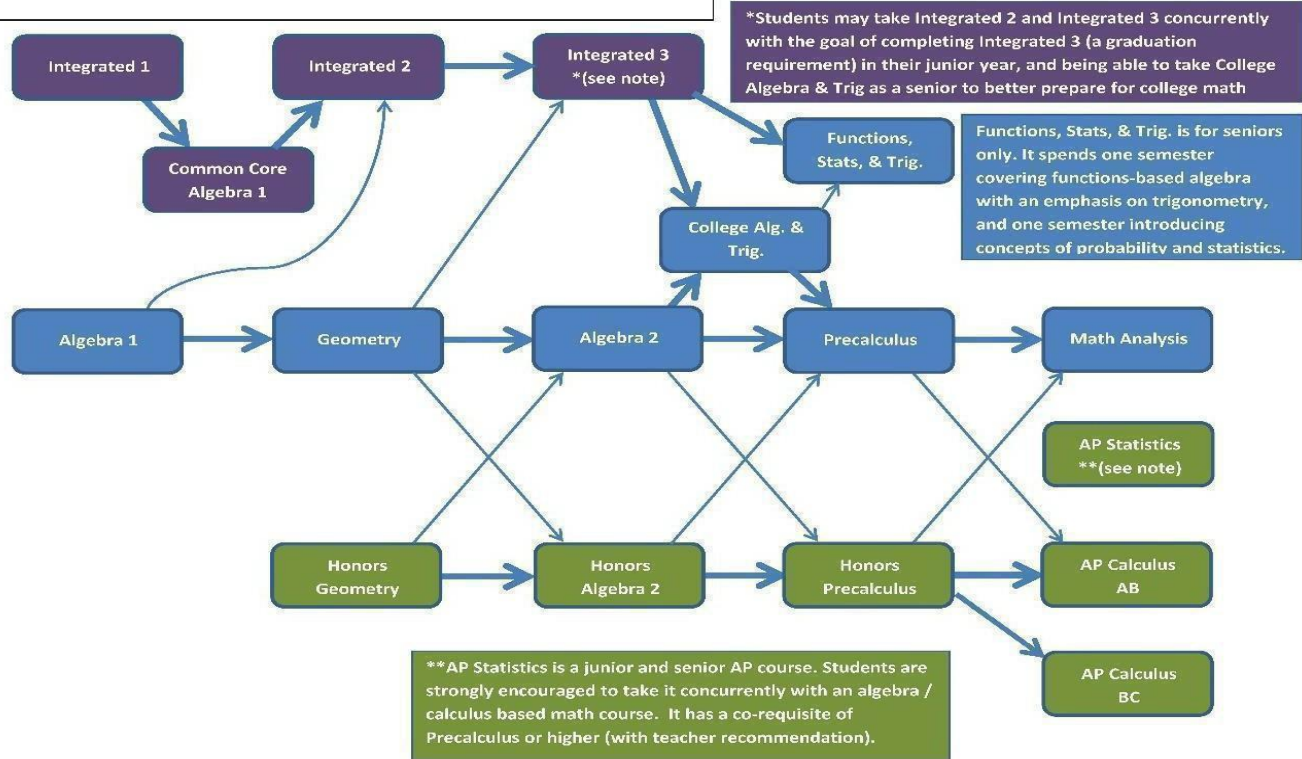
Prerequisites: CC+ standards and English 161

This course is a continuation of the skills introduced in English 161, as well as a focus on strategies of argumentation and reasoning. Papers assigned in this course will include a literary analysis and a research paper. This class meets one period daily.

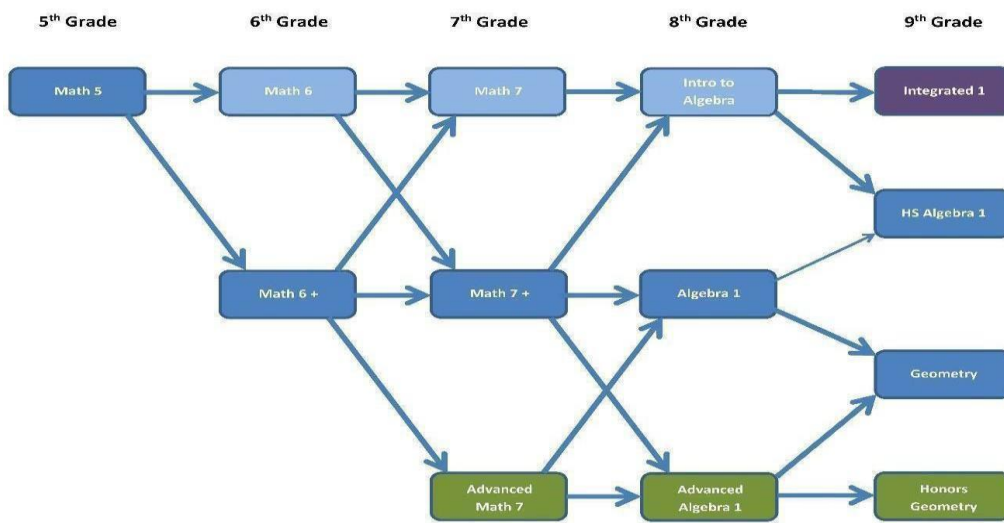
MATH

Freshmen in high school begin in Integrated 1, Algebra 1, Geometry, or Honors Geometry, depending on their courses and performance in junior high math.

HIGH SCHOOL MATH COURSES



Math Course Pathways — 5th through 8th grades



MATH

AP® Calculus (AB) (11, 12)

2 semesters .50 credit each semester

Fee: AP® Exam \$97.00

Prerequisites: Pre-Calculus or Pre-Calculus Honors and permission of the instructor.

This college level course consists of the differential and integral calculus of functions of a single variable and plane analytic geometry; this will include a study of the concepts of limit, derivative, and integration. A goal of this course is to prepare the student for the AP® Calculus (AB) test. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

AP® Calculus (BC) (11, 12)

2 semesters .50 credit each semester

FEE: AP® Exam \$97.00

Prerequisites: Pre-Calculus or Pre-Calculus Honors and permission of the instructor.

Calculus (BC) is a full year college course in the calculus of functions of a single variable. The content of Calculus (BC) is designed to qualify the student for placement and credit in a course that is one course beyond that granted for Calculus (AB). It is comparable to two full semesters of a college calculus sequence. The accelerated pace of Calculus (BC) makes it more challenging than Calculus (AB). A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

AP® Statistics (11, 12)

2 semesters .50 credit each semester

FEE: AP® Exam \$97.00

Prerequisites: Algebra II or Algebra II Honors and permission of the instructor. Co-requisites: In order to be fully prepared for college, it is highly recommended this course is taken in conjunction with one of the following courses: Pre-Calculus, Math Analysis or AP® Calculus.

AP® Statistics is an elective mathematics course designed to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. A goal of this course is to prepare the student for the AP® Statistics test. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Algebra I (9, 10, 11, 12)

2 semesters .50 credit each semester

Prerequisite: A student should have at least a “C” average or better in previous math course(s).

Algebra I is an entry level course for freshmen. Emphasis is given to solving equations and inequalities, factoring, exponents, and graphing. Geometry, probability, and statistics are used as setting for an algebraic application. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Algebra II (10, 11, 12)

2 semesters .50 credit each semester

Prerequisites: One year of algebra and geometry with a “C” average or upon recommendation of an instructor.

This course advances through the study of radicals, exponents, and quadratic functions. Advanced topics include exponential functions, sequences and series, and trigonometry. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

MATH

Algebra II Honors (9, 10)

2 semesters .50 credit each semester

Prerequisite: Geometry Honors or recommendation of instructor.

This course is designed to give students insight into the nature of mathematical thought as well as to prepare them to perform manipulations with facility. Included in the text are chapters devoted to complex numbers, logarithms and modeling written with a more rigorous approach than usually appears at this level. The material emphasizes the structure of mathematics in its approach. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

College Algebra and Trigonometry (11, 12)

2 semesters .50 credit each semester

Prerequisite: A student should have at least a “C” average or better in previous math course(s).

This course differs from Pre-Calculus in that fewer objectives and applications are required. Trigonometry will be stressed. College Algebra and Trigonometry integrates algebraic concepts and to some extent previews Calculus through work with functions and intuitive limits. A graphing calculator (TI-83 or TI-84 is required, approximate cost: \$100-\$110). This class meets one period daily.

Common Core Algebra I (10, 11, 12)

2 semesters .50 credit each semester

Prerequisite: Integrated Math I.

In this course emphasis is given to solving equations, factoring, exponents, and graphing. Students will study linear, quadratic and exponential functions. Geometry, probability, and statistics are used as setting for an algebraic application. Real life applications and modeling will be stressed throughout the course. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Functions, Statistics and Trigonometry(12)

2 semesters .50 credit each semester

Prerequisite: A student should have passed an Algebra 2 (or equivalent) math course(s).

This course differs from College Algebra and Trigonometry in that it focuses only one semester on function based algebra, with the other semester focusing on introductory statistics and probability. Students will demonstrate an understanding of algebraic and rational expressions, linear, quadratic and polynomial equations and exponential and logarithmic functions. Trigonometry will be stressed in addition to an introductory study of statistics. A graphing calculator (TI- 83 or TI-84 is required, approximate cost: \$100-\$110). This class meets one period daily.

Gamified Math Honors (10, 11, 12)

1 semester .50 credit

Co-requisite: Algebra II Honors and teacher recommendation.

This course is designed to expose students to various math topics beyond or outside of the normal scope of the high school math curriculum. Topics include set theory, sequences, series, combinatorics, probability, non- Euclidean geometry, and geometry in dimensions beyond 3. These topics will be explored through games and projects, as well as through student research and independent and collaborative learning. This is a hybrid course, and as such will combine in-person class meetings with project / research time. While less formal than the traditional ALHS math course, the content and rigor level will be very challenging. Projects and papers will be a significant part of this course. This class requires students to meet for class or collaborative work one period each day.

MATH

Geometry(9, 10, 11, 12)

2 semesters .50 credit each semester

This course serves to combine plane, solid, and coordinate geometry into a modern one-unit course. The approach stresses the structure of mathematics showing logical development from definitions and postulates to theorems. Geometry and algebraic skills are integrated thereby showing the interrelationship of two (2) subjects. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). Recommended for students who attained a “C” average or above in Algebra I. This class meets one period daily.

Geometry Honors (9, 10)

2 semesters .50 credit each semester

Prerequisite: Advanced Algebra I or the recommendation of the instructor.

This course is designed to help the student to understand geometry as a deductive system, develop the ability to visualize plane and spatial figures, and understand relationships of number, points, line, planes, and three dimensional figures. Students must be able to develop the ability to think creatively and develop the ability to use an analytical approach to geometric relationships. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Integrated Math I (9, 10, 11, 12)

2 semesters .50 credit each semester

This course is designed primarily for those students not prepared to meet the challenge of Algebra I. It differs from Algebra I in its pace and fewer applications. Probability and statistics will be incorporated into the curriculum. A scientific calculator is required for this course. This class meets one period daily.

Integrated Math II (9, 10, 11, 12)

2 semesters .50 credit each semester

Prerequisites: Integrated Math I or Algebra I.

This course differs from Geometry, in that fewer objectives and applications are required. Also, time will be given to enhance Common Core Algebra I topics. Coordinates, transformations, area formulas and three-dimensional figures will be stressed. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Integrated Math III (10, 11, 12)

2 semesters .50 credit each semester

Prerequisites: Integrated Math II or Geometry.

This course differs from Algebra II in that fewer objectives and applications are required. Linear, quadratic, logarithmic, and polynomial functions will be used to solve equations and as tools for real world situations. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Introduction to Cryptography(10, 11, 12)

1 semester .50 credit

Co-requisite: Algebra II and teacher recommendation.

This course can be taken either as a regular course or as an honors course - the honors credit will have more student work required, projects and assessments will be more rigorous for honors students. This course will take students through the history of encoding and decoding messages with a focus on the mathematical techniques involved on both ends. Students will work together to come up with systems for breaking certain types of codes. Students will research and write about various encryption techniques and their strengths and weaknesses. Students will learn about and debate the characteristics of a good encryption technique. As part of this, students will be exposed to combinatorics, probability, introductory coding, modular arithmetic, and matrices. Projects and papers will be a significant part of this course. This class requires students to meet for class or collaborative work one period each day.

MATH

Math Analysis (12)

2 semesters .50 credit each semester

Prerequisite: Pre-Calculus and recommendation of the instructor.

Math Analysis is a senior math course devoted to discrete math, elementary probability, and an introduction to Calculus with applications to business and life sciences. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Pre-Calculus (11, 12)

2 semesters .50 credit each semester

Prerequisite: Algebra II or College Algebra with teacher recommendation.

This course is to prepare students for college level mathematics. The course begins with a review of the number system and the graphs of simple functions. Emphasis is placed upon trigonometric analysis by verifying identities and solving equations. Logarithms, rational functions and inverse functions are included in the study. This course further develops the fundamentals of algebra, coordinate geometry and other topics in an effort to bridge the mathematics and the beginning college courses. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

Pre-Calculus Honors (11, 12)

2 semesters .50 credit each semester

Prerequisite: Algebra II Honors or recommendation of instructor.

This course is designed to present certain integrated topics in algebra and trigonometry at a more advanced level than that offered in the regular program. The central theme is a study of functions: polynomial, exponential, logarithmic and trigonometric functions with emphasis on practical applications wherever possible. Paralleling the freshman level courses offered at many colleges, it is designed to challenge the scholastically capable as well as to furnish an intuitive background for a later course in calculus. An introduction to limit concept and derivative will be covered throughout the year. A graphing calculator is required (TI-83 or TI-84, approximate cost: \$100-\$110). This class meets one period daily.

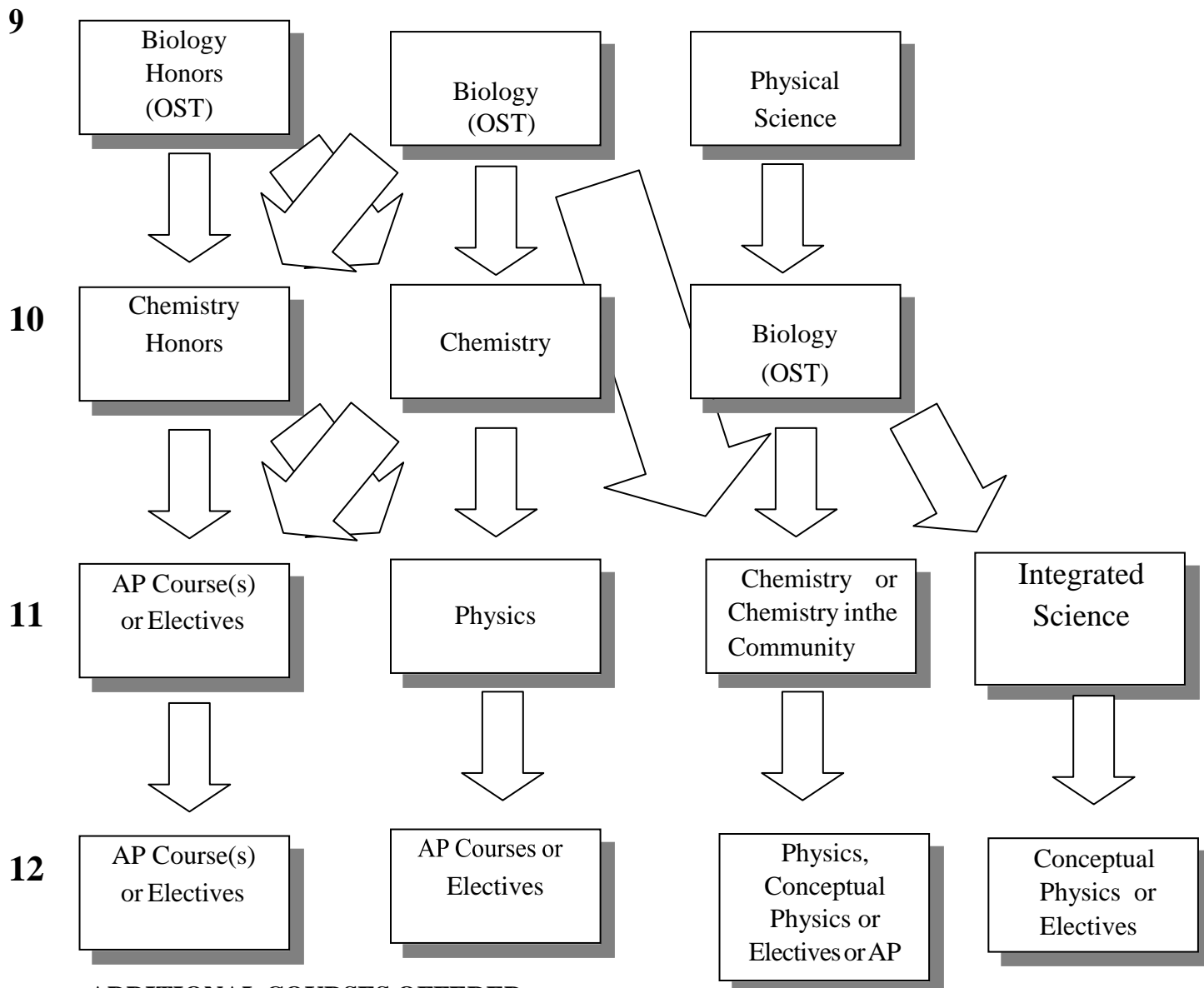
Financial Literacy (9)

1 semester .50 credit

This course introduces students to real-world concepts related to personal finance and money management. More specifically, it examines financial matters such as saving, investing, student loans, debt repayment, credit cards, risk management, and budgeting. Students engage in hands-on scenarios in which they will learn to prepare for, overcome, and avoid financial crises. Based on the skills and knowledge applied in this course, students will develop financial goals, and create realistic and measurable objectives to be financially literate and money smart.

SCIENCE

SCIENCE FLOWCHART



ADDITIONAL COURSES OFFERED:

<u>ALHS Electives</u> Astronomy Biotechnology Environmental Studies	<u>ALHS/LCCC Electives</u> Anatomy & Physiology (11, 12) Earth Science (9, 10, 11, 12)	<u>AP Electives</u> <u>(11, 12)</u> AP Biology AP Chemistry AP Physics 1 and 2 AP Physics C (12) AP Environmental
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SCIENCE

AP® Biology (11, 12)

2 semesters .50 credit each semester

Fee: \$25.00 plus AP® Exam \$97.00

Prerequisites: Regular or Honors Biology, and Chemistry or concurrent with Chemistry, and recommendation of science staff.

This program provides an opportunity for high school students to pursue and receive credit for college level Biology coursework while in high school. In order to give the students this opportunity, the course is designed to meet the expectations set forth by the AP® Biology Course Description and the AP® Biology Learning Objectives which can be found at www.apcentral.collegeboard.com. The AP® Biology course is designed to provide a comprehensive first-year college biology experience, both conceptually and in the laboratory. The three main areas of study are molecules and cells (chemistry, cells, and cell energetics), heredity and evolution (heredity, evolution, and molecular genetics), and organisms and populations (diversity, structure, and function of plants and animals, and ecology). Emphasis is placed on problem solving and critical thinking skills. Students are required to take the AP® Biology exam. This class meets eight periods per week.

AP® Chemistry (11, 12)

2 semesters .50 credit each semester

Fee: \$40.00 plus AP® Exam \$97.00

Prerequisites: Biology and Chemistry (regular or honors) with a final chemistry grade of “A” or “B” and recommendation of a chemistry teacher. Concurrent enrollment in Pre- calculus or Calculus is recommended. This program provides an opportunity for high school students to pursue and receive credit for college level Chemistry course work while in high school. In order to give the students this opportunity, the course is designed to meet the expectations set forth by the AP® Chemistry course description and the AP® Chemistry Learning Objectives which can be found at www.apcentral.collegeboard.com. The AP® Chemistry course is designed to provide a comprehensive first-year college chemistry experience, both in lecture and in the laboratory. Topics studied include molar relationships, periodicity, atomic theory, bonding, geometry, as laws, chemical kinetics, equilibrium, thermodynamics, redox reactions, buffer systems, coordination complexes, and organic chemistry. Emphasis is placed on problem solving and critical thinking skills. Students are required to take the AP® Chemistry exam. This class meets eight periods per week.

SCIENCE

AP[®] Environmental Science (11, 12)

FEE: \$30.00 plus AP[®] Exam \$97.00

2 semesters .50 credit each semester

Prerequisites: Regular or Honors Biology, and Chemistry or concurrent with Chemistry, and recommendation of science staff.

This program provides an opportunity for high school students to pursue and receive credit for college level Environmental course work while in high school. In order to give the students this opportunity, the course is designed to meet the expectations set forth by the AP[®] Environmental Course Description and the AP[®] Environmental Learning Objectives which can be found at www.apcentral.collegeboard.com. The AP[®] Environmental Science course is the equivalent of a one-semester, introductory college course in environmental science, through which students engage with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental Science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Students are required to take the AP[®] Environmental Science exam. This class meets eight periods per week.

AP[®] Physics I and II (11, 12)

Fee: \$20.00 plus AP[®] Exams \$194.00

2 semesters 1.0 credit each semester

Prerequisites: Honors Chemistry or Regular Physics and staff recommendation. Concurrent enrollment in Pre-calculus, Math Analysis or AP[®] Calculus is recommended.

This program provides an opportunity for high school students to pursue and receive credit for college level physics coursework while in high school. In order to give the students this opportunity, the course is designed to meet the expectations set forth by the AP[®] Physics I and Course Description and the AP[®] Physics Learning Objectives which can be found at www.apcentral.collegeboard.com. Topics covered include Newtonian Mechanics, Electricity and Magnetism, Waves and Optics, Thermodynamics, Fluid Mechanics and Atomic and Nuclear Physics. Students are required to take the AP[®] Physics 1 and 2 exams. This class meets for ten periods per week for 1 unit of credit each semester.

AP[®] Physics C (12)

FEE: \$20.00 plus AP[®] Exams \$194.00

2 semesters .50 credit each semester

Prerequisites: AP[®] Physics 1 & 2 and staff recommendation. Concurrent enrollment in AP[®] Calculus is required.

This program provides an opportunity for high school students to pursue and receive credit for two college level physics courses while in high school. In order to give the students this opportunity, the course is designed to meet the expectations set forth by the AP[®] Physics C Course Description and the AP[®] Physics Learning Objectives which can be found at www.apcentral.collegeboard.com. Topics covered include Newtonian Mechanics and Electricity and Magnetism. Students are required to take both the AP[®] Physics C Newtonian Mechanics exam and the AP[®] Physics C Electricity and Magnetism exam. This class meets for eight periods per week for ½ unit of credit each semester.

SCIENCE

Astronomy (10, 11, 12)

1 semester .50 credit

Prerequisites: Completed 1 year of Geometry with a C or better.

This course is a one-semester course designed to be an introductory study of astronomy. During the course, extensive use is made of the planetarium facility. Topics covered include the stars, sun, moon, and planets as well as the motions of these bodies as viewed from the earth. The composition and “life histories” of these bodies and others as well as of the universe as a whole is also studied. The student is responsible for having a small flashlight. This class meets one period daily.

Biology (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$30.00

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. The topics include Scientific Inquiry, Heredity, Evolution, Cells and Diversity and Interdependence of Life. The course uses a laboratory approach to help students understand the topics presented in class. Oral and written reports may be required. Not recommended for students who achieved less than a “B” in 8th grade science. The student is responsible for having a notebook. **Dissecting various organs and organisms is required.** All students in this class will be required to take the State Test in Biology. This class meets seven periods per week.

Biology Honors (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$30.00

Prerequisites: Students will be recommended by their 8th grade science teacher and should have successfully completed Algebra I as an 8th grader. Students enrolled in Biology Honors 9 should have the following: a) “B” or better average in 8th grade science and b) 3.00 average in Algebra I.

This course investigates the composition, diversity, complexity and interconnectedness of life on Earth. Fundamental concepts of heredity and evolution provide a framework through inquiry-based instruction to explore the living world, the physical environment and the interactions within and between them. The topics include Scientific Inquiry, Heredity, Evolution, Cells and Diversity and Interdependence of Life. The course uses a laboratory approach to help the student understand the areas presented in class. Additional work done out of the classroom including reports and projects during the school year and assigned summer reading is required. The student is responsible for having a notebook. Dissecting various organs and organisms is required. All students in this class will be required to take the State Test in Biology. This class meets seven periods per week for ½ unit of credit each semester.

Biotechnology DNA(Science) (11, 12)

1 semester .50 credit

Fee: \$25.00

Prerequisites: Biology, Chemistry or currently taking Chemistry and recommendation of the science department.

This course examines the following areas of DNA Science: The history and development of DNA structure and function, mutations of DNA and their effects will be studied as well, the cell cycle and cancer, genetically modified organisms and forensics. Laboratory experiments and demonstrations are used to illustrate these topics. Current event articles will also be required. This class meets one period daily.

SCIENCE

Chemistry (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Prerequisites: Algebra I and Biology, with at least an earned grade of “C” recommended.

A conceptual course of science involving course work and laboratory work designed to present chemistry in the light of modern theory. Chemistry includes the study of the composition of matter and its changes, the organization of the elements, and chemical calculations. The student is responsible for having a composition notebook for class notes, a composition notebook with graph paper for lab and a scientific calculator. This class meets seven periods per week.

Chemistry Honors (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$35.00

Prerequisites: Biology or Honors Biology, concurrent enrollment in Algebra II and staff recommendation. After Biology in preparation for Honors Chemistry, there is summer work assigned.

This course is a systematic, conceptual study of chemistry that challenges the student to develop an understanding of modern theories and laws of chemistry using a modeling curriculum. An inquiry approach is used and problem solving skills are integral to this course. In many cases, quantitative arguments are used to develop these laws and theories. The laboratory work is designed to guide the concepts-an inquiry approach is used. The use of google sheets and PASCO is used for data acquisition and manipulation. The student is responsible for having a scientific calculator. This class meets seven periods per week for ½ unit of credit each semester.

Chemistry in the Community (10, 11, 12)

2 semesters .50 credit each semester

Fee: \$25.00

Prerequisites: Biology or Physical Science

This descriptive course is designed to provide an understanding of the basic principles of chemistry. The course is taught thematically with themes including Water: Exploring Solutions, Materials: Structure and Uses, Food: Matter and Energy For Life and Fuel sources: Global Warming and Solar Power. Experimentation is part of this course. The student is responsible for a class notebook. This class meets one period daily.

Conceptual Physics (11, 12)

2 semesters .50 credit each semester

Prerequisites: A “C” or better average in Algebra and Geometry is recommended for students enrolling in this course.

Physics is the fundamental science of the natural world. This course involves study, extensive laboratory work, problem solving, and demonstrations in the areas of measurements, kinematics, dynamics, vectors, work and energy, waves and electricity. Less emphasis is placed on mathematics in this course than in more traditional physics courses. Instead more emphasis is placed on developing a deep understanding of the concepts and principles of physics. The student is responsible for having a class notebook and a calculator. This class meets one period daily.

SCIENCE

Environmental Studies (11, 12)

1 semester .50 credit

Prerequisites: Biology, Chemistry or currently taking Chemistry and recommendation from the science department.

Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real- world applications. This class meets one period daily for ½ unit of credit.

Blended Environmental Studies (11, 12)

1 semester .50 credit

Prerequisites: Biology, Chemistry or currently taking Chemistry and recommendation from the science department.

Environmental science incorporates biology, chemistry, physics and physical geology and introduces students to key concepts, principles and theories within environmental science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills and real- world applications. Students will be expected to work on group projects outside of the class meeting time. The L.A.K.E. will be available for group collaboration and projects. This class meets one period per week or as scheduled by an instructor. A majority of this coursework will be completed online.

Integrated Science (11, 12)

2 semesters .50 credit each semester

Prerequisites: Physical Science, Life Science, Integrated Math I and staff recommendation.

The integrated science course combines scientific principles with real world applications. It is called “integrated” science because students study biology, chemistry, and physics. Emphasis in class discussions and lab activities is placed on how the concepts being studied are visible in our world, and how we must use science to sustain our activities. The student is responsible for having a notebook. This class meets one period daily for ½ unit of credit each semester.

Physical Science (9, 10, 11, 12)

2 semesters .50 credit each semester

Fee: \$20.00

Physical science introduces students to key concepts and theories that provide a foundation for further study in other sciences and advanced science disciplines. Physical science comprises the systematic study of fundamental concepts of science and data along with matter and its interactions in the physical world. After a foundation has been established with matter, this leads into exploration of biochemistry and additional life science topics. Laboratory activities, investigations and simulations are an essential part of the curriculum. The student is responsible for having a class notebook. This class meets five periods per week for ½ unit of credit each semester.

SCIENCE

Physics (11, 12)

2 semesters .50 credit each semester

Fee: \$10.00

Physics is the fundamental science of the natural world. This course involves study, extensive laboratory work, problem solving and demonstrations in the area of measurements, kinematics, dynamics, vectors, work and energy, waves, and electricity. With respect to Conceptual Physics, students will cover a greater variety of topics in greater depth, and greater emphasis will be placed on the mathematical treatment of the physical relationships in the universe. This course is recommended for students who plan to attend college. Concurrent enrollment in pre-calculus is recommended. Students are also admitted to the course with teacher recommendation, enrollment in Algebra II, and a minimum of a C average in current math classes. The student is responsible for having a scientific calculator. This class meets seven periods per week for ½ unit of credit each semester.

LCCC CC+ BIOG 121 (11, 12)

1 semester 1 credit and 4 credit hours from LCCC

Prerequisites: CC+ standards. All prospective students must have completed Biology or Biology Honors and Chemistry or Chemistry Honors and must also obtain a recommendation from their previous science teacher.

Anatomy and physiology builds on the foundation of biological science established in the current biology course. Cell biology is covered in more depth and extended to include an understanding of histology. The course also offers an in depth study of human organ systems including integumentary, skeletal, muscular, nervous (including a study of the senses) and endocrine. The laboratory portion of the course is designed to reinforce the concepts presented in lecture. A variety of preserved specimens will be used for dissection; dissection is required. This is a college level course; students are required to enroll at LCCC and will receive college credit. Students will participate in a field trip to LCCC's Biology Laboratory at the end of the semester to view cadavers. This course includes an online lecture requirement, some of this will have to be done on your own time and some will be done in class. This class meets 8 periods per week for 1 unit of credit each semester.

LCCC CC+ BIOG 122 (11, 12)

1 semester 1 credit and 4 credit hours from LCCC

Prerequisites: CC+ standards. Grade of "C" or better in BIOG 121.

Anatomy and physiology builds on the foundation of biological science established in the current biology course. This course is a continuation of Anatomy & Physiology I. The structure and function of the following human organ systems are examined: reproductive (including embryology and fetal development), digestive, cardiovascular, lymphatic (including immunity), respiratory, and urinary (including fluid/electrolyte and acid/base balance). Cadaver based laboratory required. The laboratory portion of the course is designed to reinforce the concepts presented in lecture. A variety of preserved specimens will be used for dissection; dissection is required. Students will participate in a field trip to LCCC's Biology Laboratory at the end of the semester to view cadavers. This is a college level course; students are required to enroll at LCCC and will receive college credit. This course includes an online lecture requirement, some of this will have to be done on your own time and some will be done in class. This class meets 8 periods per week for 1 unit of credit each semester.

SCIENCE

LCCC CC+ PSSC 161 (9,10, 11, 12)

1 semester 1 credit and 3 credit hours from LCCC

Prerequisites: CC+ standards. Enrollment in Astronomy either before or after the class is suggested, but not required.

The Earth Science course is designed as a semester-long introduction to geology and dynamic Earth interactions. The course is designed as an introductory college Earth Science class. Students will be required to enroll at LCCC and will receive college credit. Focus will be placed on identification of minerals, rock types, rock deposition, plate tectonics, volcanism, weathering, glaciations, and geologic time. The unique geologic features of Northern Ohio will be used as examples. This class meets one period daily for one 1 unit of credit.

SOCIAL STUDIES

Abnormal Psychology Honors (12)

1 semester .50 credit

Prerequisite: Successful completion of AP® Psychology with a score of 3 or higher on the AP® Psychology exam.

An exploration of the manifestations and treatments of psychological disorders on a continuum of functional to dysfunctional. Topics include: types, assessment, therapies, and prevention of abnormal behaviors. This class meets one period daily. It is a semester course.

American Government (11)

2 semesters .50 credit each semester

***Required For Graduation.**

This course is designed to enable students to participate and understand current events as they relate to the problems that various levels of government face. The students will use knowledge of the purposes, structures, and processes of political systems at the local, state, national and international levels to understand that people create systems of government as structures of power and authority to provide order, maintain stability and promote the general welfare. The students will also use knowledge of the rights and responsibilities of citizenship in order to examine and evaluate civic ideas. This class meets one period daily.

American History I and II (10, 11, 12)

2 semesters .50 credit each semester

***Required For Graduation.**

This course is designed to develop an appreciation for the great heritage that is ours as Americans. It is a survey course. The major emphasis is from the Spanish American War to the present. Students will explore issues and events that will shape and propel American culture, politics, economic growth and military power as we move into the future. This class meets one period daily for each semester.

AP® Economics (11, 12)

2 semesters .50 credit each semester

Fee: AP® Exams \$194.00

Prerequisite: Recommendation by a social studies teacher and department approval.

This course is equivalent to introductory college-level macroeconomics and microeconomics courses. Throughout the course, students will study the principles of Economics that apply to the functions of decision makers, both consumers and producers, within the economic system. In the first half of the course, areas of concentration will include the national economy, fiscal (government) policy and its effects, monetary (banks) policies and their effects, and international trade. The second half of the course will transition to the roles of consumers, businesses, and the government within our economy and the different types of markets in which businesses compete. A high level of proficiency in math is not required. Students are required to take the AP® Macroeconomics and AP® Microeconomics exams in May (two separate exams). This class meets one period daily for each semester.

SOCIAL STUDIES

AP® Psychology (11, 12) **AP® Exam \$97.00**

2 semesters .50 credit each semester

Prerequisite: Junior or senior status. An “A” semester grade in the Social Studies course the student is taking at the time of recommendation day, a “B” grade or better semester grade in AP® U.S. History, or an “A” grade in regular Psychology, along with teacher recommendation and department approval for both.

This course is designed to introduce students to the systematic and scientific study of behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. Students will also learn about the methods psychologists use in their science and practice. Students are required to take the AP® Psychology exam in May. This class meets one period daily.

AP® U.S. Government and Politics (11, 12) **Fee: AP® Exam \$97.00**

2 semesters .50 credit each semester

Prerequisites: An “A” semester grade in regular American History or a “B” or better semester grade in AP® U.S. History, along with teacher recommendation and department approval for both.

This course will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret US politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs and ideas that constitute US politics. It is designed to provide a comprehensive first year college experience in the area of US government and politics. This is a two semester course and would be taken to meet the Government graduation requirement. This course contains a unit on financial literacy. This class meets one period daily each semester.

AP® U.S. History (10, 11, 12) **Fee: AP® Exam \$97.00**

2 semesters .50 credit each semester

Prerequisite: An “A” semester grade in regular World History or a “B” or better semester grade in World History Honors, along with teacher recommendation and department approval for both.

Advanced Placement U.S. History is a two (2) semester course and may be taken to meet the graduation requirement and in lieu of the regular American History course. It is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with events and issues from American History. This program prepares students for college courses by making demands upon them equivalent to those of a full year introductory college course. STUDENTS SHOULD BE WELL ABOVE AVERAGE IN READING AND WRITING ABILITIES. It is possible to earn college credit by taking a College Board examination in May for which a separate fee is charged. Students interested in AP® U.S. History will be making a serious commitment and should consult the guidance department or course instructor before scheduling. Students are required to take the AP® U.S. History exam in May. This class meets one period daily each semester.

SOCIAL STUDIES

Contemporary Social Issues (11, 12)

1 semester .50 credit

This course is designed to explore social issues facing young people in contemporary society. Students will examine the United States' crime problem, its extent, causes, and possible solutions and punishments. Students will evaluate the reliability and credibility of sources, use data and evidence to support or refute a thesis. They will analyze the evolution of the Constitution through Post-Reconstruction Amendments and Supreme Court decisions. Students will explain how individual rights are relative, not absolute, and describe the balance between individual rights, the rights of others, and the common good. Use of historical interpretations to explain current issues will be explored as well as using appropriate data sources and tools to analyze and evaluate public policy. Students will evaluate various means for citizens to take action on a particular issue and will explain how exercising one's rights and responsibilities help to strengthen a democracy. Students will obtain and evaluate information from public records and other resources related to a public policy issue and critique data and information to determine adequacy of support for conclusions. Students will work in groups to analyze an issue and make decisions as well as explore methods as members of their school and community. This class meets one period daily.

Economics (10, 11, 12)

1 semester .50 credit

This course will enable students to develop an understanding of the economic aspects of our society. It will include major topics such as the stock market, labor issues, employment and unemployment, monopolies, competition, taxes, production, income and foreign trade. This course makes many references to the role of government in the economy as well as to the history of our capitalistic economy. It also deals with economic implications on the business world, and financial literacy. Contemporary issues that will enable students to meet their responsibilities as citizens and participate in the economy will be discussed. The course will also involve important social issues, which constantly affect our changing economy. This class meets one period daily.

Psychology: Understanding Human Behavior (10, 11, 12)

1 semester .50 credit

Psychology is a science that studies individual human behavior. Areas covered include the workings of the brain, sleep and dreams, learning, personality theories, stress, psychological disorders, individual interaction, attitudes and social influence, and careers in psychology. This class meets one period daily.

Sociology: The Study of Human Relationships (10, 11, 12)

1 semester .50 credit

Sociology is a science that studies human society and social behavior. Areas covered include the American value system, types of societies, agents of socialization, the adolescent in society, deviance and social control, gender, age and health issues, the family, population, urbanization, and modernization. This class meets one period daily.

World Affairs (9, 10, 11, 12)

1 semester .50 credit

World Affairs focuses on issues facing the different regions of the world today. The effectiveness of international governmental organizations such as the United Nations, the European Union, the Organization of American States and the World Court will be evaluated. Primary materials will be the Internet, newspaper and magazine articles of general circulation in addition to publications that have a focus on foreign policy and world issues. Individual research and oral presentations will be stressed. Those interested in a career in Foreign Service, law or political science should consider this class. This class meets one period daily.

SOCIAL STUDIES

World Geography (9, 10, 11, 12)

1 semester .50 credit

World Geography relates geography to the historical, social, economic and political activities of world cultures. Geography involves location, place, regions, movement and interaction with our environment. Students will add to their knowledge of world geography by applying factual data to events in today's rapidly changing community. Students will interpret data, work with mapping techniques, read diverse scholarly publications and make thoughtful comparisons. Issues studied in this course include global population growth, urbanization and city planning, climate, natural disaster scenarios such as hurricanes, tornadoes and earthquakes. World Geography meets the current state standards for social studies. This class meets one period daily.

World History I and II (9, 10, 11, 12)

2 semesters .50 credit each semester

***Required for Graduation**

In this course, students will study the history of the world from the Scientific Revolution (1500s) to the present. In doing so, they will address essential questions that will help them better understand the nature of power in the making of the modern world; and how these power dynamics have expanded opportunities, but often at great cost. Students will also seek to understand the impact of humans on revolutions, wars, political ideologies, and policy decisions along with the legacies these decisions continue to leave on our world. Most importantly, as a result of this class, students will become more skilled at thinking historically. They will question sources, connect them to others, make inferences, consider other perspectives, and recognize that there are limits to our own abilities to understand why people made decisions in the past. This class meets one period daily for ½ unit of credit each semester.

World History Honors (9)

2 semesters .50 credit each semester

Prerequisite: Placement will be dependent upon recommendation by 8th grade faculty

This course is a survey course of world history from the Scientific Revolution and the Enlightenment through the present. It is for the highly motivated student who is willing to accept the challenge and in-depth nature of the course. It requires above average reading and comprehension skills, as well as above average writing ability. This course will meet the World History graduation requirement. This class meets for one period daily.

SPECIAL EDUCATION

Individual Education (9, 10, 11, 12)

1 semester and two (2) semester sequences

These programs are designed for students who have difficulty learning in the traditional classroom. Participation in these programs requires an evaluation team report by the appropriate Special Education Team (school psychologist, special education teachers, administrator, guidance counselor, parent, and student). Before a student is placed in the Special Education Program an individualized education plan (IEP) is developed and produced in written form, by the appropriate Special Education Team. Courses offered in the Special Education Program at the Avon Lake High School include:

Grade 9

Adapted/Modified P.E.
Applied Reading & Writing
Communication & Conflict Resolution
English I/II
Foundations of Algebra A
Foundations of Science A/B
Individual Supplement
Processing Life Skills
Social Studies I/II

Grade 10

Adapted/Modified P.E.
Applied Reading & Writing
Communication & Conflict Resolution
English I/II
Foundations of Algebra B
Foundations of Science A/B
Individual Supplement
Processing Life Skills
Social Studies I/II

Grade 11

Adapted/Modified P.E.
Applied Reading & Writing
Communication & Conflict Resolution
English III/IV
Foundations of Geometry
Foundations of Science C
Individual Supplement
Processing Life Skills
Social Studies III

Grade 12

Adapted/Modified P.E.
Applied Reading & Writing
Communication & Conflict Resolution
English III/IV
Foundations of Algebra II
Foundations of Science D
Individual Supplement
Processing Life Skills
Social Studies IV

LORAIN COUNTY JVS

LCJVS COURSE DESCRIPTIONS (CONDENSED)

<https://www.lcjvs.com/district/about-us/about-the-lorain-county-jvs>

BUILDING TRADES ACADEMY

Carpentry - Learn the basics of wood-frame construction including project layout and designs, the use of hand and power tools, blueprint reading, cost estimation, insulation, exterior finishing, and more.

Heating and Air Conditioning – Learn how to layout and fabricate sheet metal ductwork, electrical schematic reading and troubleshooting, residential and commercial installation of heating and repair air conditioning systems, and troubleshooting of commercial refrigeration systems.

Industrial Electricity - Maintain, install, and repair electrical wiring equipment used in residential and industrial settings. Students work with computer programmable controlling and electric motors.

Masonry Trades - Estimate, layout, and construct masonry walls, partitions, fireplaces, chimneys, patios, driveways, and home foundations. Laying brick, block, stone and glass block, as well as the processes of pouring cement and concrete to forms and molds are taught in this program.

Plumbing/Pipefitting - Install and repair plumbing systems in residential and commercial settings. Work-based learning will be emphasized with on-the-job training sites in cooperation with the North Coast Building Industry Association.

BUSINESS AND MARKETING ACADEMY

Digital Media Arts - Learn the fundamental principles and processes of computer-based design using a variety of traditional and non-traditional media with an emphasis on problem-solving and creative exploration. Using such media as high-definition video, sound, animation, installation art, print and digital photography, students work in a digitally integrated computer lab and studio environment to gain hands-on experience. Students apply color theory, visual design and conceptualization to project-based assignments that focus on growing their skill sets and technical abilities, while building a portfolio for post-secondary and internship opportunities.

Marketing and Management - Be involved with advertising sales, promotion, pricing, product development as well as studying business management and entrepreneurship. Learn to conduct business on-line and operate and manage the school store.

Network Communications Technology - Become skilled in creating solutions to technology problems for large companies and individual computer owners. Learn to install and configure network devices such as routers, switches, and wireless components that allow the transfer of information on the network.

LORAIN COUNTY JVS

Office and Administrative Assistant - Be a productive member or manager of an office team. Emphasis is on communication and organizational skills along with using current business software.

Web and Graphic Design - Learn up-to-date techniques, using an online curriculum and hands-on activities to develop, create, and publish web pages, newsletters, magazines, business cards and much more! Use current technology and the latest software to prepare for industry certification exams.

COMMUNITY SERVICE ACADEMY

Allied Health Sciences - Students get a solid foundation to begin health and medical careers. This program integrates rigorous academic preparation with hands-on technical instruction. Students are exposed to a wide variety of careers as they explore roles of many health care related jobs, and are trained and educated to be successful in those careers. They will learn about medical ethics, infection control, safety, body mechanics, nutrition, communication, employability skills, teamwork, and professionalism. College credits are available upon successful completion of this program.

Cosmetology - Scientific study and practice of beauty culture which includes hairstyling, haircutting, manicuring, skin care, chemical services, and all related areas including the sciences, professional ethics and employability skills. This is a state certified program in preparation for state licensing.

Early Childhood Education - Through working directly with three, four and five year old children, students experience operating a preschool, learn about child growth and development, lesson plans, human relations, and nutrition.

Landscape and Greenhouse Management – Aspects of landscape design, greenhouse management and production, equipment operation and maintenance, golf course and sports turf management, floral design, garden center operation, customer service and business management.

Public Safety – Students will learn the basics of Public Safety. These areas include Law Enforcement, Emergency Medical Technician and Firefighting. Specific topics of study include dispatch, communications, incident command, Homeland Security, lifesaving techniques and fire behavior and control.

CULINARY ACADEMY

Bakery and Pastry Arts - Basic and advanced techniques working on/with items such as marzipan, chocolate, meringues, breads, and cake decorating. Sanitation and safety as well as the science of baking and pastries will be included.

Culinary Arts - Students learn the art and science of preparing and serving foods for large numbers of people in restaurants, cafeterias, and catering situations.

LORAIN COUNTY JVS

MANUFACTURING AND PRE-ENGINEERING ACADEMY

Computerized Design and Drafting - Draw and calculate working plans used in manufacturing and construction. Students acquire both manual and computer aided drafting (CAD) skills used in electrical, mechanical, architectural, aeronautical, and civil engineering areas.

Precision Machine Technology - Learn techniques shaping and cutting metal and plastic parts on lathes, milling machines, grinders, drills, and other power driven machines.

Welding and Fabrication - Set up and operate welding equipment to position, align, fit, and weld parts together. Customer projects are used for students to learn layout, fabrication, and welding techniques.

TRANSPORTATION ACADEMY

Auto Technology - Diagnose, adjust, and repair automotive systems including engines, transmissions, suspensions, brakes, electrical, and air conditioning.

Collision Repair - Frame and body straightening, welding, refinishing, painting, replacing glass, installing upholstery, estimating costs, and preparation of insurance forms.

Commercial Truck Technology – Check and repair diesel and gas engines, electrical, fuel, brake, and clutch systems on trucks and buses. Transmissions and drivetrains, lubrication and maintenance will also be covered.

Industrial Equipment Mechanics – Learn small and large equipment repair and maintenance, welding, engine, and powertrain overhaul, parts and service training, hydraulic and diesel fundamentals. Students work on tractors, trucks, industrial, and agricultural equipment.

ART FEE

Advanced Ceramics	50.00
Advanced Photography	120.00
AP® Studio Art 2D*/3D*	100.00
Art Therapy	50.00
Ceramics	50.00
Digital Photo/Photoshop Tech	60.00
Digital Design/Illustration	60.00
Art and Design Explorations	50.00
Photography	120.00
Studio Art 2D/3D	50.00

BUSINESS & TECH FEE

Word Processing for College	5.00
Personal Business Skills	5.00

HEALTH/PE FEE

Health 10	5.00
Physical Education	5.00
SSQAT	5.00
Team Sports I & II	5.00
Yoga Balance & Core	5.00

INDUSTRIAL TECHNOLOGIES FEE

Architecture I Honors	25.00
Computer Building	25.00
Drone Technology	25.00
Engineering Drawing I,II,III,IV	30.00
Introduction to Engineering Honors	20.00
Introduction to Manufacturing	60.00
Robotics	10.00

INSTRUMENTAL MUSIC FEE

Chamber Orchestra/Honors	35.00
Concert Band/Honors	35.00
Concert Orchestra	35.00
Jazz Band	35.00
String Orchestra/Honors	35.00
Symphonic Band/Honors	35.00
World Music: Drumming	35.00

ELA FEE

American Literature	17.00
English 9 Honors	16.00

SCIENCE FEE

AP® Biology*	25.00
AP® Chemistry*	40.00
AP® Environmental Science*	30.00
AP® Physics I & II*	20.00
AP® Physics C*	20.00
Biology / Biology Honors	30.00
Biotechnology (DNA)	25.00
Chemistry/Honors	35.00
Chemistry in the Community	25.00
Integrated Science	10.00
Physical Science	20.00
Physics (All)	10.00

VOCAL MUSIC FEE

Chorale/Honors	35.00
Da Cantari/Honors	35.00
Men's / Women's Chorus	35.00

WORLD LANGUAGE FEE

French I,II,III,IV	9.00
French Honors II, III, IV	9.00
Spanish I,II,III,IV	9.00
Spanish Honors II, III, IV	9.00

AP TESTING FEE

AP® Biology	97.00
AP® Calculus AB	97.00
AP® Calculus BC	97.00
AP® Chemistry	97.00
AP® Computer Science/Principles	97.00
AP® Economics	194.00
AP® Environmental Science	97.00
AP® French	97.00
AP® Government/Politics	97.00
AP® Language Comp.	97.00
AP® Literature Comp.	97.00
AP® Music Theory	97.00
AP® Physics I and II	194.00
AP® Physics C	194.00
AP® Psychology	97.00
AP® Research	143.00
AP® Seminar	143.00
AP® Spanish	97.00
AP® Statistics	97.00
AP® Studio Art 2D	97.00
AP® Studio Art 3D	97.00
AP® US History	97.00

MISCELLANEOUS FEE

Parking Pass	20.00
Senior Pass/Junior Pass	2.50
Senior/Junior Pass Replacement	10.00
Student ID Replacement	5.00

HIGH SCHOOL STUDENT FEE

Activity Fee	20.00
Instructional License	5.00
Locker Fee	2.50
Student ID	2.50

