



Mentor High School

Program of Studies Grades 9 – 12

2015 – 2016

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Mentor High School Program of Studies

Introduction

Purpose

The purpose of this document is to give guidance to students and parents in selecting classes; clarify academic expectations, pre-requisite courses and graduation requirements; and provide a master list of current course offerings.

Introduction

The Program of Studies has been compiled through the cooperative efforts of teachers, counselors and administrators guided by Ohio State Minimum Standards, Mentor Exempted Village School Board Policy, and professional educators with a special knowledge of current curriculum practices.

The purpose of school is learning. Learning means growth in new areas of knowledge, skills or attitudes. Every student must challenge himself or herself to a level of course work that allows him or her to grow and learn. The selection of too difficult a program may result in frustration and failure; too easy a program may result in a lackadaisical attitude, reduced achievement, and surely a failure to reach one's maximum potential. One of our district's vision statements is to prepare our students for the 21st Century and beyond. The courses in this book are designed to do that, and to give our students the foundation they need to be successful.

Materials and Supplies

Mentor Schools provides basic textbook materials and supplies for all courses. Many courses, however, require workbooks and other supplementary materials to be purchased by the students. A list of these courses, the required materials, and their costs will be available to students. Courses requiring fees have been designated in this book. Students who, because of financial reasons, are unable to pay the scheduled fee should

contact the building principals so that alternative arrangements can be made.

Drop and Add Requirements

Students are required to take a minimum number of courses each year. This "minimum course load" includes both required courses and elective courses. With the guidance of parents and counselors, students select these courses during the registration period. This is the time when "schedule planners" are completed. In addition to the required courses, students have an opportunity to select whatever elective courses they wish. The Program of Studies Booklet is the students' and parents' guide for making these selections.

During the time between registration and the end of the school year (early June), students and parents may discuss and request changes in these courses. After the close of the school, no courses will be dropped from a student's schedule at any time unless: **1) a technical error was made in the process of scheduling the student's requests, 2) the student has been clearly academically misplaced, or 3) there is a scheduling conflict.** This is partly due to the fact that the teaching staff has already been hired/reassigned to teach the courses and sections required by the previous spring's sign up. Students who wish to drop or change classes due to academic misplacement must do so no later than the end of the semester for year classes, and the end of the first nine weeks of a semester class. Students may be permitted to drop a class at the beginning of the following year and through the second week of school, as long as another class is added during the same period. This would again depend on class size and staffing considerations. Students are encouraged to sign up for, and follow through on, as many courses as they, their parents, and counselors feel they are academically able to attempt. Courses may be added after the close of school in the spring and during the next school year during the first two weeks of each semester if the class the student wishes to take is not filled. **Schedule changes will not be permitted on the basis of teaching style, personality or time of day.**

Prerequisites

Course prerequisites are designed to promote student success and should be followed. Such requirements will be waived only due to unusual circumstances, e.g., transfers from another district with different course offerings. Requests of this kind will be considered on a limited, individual basis.

Non-Discrimination

The Mentor Exempted Village Public School District hereby gives notice that it does not discriminate on the basis of race, color, national origin, sex, or disability in the educational programs and activities operated by the district. It is the policy of the Mentor Exempted Village Public School district that educational programs and activities are provided without regard to race, color, national origin, sex, or disability.

No student shall be denied admission to the Mentor Exempted Village Public School District or to a particular course or instructional program or otherwise be discriminated against for reasons of race, color, national origin, sex, or disability, or any other basis of unlawful discrimination.

Course Offerings

An elective course will be offered only if the number of students enrolled is sufficient to warrant its inclusion in the curriculum. Juniors and Seniors will receive first consideration for online electives.

Graduation Requirements

It is a student's responsibility to see that requirements for graduation are met. School officials will make every effort to keep up-to-date records and to keep students and parents informed about the status of progress toward compiling the necessary course work for graduation requirements. However, it is the student's responsibility to be acquainted with necessary requirements to meet this goal.

The overall credit requirements for graduation from Mentor High School are as follows:

Subject	Units of Credit
English	4.0
Social Studies U.S. History American Government Economics Elective	3.0
Science Physical Biological Elective	3.0
Mathematics Four courses including Algebra 2	4.0
Health	0.5
Fine Arts/Business	1.0*
Physical Education	0.5**
Electives (all other credits)	5.0
Total	21.0
*All students must receive instruction in economics and financial literacy during grades 9-12 and must complete at least two semesters of fine arts taken any time in grades 7-12. Students following a career-technical pathway are exempted from the fine arts requirement. **See PE Waiver information below.	

Students must pass all parts of the Ohio Graduation Test examinations to receive a diploma. **Students who do not meet the necessary requirements for graduation are not eligible to participate in any senior activities relating to and including commencement.**

Graduation Requirements for the Class of 2018 and Beyond

The Ohio Department of Education made changes to the graduation requirements for the class of 2018 and beyond that will require students to take seven (7) end-of-course exams in addition to the 21 credits they must earn to graduate. The seven end-of-course exams include: English 9, English 10, Algebra I, Geometry, American History, American Government, and Biology. Additionally, students must meet one (1) of the following three (3) requirements: (a) Earn at least 18 points cumulatively on

the 7 end-of-course exams where students must earn a minimum of four (4) points in math, four (4) points in English and six (6) points across science and social studies, (b) Earn a “remediation-free” score on a nationally recognized college admission exam such as ACT or SAT, or (c) Earn a State Board of Education-approved, industry-recognized credential or a state-issued license for practice in career and achieve a score that demonstrates workforce readiness and employability on job skill assessments.

Physical Education Waiver

Students in grades 9-11 may be excused from the physical education course requirement by participating in **District-sponsored** interscholastic athletics, marching band, or cheerleading for at least two (2) athletic seasons during high school grades 9-11, or have participated in the junior officer training corps for at least two (2) full school years. Ohio Revised Code defines district-sponsored interscholastic athletics, marching band, or cheerleading as any high school athletic team, high school cheerleading squad, or high school marching band of the Mentor Exempted Village School District that participates in the District’s regular athletic season(s) and is operated under the supervision of a Board employee. **Club activities and/or club sports are not considered part of District-sponsored athletics, marching band, or cheerleading.**

High school students in grades 9-11 who meet this requirement will not be required to complete any physical education course as a condition to graduate. However, in order to be eligible for graduation, a high school student, who is excused from the high school physical education class requirement, must complete at least one (1) semester or .5 credits of instruction in another course of study. This semester of instruction must be separate from and in addition to all other courses of study and hours of instruction that are required to graduate. Students still need to earn a minimum of 21 credits to meet the graduation requirements.

A student must choose to meet his/her physical education requirement **EITHER** through the waiver **OR** through physical education classes. Students may not use a combination of both.

A high school student who has not fulfilled his/her physical education requirement prior to the beginning of his/her senior year will be scheduled into physical education classes. **Participation in District-sponsored**

interscholastic athletics, marching band, or cheerleading during the senior year cannot be used to fulfill the physical education graduation requirement.

The following activities can be used to waive the physical education requirement:

Baseball	Basketball	Bowling
Cheerleading	Cross Country	Football
Golf	Gymnastics	Hockey
JROTC	Lacrosse	Marching Band
Soccer	Softball	Swimming/Diving
Tennis	Track	Volleyball
Wrestling		

Successful completion of a season, in the case of interscholastic athletics, means that a student is a member of the team, eligible for end-of-season awards/recognition, and has been available to participate (not-injured) in a majority (more than 75%) of the athletic contests scheduled during the regular season. A student who quits, is ruled ineligible, or has an athletic/activity code violation cannot use the PE Waiver.

Course Cancellations

Insufficient enrollment causing the cancellation of specific classes or scheduling conflicts may require the student to select alternative courses. In these cases the student and parent will be notified as soon as possible and will be assisted in selecting another course.

Course Load

Ninth and **tenth** grade students are required to take six courses or the equivalent each semester. **Eleventh** grade students are required to take five courses one semester and six courses the other semester. **Twelfth** grade students are required to take a minimum of five courses each semester. Students achieve sophomore, junior or senior standing by having earned the number of credits indicated below:

Sophomore – 5.25 credits, **Junior** – 10.75 credits, **Senior** – 16 credits

Students who have failed courses, dropped out and subsequently reentered school, or have had school progress delayed because of personal circumstances or illness may elect to attend high school more than four years. In fact, in such cases it is recommended that more time be allotted to the educational program.

All students are required to have an accurate schedule on file in the school student management system.

Students who attend summer school must make the necessary schedule adjustments in August upon return of the counselors.

College Core

In order to be successful in college, high school students should undertake a well-balanced program with some courses in all subject areas. Because requirements for colleges vary, students should check the recommendations of the specific colleges in which they are interested before planning their schedules. Basically, however, most colleges recommend that students complete at least the following subjects:

- Four years of English;
- Three years of science (two of which should be laboratory);
- Three years of math (Algebra 1, Algebra 2, Geometry), one of which should be taken in twelfth grade;
- Two years of world language (Some colleges recommend three years – see your counselor);
- Three years of social studies;
- One year of visual and/or performing arts (Some four-year institutions recommend one credit in an art or music program for admittance. Please check with your counselor and the colleges you are interested in attending).

Some of Ohio's state universities require these courses for unconditional admission. A math class in twelfth grade is highly recommended. Students must complete Algebra 2 by the end of the twelfth grade. Students who plan to attend community college should discuss with their counselors the requirements for admission and the transfer policies. With careful planning, students may be able to take a Career Prep or Tech Prep program **and** complete the college prep curriculum.

Athletics & Extracurricular Activities Eligibility

In order to be eligible for athletics and extracurricular activities, students must pass the equivalent of five units of credit and maintain a 2.0 grade point average. *Summer school credits and grades are **not** considered in determining eligibility.*

Standards

1. Students must pass courses during the previous nine-week grading period that earn a minimum of five credits per year toward graduation.
2. Students must have achieved a minimum of a 2.0 grade point average in the nine-week period preceding the period of their participation.

Students who do not meet **both** of the eligibility standards defined above shall be ineligible for participation in or practice interscholastic athletics or extracurricular activities until the end of the grading period.

Probation Status

Students achieving a grade point average between 1.0 and 2.0, and who have passed courses that earn a minimum of five credits per year, may petition for probationary status. In order to remain eligible during probationary status, the student must attend a mandatory study table at school. The student must attend study table for 30 minutes, three days per week. The study table is supervised, and the student must be working on school related material. As long as the student attends the required study table and works as required, he/she will be eligible for participation. However, if the student fails to meet the requirements of the probationary contract, the following penalties will occur:

- First offense: The athlete becomes ineligible for the next calendar week.
- Second offense: The athlete becomes ineligible for the remainder of the grading period.

A student remains on probation the entire grading period. At the end of the grading period his/her status will be re-evaluated. An athlete may remain on probation during consecutive grading periods if he/she is making

academic progress. If an athlete does not demonstrate academic progress (improved grades), he/she becomes ineligible for the following grading period. If the athlete has been on probation for more than one consecutive grading period and he/she is still not eligible, his/her status will be re-evaluated to determine if alternate intervention is required or if ineligibility is needed. If an athlete is ineligible, but possibly could return to eligibility during the sport season, he/she must attend the study table as if they are on probation in order to regain their eligibility the following grading period. *Please check with your principal or the Director of Athletics if you are unsure of your eligibility status.*

Educational Options

The Mentor Secondary Program provides each student with a broad and general educational background as is reflected in the requirements for graduation. The primary goal of the educational program is to insure that, before the students graduate from Mentor High School, they have mastered the basic learning skills. These skills will enable them to become lifelong learners and to cope successfully with a changing society. The second goal of the program is to offer students, once they have demonstrated competency in the basic skills, a wide variety of choices permitting them to develop their own sequence of studies that will assist them in developing the personal, career and educational skills necessary for success either in their chosen vocation or in college. The career and college preparatory programs of studies outlined elsewhere in this booklet are designed to guide students in the selection of subjects that will lead them toward their chosen goal.

Lakeland Articulation

Completion of certain sequences of courses at Mentor High School may lead either to a course waiver or credit by examination at Lakeland Community College. Lakeland charges a nominal fee for credit by examination. Some of the career preparation programs also have bi-lateral agreements with two-and four-year state of Ohio colleges and universities. Please ask the instructors or counselors for specific information. Application forms for course waiver credit by examination may also be obtained from the counselors. For more information regarding the curriculum, consult the most current community college bulletin.

Early Graduation

Sixth Semester Graduation, Grade 11

Seventh Semester Graduation, Grade 12

A student may be eligible for early graduation either at the end of the junior year (sixth semester) or at the end of the first semester of the senior year (seventh semester). *Those students who wish to be considered for early graduation should ask the unit principal or counselor in the unit office for more information early in their high school experience.*

Sixth semester graduation – To be eligible for sixth semester graduation, a student must have met all Mentor Board of Education requirements at the end of the junior year. These requirements include: (1) earning a minimum of 21 units of credit, (2) earning 3-1/2 credits during the last 2 semesters of attendance, and (3) making the proper application by May 1 of the junior year. The senior English requirement can be met by completing 6 semester hours of English at a local college.

Seventh semester graduation – To be eligible for seventh semester graduation, a student must have met all Mentor Board of Education requirements at the end of the first semester of the senior year. These requirements include: (1) earning a minimum of 21 units of credit, and (2) earning 3-1/2 credits during the last two semesters of attendance. The fourth English and math credit can be met by completing ½ credit for the first semester in the appropriate English and math course and by completing an additional ½ credit in English and math.

College Credit Plus (CCP)

College Credit Plus (CCP) was enacted into Ohio law in September 2014. Effective with the 2015-2016 school year, it replaces the Post-Secondary Education Options (PSEO) program and redefines "alternative dual enrollment programs". The CCP program will govern those arrangements where a student is engaged in non-sectarian, non-remedial educational coursework while in high school that automatically results in transcribed high school and college credit at accredited Ohio public colleges and universities after the successful conclusion of that coursework. The CCP program will be the primary mechanism to pay for student-earned, transcribed college credit while in high school and will be paid for by the

District (unless the student fails the course). Students in grades 7-12 who meet the CCP eligibility requirements may participate in a CCP program. Mentor High School has developed two pathway opportunities in conjunction with Lakeland Community College, one where a student can earn 15 transcribed credits and one where a student can earn 30 transcribed credits.

Mentor High School and Lakeland Community College Credit Plus Pathway

15 Credit Pathway

Course	Credits	Equivalent
ENGL 1110 & ENGL 1120	6 Credits	English 11 or English 12
POLS 1300	3 Credits	American Government
ECON 1150	3 Credits	Economics
HUMX 1100 or COMM 1000	3 Credits	Elective Credit

30 Credit Pathway

Course	Credits	Equivalent
ENGL 1110 & ENGL 1120	6 Credits	English 11 or English 12
POLS 1300	3 Credits	American Government
ECON 1150	3 Credits	Economics
HUMX 1100 or COMM 1000	3 Credits	Elective Credit

Plus an additional 15 Credits from any of the pathways below:

Science Technology Engineering and Math (STEM) Pathway:

Course	Credits	Equivalent
MATH 1650 & MATH 1700	4/3 Credits	FST
MATH 1550	4 Credits	Statistics
MATH 2500	5 Credits	AP Calc AB
MATH 2600	5 Credits	AP Calc BC
MATH 2700	4 Credits	Analytical Geom & Calc 2
MATH 2850	4 Credits	Differential Equations
BIOL 1010	3 Credits	Biology
BIOL 1020	3 Credits	Biology
BIOL 1510	4 Credits	AP Biology
BIOL 1520	4 Credits	AP Biology
CHEM 1100	4 Credits	Chemistry

CHEM 1500	5 Credits	AP Chem
CHEM 1600	5 Credits	AP Chem
PHYS 1550	3 Credits	Physics
PHYS 1610	5 Credits	AP Physics
PHYS 1620	5 Credits	AP Physics
ITIS 1505	3 Credits	Computers/Info Processing
ITCS 1010	3 Credits	Programming Logic
ITIS 1100	2 Credits	Internet Tools/Web Creation
ITCS 1105	3 Credits	Web Programming 1

Humanities Pathway:

Course	Credits	Equivalent
ENGL 2250 & ENGL 2260	3 Credits Ea.	American Lit
ENGL 2280 & ENGL 2290	3 Credits Ea.	British Lit
POLS 2100	3 Credits	State/Local Government
POLS 2300	3 Credits	Comparative Politics
PSYC 1500	3 Credits	Psychology
SOCY 1150	3 Credits	Sociology
GEOG 1500	3 Credits	Geography
HIST 1150 & HIST 1250	3 Credits Ea.	Western Civilization 1 & 2
PHIL 1500	4 Credits	Intro to Philosophy
PHIL 2700	3 Credits	Ethics

Business Pathway:

Course	Credits	Equivalent
ACCT 1100	4 Credits	Financial Accounting
ACCT 1200	3 Credits	Managerial Accounting
BUSM 1300	3 Credits	Business
ECON 2500	3 Credits	Macroeconomics
ECON 2600	3 Credits	Microeconomics
FINN 1500	3 Credits	Applied Finance

This program is available as an option to earn credit toward high school graduation by attending on a full or part-time basis a state-assisted college or university or any institution holding a certificate of authorization to award degrees issued by the Ohio Board of Regents. Alternatively, the student could choose to receive college credit rather than high school credit, but in that case, he or she would have to pay all tuition, textbooks, materials, and fees. Please refer to your counselor if you are interested in this option.

Profile of an Honors/Advanced Placement Student

Students who succeed as honors and/or advanced placement students share some common characteristics that are important to their success. When making decisions about enrolling in honors and/or advanced placement courses, students need to consider the characteristics of the typically successful honors/advanced placement student and make decisions about enrollment based on self-evaluation of their skills, abilities, and work ethic. We encourage all students to challenge themselves intellectually. We want to be sure that students make decisions about enrollment in honors/advanced placement courses based on sound information and careful consideration.

The Characteristics of Successful Honors/Advanced Placement Students

- ✓ Demonstrated strengths in:
 - Study skills
 - Motivation
 - Reading skills
 - Organization and time management skills
 - Initiative
- ✓ Willingness to exhibit intellectual curiosity
- ✓ Willingness to accept responsibility for his/her own learning
- ✓ Willingness to spend time beyond what is expected in a college-preparatory class
- ✓ Willingness to accept challenges, acknowledge that the work will be difficult, and perseverance when it is
- ✓ Ability to accept and learn from constructive criticism and mistakes

Students who demonstrate these characteristics are most often highly successful in honors/advanced placement courses.

Advanced Placement Courses

Advanced Placement courses offer students the opportunity to do college-level studies in the tenth, eleventh and twelfth grades. Upon completion of the AP course, students may take the nationally administered examination in May. According to their performance on the examination, they may receive up to twelve college credit hours for each examination they take. This makes it possible for a student who is successful on the exam(s) and in

the courses(s) to enter college at or near the sophomore level. Schools throughout the U. S. recognize the Advanced Placement Program, though different schools treat AP credit differently. If students have questions about how their intended college handles AP credit, they should consult their counselor. At this time, Advanced Placement courses are offered in the following areas at Mentor High School:

Art	Biology
Psychology	English Lit & Comp
Calculus AB & BC	American Government
French	Chemistry
U.S. History	German
Physics	European History
Spanish	Statistics
Economics (Micro and Macro)	Computer Science A
AP Seminar	AP Human Geography*
AP Environmental Science*	AP Art History*

*online course

Admission to the honors and Advanced Placement courses requires several criteria, including the following:

1. A commitment to academic achievement;
2. A grade point average of B or better;
3. An understanding and acceptance of the time the courses involve, both in terms of study time and homework;
4. Teacher and counselor recommendations;
5. Performance on academic achievement tests;
6. Parental approval and support.

We deal with three basic questions in our consideration of a student for placement in an Advanced Placement class:

1. Does the student have sufficient general ability?
2. Has he or she adequate academic preparation?
3. Has he or she sufficient motivation and maturity?

AP Capstone™ Diploma Program

Mentor Schools is pleased to offer this new diploma program that gives students an opportunity to apply critical thinking, collaborative problem solving, and research skills in a cross-curricular context. AP Capstone is built on the foundation of a new, two-year high school course sequence.

AP® Seminar and **AP Research** are designed to complement and enhance the in-depth discipline-specific study provided through AP courses. It cultivates curious, independent, and collaborative scholars and prepares them to make logical and evidence-based decisions.

AP Capstone was developed in response to feedback from higher education. The two AP Capstone courses, with their associated performance tasks, assessments, and application of research methodology, complement the rigor of AP courses and exams by challenging students to:

- Think critically and creatively to construct meaning or gain understanding
- Plan and conduct a study or investigation
- Propose solutions to real-world problems
- Plan and produce communication in various forms
- Collaborate to solve a problem
- Integrate, synthesize, and make cross-curricular connections

Students who earn scores of 3 or higher in both of the AP Capstone courses and on four additional AP Exams of their choosing will receive the AP Capstone Diploma™. Those students who earn scores of 3 or higher in both of the AP Capstone courses but not on the four additional AP Exams will receive the AP Capstone Certificate™, signifying successful performance in those courses. AP Seminar will be offered to students in the 2015-16 school year and AP Research will be added in 2016-2017.

Online Courses

Starting in the 2015-16 school year, MHS students have the opportunity to select from a variety of online electives, participate in a blended Economics course (blend of face-to-face and online instruction), as well as a full online Health course. These course offerings will provide additional programming for students and provide them with college and career readiness skills. Students are not permitted to take more than two online courses without approval from the Guidance Department. Additional online options are offered through the Online Cardinal Achievement Academy.

Profile of an Effective Online Student

The online learning process requires **commitment** on the student's part. Staying up with the class and completing all work on time is vital. Once a student gets behind, it is very difficult to catch up. We want to be sure that students make decisions about enrollment in online courses based on sound information and careful consideration. Students interested in taking additional online courses should meet with their guidance counselors to discuss academic readiness. Below are some important characteristics of a successful online student:

- ✓ **Be self-motivated and self-disciplined.** With the freedom and flexibility of the online environment comes responsibility. The online process takes real commitment and discipline to keep up with the flow of the process.
- ✓ **Be able to communicate through writing and like to read.** In the Virtual Classroom, nearly all communication is written, so it is critical that students feel comfortable expressing themselves in writing. Strong writing requires thought and thought requires work. Be ready to write and write well. Furthermore, you should be comfortable reading on a computer screen and be able to type.
- ✓ **Be willing to speak up if problems arise.** Many of the non-verbal communication mechanisms that instructors use in determining whether students are having problems (confusion, frustration, boredom, absence, etc.) are not possible in the online paradigm. If a student is experiencing difficulty on any level (either with the technology or with the course content), he or she must communicate this immediately. Otherwise the instructor will never know what is wrong.
- ✓ **Be willing and able to commit to 4 to 15 hours per week per course.** Online is not easier than the traditional educational process. It requires time and commitment similar to a traditional course.

Be able to meet the minimum requirements for the program.

The requirements for online are no less than that of any other quality educational program. The successful student will view online as a convenient way to receive their education – not an easier way.

Online Cardinal Achievement Academy

The Online Cardinal Achievement Academy is part of Mentor High School. Students enrolled in the academy are considered students of Mentor High School and have the same rights and privileges of MHS students. The academy is designed to provide students with flexible learning opportunities. The academy offers a full range of classes to meet the needs of all students. All classes and coursework are conducted online.

Credit Flexibility

Credit Flexibility is any alternative coursework, assessment or performance that demonstrates proficiency needed to be awarded equivalent graduation credit as approved by the school district. Approved credit awarded through this policy will be posted on the student's transcript and counted as required graduation credit in the related subject area or as an elective. Information regarding the Credit Flexibility policy and program is posted on the district website. Interested students should contact their guidance counselor for additional information and guidelines.

Community Service Grades 9-12 (not a graduation requirement)

The Community School Service Club provides an opportunity for students at Mentor High School to do volunteer service within the Mentor Exempted Village School District or with an approved community agency. Recognition will be given on the student's transcript and at graduation if 30 hours or more are completed.

A list of volunteer assignments will be developed to give the student the opportunity to choose an area of interest. Areas might include: club activities, audiovisual, library aide, teacher's assistant, student tutor, office clerical, and other areas deemed appropriate. A list of services will be developed for student reference with the local community agencies.

Senior Project/Capstone Senior Project, Grade 12

Senior Project/Capstone is designed to provide interested seniors with the opportunity to work on meaningful independent projects of their own

selection and design. Eligible seniors will be excused from their classes the last two and one-half weeks of the school year to pursue a project outside the normal school setting. The project may take the form of an experience, such as extensively shadowing a person in a specific career field, or it may be a research project, a creative endeavor, or travel experience. Seniors will be eligible for participation in this project based on the following criteria:

1. Passing all classes;
2. Meeting all graduation requirements;
3. Maintaining good attendance;
4. Displaying good citizenship;
5. Developing a project acceptable to the committee.

Each participating senior will develop a project subject to approval by the project committee. The student is responsible for choosing a faculty advisor who will meet with the student on a weekly basis. Participating seniors will keep a daily journal to record their experiences and reflections. Students must spend 30 hours a week pursuing the project. At the conclusion of the project, the student will write a reflection paper on the experience. The student will also be evaluated by his/her on-site coordinator. Participating seniors will have **Senior Project/Capstone** appear on their transcript. Capstone Project is three weeks and exclusively for Career Tech/College Tech Prep students. Information will be discussed by the program instructor.

Career Tech Prep Programs

There are typical sequences for courses designed to develop a student's skills to the extent that he or she may qualify for direct entry into employment as well as technical preparation for post-secondary education. Courses are strongly recommended for the development of employability skills and are essential to the development of technical skills.

Most career preparation programs are two-year sequences with the exceptions of the practical nursing program and the cooperative work-study courses. Students age 16 or over are eligible for career preparation programs. Students interested in enrolling in a career preparation course should contact their counselors and apply for acceptance. Application to a one-year cooperative work-study course should be made during the junior year.

College Tech Prep Programs

College Technical Preparation (College Tech Prep) is an educational program designed to prepare students for careers as technicians in business and industry. College Tech Prep has been developed to meet the needs of the high school graduate who can no longer rely solely on a diploma as the ticket to a high paying technical career. College Tech Prep is a course of study designed for high school students to help them get a head start in the pursuit of a technical career. Through a blending of higher level academic and technical courses, College Tech Prep helps students to prepare themselves more fully for the advanced classes required by two-year technical and community colleges. Lakeland Community College and Mentor High School have formed a partnership that provides high school students the opportunity to earn college credits toward an Associate of Applied Business or Applied Science degree at Lakeland. (For a list of high school courses that are accepted as Lakeland credits, consult your counselor.) Some four-year universities such as Cleveland State have also joined the College Tech Prep initiative to provide an easy transition from a two-year degree to a four-year degree.

Career Passport

The Career Passport is a career planning document for Career Technical Education students that identifies the student's marketable skills and assists in the transition from school to work. The Passport will include a letter of verification, diploma, resume, written definition of career goals, record of achieved competencies, transcript, and sample of learned employability skills. The portfolio may also include a school profile, record of awards, achievement letters or recommendations, sports vita, and a documentation of community service.

Summer School

The Summer School Program is designed to allow students to correct or remediate academic weaknesses in courses they have previously failed. In gaining credit for their enrollment and successful completion of their classes, the students may have the opportunity to advance to the next grade level and/or attain credits needed to graduate. Seniors attending summer school who successfully pass credits necessary to meet graduation requirements will receive an August diploma. Students may be tutored in classes for credit that are not offered in summer school at the expense of the

student. All summer school classes and tutoring requests should be approved through the student's counselor and/or principal.

Students may take physical education for new credit and apply it toward graduation. This class is open to students entering grades nine through twelve only.

Registration for summer school make-up classes begins the Monday after the end of the school year. Summer school lasts for five weeks.

Tuition is set by the Board of Education, and summer school is operated at no cost to the Board of Education through funds derived from tuition. All classes of summer school are contingent upon sufficient enrollment.

Academic Letter Program

Each May we will hold an Underclassmen Awards Ceremony to recognize outstanding academic achievement based on a student's first three (3) grading periods GPA. Academic Letter criteria are as follows*:

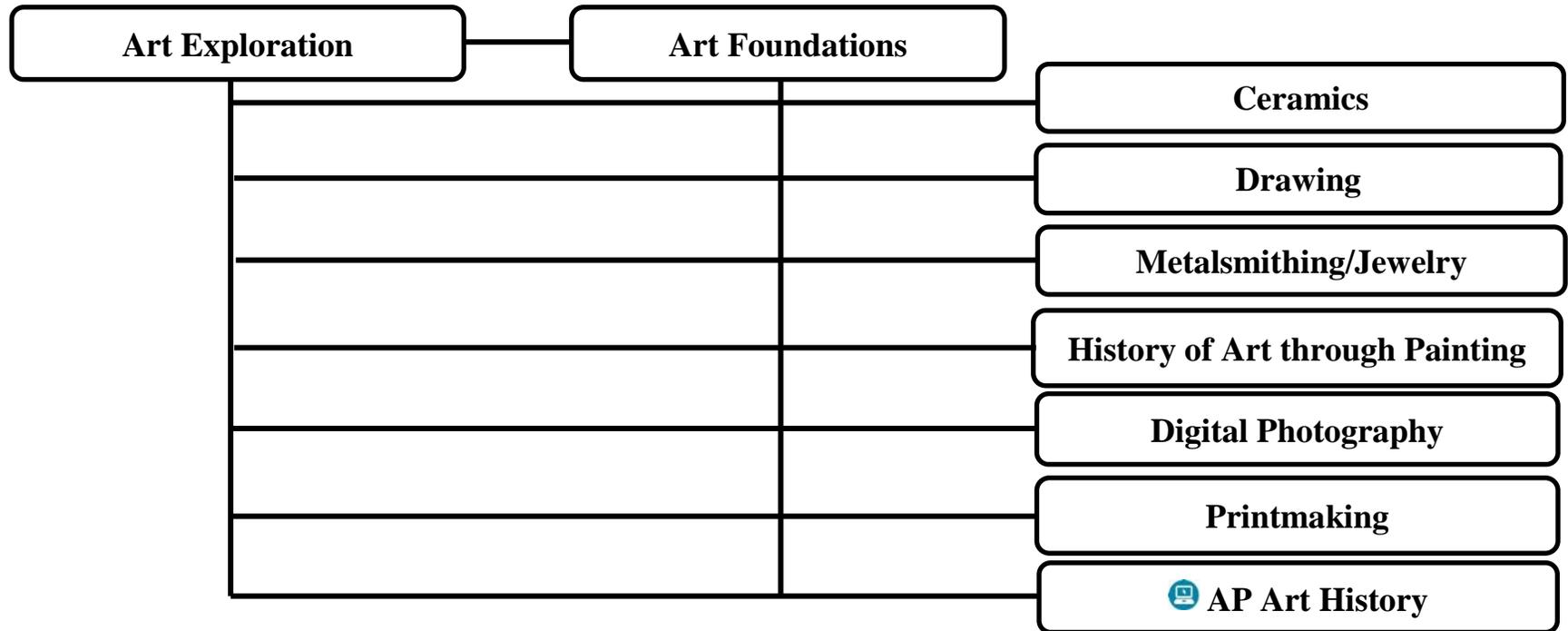
Year	GPA	Award
1	3.5 or higher	Class Numerals and Certificate
2	3.5 or higher	Academic Letter and Certificate
3	3.5 or higher	Lamp of Knowledge Pin and Certificate
4	3.5 or higher	Lamp of Knowledge Pin and Certificate

*for the class of 2016 and beyond—the class of 2015 and prior follow previous guidelines of receiving their letter the first year and pins/certificates for all subsequent years.

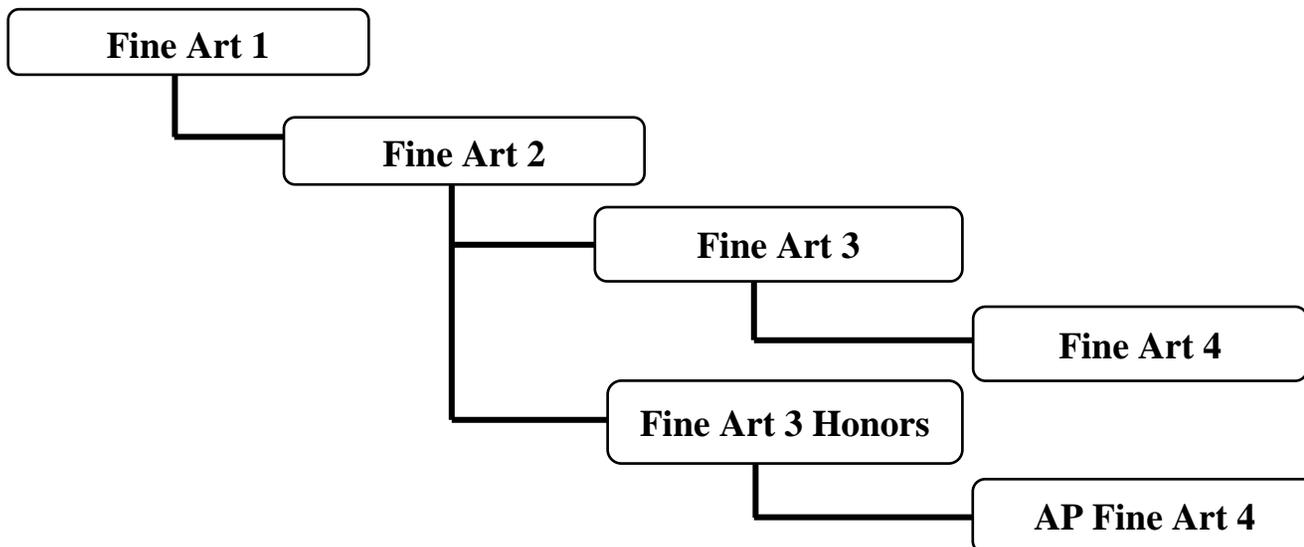
Comparison of Diplomas with Honors Criteria
Students need to fulfill all but one criterion for any of the following Diplomas with Honors

Subject	High School Academic Diploma with Honors Graduating Classes 2011 and Beyond	Career-Technical Diploma with Honors for Graduating Classes 2011 and Beyond
English	4 units	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 content	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 content
Science	4 units, including physics and chemistry	4 units, including physics and chemistry
Social Studies	4 units	4 units
Foreign Language	3 units (must include no less than 2 units for which credit is sought), i.e., 3 units of one language or 2 units each of two languages	Not counted toward requirements
Fine Arts	1 unit	Not counted toward requirements
Career-Technical	Not counted toward requirements, and may not be used to meet requirements	Now counted in Electives
Electives	Not counted toward requirements	4 units of Career-Technical minimum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.
Grade Point Average	3.5 on a 4.0 scale	3.5 on a 4.0 scale
ACT/SAT Score [excluding scores from the writing sections]	27 ACT / 1210 SAT	27 ACT / 1210 SAT
Additional Assessment	Not applicable	Achieve proficiency benchmark established for appropriate Ohio Career-Technical Competency Assessment or equivalent

Art Courses Flowchart



Note:
 Students may enter *Fine Art 1* from any of the courses listed above upon teacher recommendation. *Fine Art* students may take *Ceramics*, *Drawing*, *Metalsmithing/Jewelry*, *History of Art through Painting*, *digital Photography*, and/or *Printmaking* in conjunction with *Fine Art*.



Art

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1004	Art Exploration	1.0	2	This course is open to 9 th grade students who are interested in a year-long “product based” art class. This course explores a variety of media and techniques. It also prepares the student for any semester art courses. Creative problem solving, craftsmanship, and care of materials will be stressed. Students will be required to purchase a supply packet in addition to the art fee.		No
1010	Art Foundations	.50	1	This semester course is designed to teach students in grades 10-12 about visual literacy and the “language of visual art.” It also prepares the student for any other semester art courses. Emphasis will be on the observation of art, the design of art, and the analysis of art through the elements and principles of design. Students will be required to purchase a supply packet in addition to the art fee.		No
1046	 AP Art History	1.0	2	 THIS IS A FULLY ONLINE COURSE. This course is designed to provide college-level instruction in art history and prepare students for the AP Art History exam. Students examine major forms of artistic expression from the past to the present and from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. Open to students in Grades 11 and 12.	Art Exploration, Fine Art 1 or Art Foundations	Yes
1001	Fine Art 1	1.0	2	This course is designed to be the first course in a series of Fine Art classes. Its purpose is to begin the portfolio preparation process. This course is designed for those students indicating a serious interest in art, but not necessarily a career in art. Previous preparation in seventh and eighth grade art, combined with demonstrated proficiency in media and techniques, serve as a basis for student participation in Fine Art 1. Students will be required to purchase a sketchbook and a supply packet in addition to the art fee.	Teacher recommendation	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1043	Fine Art 2	1.0	2	This course is designed to be the second course in the series of Fine Art classes. Its purpose is to continue the portfolio preparation process and provide further development of drawing skills, painting techniques, and design concepts that were explored in Fine Art 1. A shift of emphasis from previous art classes is the expectation that students have strong drawing skills and a work ethic which embraces working on projects both in class and outside of class. This course is designed to continue the fine art experience but students may not necessarily desire a career in art. Students will be required to purchase a sketchbook and a supply packet in addition to the art fee.	Fine Art 1 and teacher recommendation	No
1044	Fine Art 3	1.0	2	Major emphasis will be on a further development and refreshment of drawing, basic painting skills and design concepts. Students will not just be introduced to media but will be exploring principles of design through a variety of drawing and painting processes. Students will draw from life, paint (transparent and opaque), respond to creative problem solving and deal with two-dimensional design both with and without color. This course is designed to continue the fine art experience but students may not necessarily desire a career in art. A journal is required, and a junior portfolio will be assembled. A studio fee is required.	Fine Art 2 and teacher recommendation	No
1044H	Fine Art 3 Honors	1.0	2	This course enables highly motivated students to explore the goal of art as a career option. Emphasis is placed on the production of a volume of quality pieces of artwork. It is the expectation that students have strong drawing skills and a work ethic which embraces working on projects both in class and outside of class. This course provides students with an awareness of post-secondary options in art and helps them begin to prepare an excellent portfolio for study at the college level. All students enrolling in the course are expected to assemble and submit a Junior Studio Art Portfolio. Successful completion of this course will prepare students for the opportunity to enroll in AP Fine Art IV4.	Fine Art 2 and teacher recommendation	Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1045AP	AP Fine Art 4	1.0	2	After completing this course, the student will be able to pursue art in a post-secondary school. This course enables highly motivated students to perform at the college level while still in high school. Emphasis is placed on the production of a volume of quality pieces of artwork. It is the expectation that students have strong drawing skills and a work ethic which embraces working on projects both in class and outside of class. This course allows students to compare their work with that of other high school students throughout the nation and helps them prepare an excellent portfolio for study at the college level. All students enrolling in the course are expected to assemble and submit an AP Studio Art Portfolio. The AP Studio Portfolio is a performance-based exam rather than a written exam and is mandatory for AP course credit. The completion of this course will provide students with the opportunity to receive college credit or to place out of certain college courses. Students should contact their post-secondary institutions to determine the status of AP credentials there. Open to students in Grades 11-12.	Fine Art 3 Honors and teacher recommendation	Yes
1012	Ceramics	.50	1	This course is designed to emphasize hand building techniques. Wheel thrown forms may be explored. Students will also study and practice surface decoration, glazing, and firing of pottery and sculpture. Students will be required to pay an art fee.	Art Exploration, Fine Art 1 or Art Foundations	No
1016	Drawing	.50	1	Students will explore a variety of media in the area of drawing. Emphasis will be on both creative problem solving and critical observation. Strong drawing skills are not needed to take this course. Students will be required to purchase a journal and a supply packet in addition to the art fee.	Art Exploration, Fine Art 1 or Art Foundations	No
1022	Metalsmithing/ Jewelry	.50	1	Students electing to take this course will be offered the opportunity to design and fabricate personal jewelry and small scale sculpture. Students will be introduced to basic bench procedures and silver soldering. Safety will be stressed. Students will be required to purchase a journal and a supply packet in addition to the art fee.	Art Exploration, Fine Art 1 or Art Foundations	No
1024	History of Art through Painting	.50	1	Students begin with an introduction to the basic principles of painting and learn how to critique and compare works of art. Coverage of artistic movements highlight historical context and introduces students to key artists that represent a variety of geographic locations. Throughout the course, students apply what they have learned about art critique to analyze and evaluate both individual artists and individual works of art. Students will be required to purchase a journal and a supply packet in addition to the art fee.	Art Exploration, Fine Art 1 or Art Foundations	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1030	Introduction to Digital Photography	.50	1	<p>This is an introduction to photography that emphasizes basic camera techniques. In this course, students will explore digital photography and related technologies for the production of fine art. Students will develop skills necessary to create their own unique body of work using digital photographic techniques. The production and analysis of expressive and thoughtful art work is the main objective of this course</p> <p>Requirement: Students must provide a 7+ megapixel digital camera. <u>There are no exceptions as the school cannot supply cameras.</u> Students will be required to pay an art fee.</p>	Art Exploration, Fine Art 1 or Art Foundations	No
1020	Printmaking	.50	1	<p>This course is based upon the four major printing processes and includes techniques in linoleum cutting, monoprinting, and acid etching. The creation of multiple prints and presentation of a portfolio of works will be stressed. Students will be required to purchase a supply packet in addition to the art fee.</p>	Art Exploration, Fine Art 1 or Art Foundations	No

Business/Computer Science

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1061	Accounting	.50	1	This course introduces students to the entire accounting cycle for a service business. Aspects of corporate accounting are also included as well as discussions of current corporate events and business ethics. Students participate in a business simulation to gain "real world" experience. This course includes computerized accounting with Excel.		No
1054	Media & Marketing for the 21 st Century	.50	1	This project-based course is designed to introduce students to the business of advertising. Students will learn to define target markets, formulate an advertising plan, and implement an advertising strategy. Students will develop advertisements for a variety of products and services in all types of media. Students will utilize Adobe CS3 and MS Office Suite throughout the course.		No
1066	Law 101	.50	1	Law 101 is an engaging class which makes use of interactive methods to give students a practical understanding of law and our legal system. The course focus: legal issues relevant to students' lives such as the Legal System, Criminal & Civil Law, Juvenile Justice, Contracts, Consumer Protection, Product Liability, and Employment Law to name a few. The course goal: help students develop knowledge and skills essential in our law-oriented society. A field trip to Mentor Municipal Court and mock trials are incorporated within this class.		No
1069	Business Management	.50	1	Business Management requires a combination of skills and knowledge, coupled with good judgment and leadership qualities. This hands-on course takes students through some of the various requirements they may encounter while owning, managing, or planning a business. Students are provided an opportunity to set up and run a company, as well as prepare a business plan. This course includes a field trip.		No
1091	 Sports Management	.50	1	 THIS IS A FULLY ONLINE COURE. In this introduction to the fast-growing field, students explore topics such as sports marketing, branding, ticket sales, media relations, and ethics. They also learn tips for breaking into the industry. The activities and assignments require students to respond to real-world sports management scenarios.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1092	 Intro to Entrepreneurship 1	.50	1	 THIS IS A FULLY ONLINE COURSE. Students learn the basics to plan and launch their own business by studying successful entrepreneurs and basic economic concepts such as competition, production, setting up a business plan, and more.		No
1093	 Intro to Entrepreneurship 2	.50	1	 THIS IS A FULLY ONLINE COURSE. Students continue to develop skills including setting goals, understanding financial concepts, working with others, and managing employees.	successful completion of Level 1	No
1094	 C++	1.0	2	 THIS IS A DISTANCE LEARNING COURSE. This course will cover development of C++ programs. Topics include data storage, pointers, conditions, iteration, recursion, object-oriented design, and testing. Emphasis will be placed on the applications of programming to business and gaming. Open to students in Grades 10-12.	AP Computer Science	Yes
1076	Computer Applications	.50	1	Interested in becoming proficient with the latest Microsoft Office technology? Explore a variety of computer software applications used by businesses and individuals, as well as emerging technologies.		No
1100	Personal Finance	.50	1	This course is designed to help students develop the skills to make informed choices concerning post-secondary schooling, careers, and financial planning. The goal of this course is to provide a bridge between the knowledge acquired throughout high school and the skills needed to succeed after graduation. Students will apply their knowledge to a variety of real-world simulations including: job interviews, paychecks, taxes, banking, investing, budgeting, and financial planning.		No
1088	Programming 1: Introduction to Visual Studio	.50	1	Students will learn how to write simple interactive computer programs to run the windows environment using Visual Studio Express. Students will learn and understand the software development cycle as used in the business world. Students will use programming logic and debugging skills to independently create real-life applicable programs. An understanding of variables is essential for success in this class.	successful completion of Algebra 1	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1090	Programming 2: Applications in Computer Science	.50	1	This course is designed to further the knowledge and skills of students in Object Oriented Design (OOD) programming through the continued use of Visual Studio Express and an introduction to a Java Interactive Development Environment. Students will create interactive programs using logic and debugging skills both independently and in teams. Projects prepared by the students will be presented to the class.	Programming 1	No
1089	Web Page Design	.50	1	This course is designed to help students learn basic web page design skills through the application of WYSIWYG (What you see is what you get) software applications such as Dreamweaver CS3 and basic HTML. Students will create and manipulate web sites from templates and original thought. Students will learn how to create sites for personal use as well as business applications.		No
1071	International Business and the Global Environment	.50	1	This project-based course provides students with a background in the global marketplace and makes students aware of the growing need for becoming active in a 21 st century global business economy. This course gives students an introduction to the essentials of international business and the environmental forces that have an impact on it. Topics include the economic, cultural, legal and political environment and the international management, marketing, finance, exporting and importing functions. An in-depth study of doing business in a specific country is required.		No
1072	AP Computer Science A	1.0	2	This class is designed for students who plan to pursue a career that relies on computer technology. Completion of Introduction to Programming I and a strong math background will help assure success. Students will be learning JAVA, an excellent web-based programming language that is the current standard for AP Computer Science. Topics include: program development cycle, program syntax, writing code techniques, classes, data types, methods, conditionals, and repetition statements. Students will gain an in-depth knowledge of how computers execute programs. Students will be given plenty of classroom time to work on projects. Since the software is free, students also will be able to work at home. After the AP test, students will pick a topic of their choosing such as game programming, swing classes, and data management. Students are highly encouraged to take the AP exam in the spring.	Programming 1 or permission of instructor	Yes

Career/Technical Education

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1560	Allied Health1	3.0	2	This program is designed to provide the basic health-care skills necessary for an entry-level position in health care. Skills include CPR, STNA training (State Tested Nursing Assistant), pharmacology, and health career awareness. Students will learn to assist patients with daily living and fundamental tasks, assist in a pharmacy setting, and prepare sterile. Level 1 focuses on medical law and ethics, medical terminology, anatomy a physiology, assisting with patient care, state tested nursing assistant, patient education and CPR/First Aid. Career opportunities for students completing the Allied Health Program may include STNA, pharmacy tech, or home health aide.		No
1561	Allied Health 2	3.0	2	This program is designed to provide the basic health-care skills necessary for an entry-level position in health care. Skills include CPR, STNA training (State Tested Nursing Assistant), pharmacology, and health career awareness. Students will learn to assist patients with daily living and fundamental tasks, assist in a pharmacy setting, and prepare sterile. Level 2 of the course focuses on anatomy and physiology, pharmacology, administering medication, pharmacy technician and sterile environments. Career opportunities for students completing the Allied Health Program may include STNA, pharmacy tech, or home health aide.	successful completion of Level 1	No
1562	Auto Collision 1 – Willoughby-Eastlake Career Academy	3.0	2	Emphasizes repair techniques, including dent removal with hand and hydraulic tools, welding, brazing, shrinking, torch soldering, body fillers, paint preparation and spraying. Students will then apply what they have learned to work on automobiles.		No
1563	Auto Collision 2 – Willoughby-Eastlake Career Academy	3.0	2	Level 2 will focus on glass and automotive trim repairs, fiberglass construction, panel and sheet metal replacement, damage repair, frame, wheel, and body alignment, automotive electricity and vehicle painting. Successful students will be eligible for an apprenticeship program.	successful completion of Level I	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1564	Auto Services 1 – Willoughby-Eastlake Career Academy	3.0	2	The Automotive Service program is a “hands on” learning environment and experience is gained by performing many aspects of customer service. Students in the 1 st year of the Automotive Service program will be taught to use a computerized 4 wheel alignment machine, and computerized wheel balancer and gain experience with tire pressure monitoring systems. Students will also have the opportunity to receive a SP2 safety certificate and The Valvoline Motor Oil Basics Certificate. Students will remove and replace various steering and suspension components, brakes and exhausts systems and will use MIG welding and Oxy fuel torches.		No
1565	Auto Services 2 – Willoughby-Eastlake Career Academy	3.0	2	The Automotive Service program is a “hands on” learning environment and experience is gained by performing many aspects of customer service. 2 nd year students will use a variety of advanced computerized scan tools from Snap-On and Bosch to diagnose and repair drive train, emission, electrical issues such as Anti-Lock Brake systems and check engine lights. Students will be introduced to drive train, transmission and engine repair. During the second semester, students are encouraged to participate in an internship or work study program.	successful completion of Level 1	No
1566	Auto Service Technology 1 Lab/Related – Euclid	3.0	2	Students in this program will be trained in engine repair and performance, automatic transmission and transaxles, manual transmissions, drive trains, and axles, brakes, electrical systems, heating, and air conditioning. This two-year program offers one period of related theory in the classroom and three hours of lab practice on automobiles. In the second semester of the second year, students will begin early release to get to a job site in the automotive field.		No
1567	Auto Service Technology 2 Lab/Related – Euclid	3.0	2	Students in this program will be trained in engine repair and performance, automatic transmission and transaxles, manual transmissions, drive trains, and axles, brakes, electrical systems, heating, and air conditioning. This two-year program offers one period of related theory in the classroom and three hours of lab practice on automobiles. In the second semester of the second year, students will begin early release to get to a job site in the automotive field.	successful completion of Level 1	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1568	Business Administration and Management 1 Related - Mentor	1.0	2	The Business Administration and Management Program is designed to prepare students to plan, organize, direct and evaluate all or part of a business organization through the allocation and use of financial, human and material resources. This course challenges students by using the latest technology to examine the field of business administration and management. Students gain knowledge and skills in the following areas: management, business analysis, marketing, business law, communication skills, money and personal finance, economics, accounting, financial management, human resource management, information technology, and employability and career development.		No
1569	Business Administration and Management 2 Related – Mentor	1.0	2	The Business Administration and Management Program is designed to prepare students to plan, organize, direct and evaluate all or part of a business organization through the allocation and use of financial, human and material resources. This course challenges students by using the latest technology to examine the field of business administration and management. Students gain knowledge and skills in the following areas: management, business analysis, marketing, business law, communication skills, money and personal finance, economics, accounting, financial management, human resource management, information technology, and employability and career development.	successful completion of Level 1	No
1570	Business Administration and Management 2 Lab – Mentor	3.0	2	The Business Administration and Management Internship allows for dynamic, real-world application of the principles taught in the classroom. This supervised internship provides excellent insight in the educational requirements, cultural aspects, and skill level of specific career paths. During the second year of the program, students complete their graduation and college admission requirements in the morning and spend the afternoons gaining practical, supervised, paid part-time work experience.		No
1571	CAD/ Engineering Technology 1 – Mentor	3.0	2	This program prepares students for a career in operations in manufacturing industries. Emphasis is placed on problem-solving and critical-thinking skills. A CAD engineering technician is available to assist with the implementation of the manufacturing process from design to finished product. Technicians support the work of the engineer, utilizing theoretical knowledge of fundamental scientific, engineering, mathematical, or drafting design and principles.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1572	CAD/ Engineering Technology 2– Mentor	3.0	2	This program prepares students for a career in operations in manufacturing industries. Emphasis is placed on problem-solving and critical-thinking skills. A CAD engineering technician is available to assist with the implementation of the manufacturing process from design to finished product. Technicians support the work of the engineer, utilizing theoretical knowledge of fundamental scientific, engineering, mathematical, or drafting design and principles.	successful completion of Level 1	No
1573	CISCO 1– Euclid	3.0	2	Cisco Networking Technology prepares students for careers in network systems analysis, planning, and administration. Students gain the necessary skills to analyze network system needs from design, installation, maintenance, and management of network systems. Labs utilize Cisco routers and switches through which students learn how to set up ftp sites, email servers, VPN's and web-hosting services. The Cisco curriculum includes preparation for the Network+ certification. Upon completion of the two-year program, students are prepared to take the Cisco Certified Network Associate (CCNA) exam (Honors Level program) .		Yes
1574	CISCO 2– Euclid	3.0	2	Cisco Networking Technology prepares students for careers in network systems analysis, planning, and administration. Students gain the necessary skills to analyze network system needs from design, installation, maintenance, and management of network systems. Labs utilize Cisco routers and switches through which students learn how to set up ftp sites, email servers, VPN's and web-hosting services. The Cisco curriculum includes preparation for the Network+ certification. Upon completion of the two-year program, students are prepared to take the Cisco Certified Network Associate (CCNA) exam (Honors Level program) .	successful completion of Level 1	Yes
1575	CNC Manufacturing Technology 1 – Mentor	3.0	2	The CNC Manufacturing Program is designed to prepare students to learn about the manufacturing process from the design to the finished product. Students will learn CAD drawing techniques; use of measurement tools and hand tools; CNC set up and operation; CNC programming; SURFCAM software; 3-D solid modeling, geometry and trigonometry applications; quality control principals; and precision turning and milling.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1576	CNC Manufacturing Technology 2 – Mentor	3.0	2	The CNC Manufacturing Program is designed to prepare students to learn about the manufacturing process from the design to the finished product. Students will learn CAD drawing techniques; use of measurement tools and hand tools; CNC set up and operation; CNC programming; SURFCAM software; 3-D solid modeling, geometry and trigonometry applications; quality control principals; and precision turning and milling.	successful completion of Level 1	No
1577	Computer Information Systems 1– Mentor	3.0	2	This curriculum prepares students for high technology careers. Blending academic and technical subjects that emphasize problem-solving and critical-thinking skills, students will be instructed in computer programming, computer software applications, accounting applications, hardware organization and systems. Successful completion of this program may lead to a bachelor’s degree, internship programs, a two-year associate degree, and/or employment as an Information Systems Technician.		No
1578	Computer Information Systems 2– Mentor	3.0	2	This curriculum prepares students for high technology careers. Blending academic and technical subjects that emphasize problem-solving and critical-thinking skills, students will be instructed in computer programming, computer software applications, accounting applications, hardware organization and systems. Successful completion of this program may lead to a bachelor’s degree, internship programs, a two-year associate degree, and/or employment as an Information Systems Technician.	successful completion of Level 1	No
1579	Construction Management 1 Lab/Related – Mentor	3.0	2	The Construction Management program is a two-year high school and college career path linked to business, industry, and labor that insures a seamless pathway from high school to college to careers in Construction. It provides technical preparation in a career field such as construction laborer, general contractor, engineering technology; applied science; mechanical, industrial or practical art of the trade and applied business practices. The student will learn site development, managing the role of the supervisor, planning and coordination, renovation processes and hands-on construction applications.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1580	Construction Management 2 Lab/Related – Mentor	3.0	2	The Construction Management program is a two-year high school and college career path linked to business, industry, and labor that insures a seamless pathway from high school to college to careers in Construction. It provides technical preparation in a career field such as engineering technology; applied science; mechanical, industrial or practical art of the trade and applied business practices. The student will learn site development, managing the role of the supervisor, planning and coordination, renovation processes and hands-on construction applications. Students will have the opportunity for job shadowing and job placement during the second year of the program.	successful completion of Level 1	No
1581	Commercial Building Trades 1 – Willoughby-Eastlake Career Academy	3.0	2	Students will learn the skills necessary to meet the demand for a skilled work force in the field of construction. The program includes the fundamentals of construction safety, blueprint reading, site preparation, and training in carpentry, plumbing, wiring, roofing, drywall installation, and painting through project-based learning. The program provides basic skills in a variety of building trades. Career opportunities include carpenter, plumber, electrician, roofer, painter, general contractor.		No
1582	Commercial Building Trades 2 – Willoughby-Eastlake Career Academy	3.0	2	Students will learn the skills necessary to meet the demand for a skilled work force in the field of construction. The program includes the fundamentals of construction safety, blueprint reading, site preparation, and training in carpentry, plumbing, wiring, roofing, drywall installation, and painting through project-based learning. The program provides basic skills in a variety of building trades. Career opportunities include carpenter, plumber, electrician, roofer, painter, general contractor.	successful completion of Level 1	No
1583	Cosmetology 1 Lab– Brush	3.0	2	This two-year program involves related and practical experiences designed to assist the students in developing specific skills and scientific knowledge to be a licensed cosmetologist. Students who successfully complete the program can qualify to take the State Board Examination. Students will be required to purchase a beauty kit during both years along with two uniforms.		No
1584	Cosmetology 1 Related – Brush	0.5	2	This two-year program involves related and practical experiences designed to assist the students in developing specific skills and scientific knowledge to be a licensed cosmetologist. Students who successfully complete the program can qualify to take the State Board Examination. Students will be required to purchase a beauty kit during both years along with two uniforms.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1585	Cosmetology 2 Lab – Brush	3.0	2	This two-year program involves related and practical experiences designed to assist the students in developing specific skills and scientific knowledge to be a licensed cosmetologist. Students who successfully complete the program can qualify to take the State Board Examination. Students will be required to purchase a beauty kit during both years along with two uniforms.	successful completion of Level 1	No
1586	Cosmetology 2 Related – Brush	0.5	2	This two-year program involves related and practical experiences designed to assist the students in developing specific skills and scientific knowledge to be a licensed cosmetologist. Students who successfully complete the program can qualify to take the State Board Examination. Students will be required to purchase a beauty kit during both years along with two uniforms.	successful completion of Level 1	No
1587	Criminal Justice 1 – Euclid	3.0	2	This program is for students interested in the criminal justice field from private security to public police. Students explore the private sector of police work such as private security, store detectives, and other law enforcement duties. Students go through a training program which matches the private security academy training.		No
1588	Criminal Justice 2 - Euclid	3.0	2	This program is for students interested in the criminal justice field from private security to public police. Students explore the private sector of police work such as private security, store detectives, and other law enforcement duties. Students go through a training program which matches the private security academy training.	successful completion of Level 1	No
1589	Culinary Arts 1– Euclid	3.0	2	The Culinary Arts program offers training in food-related occupations to juniors and seniors with interest and aptitude for the food service industry. During the first year students are introduced to the food industry, basic cooking, equipment, safety and sanitation, pastas, breads, food presentation, restaurant preparation, and other topics.		No
1590	Culinary Arts 2– Euclid	3.0	2	In the second year, students learn about stocks, sauces, soups, meats, poultry, fish, seafood salads, dressings, menu planning, restaurant operation, and more.	successful completion of Level 1	No
1591	Early Childhood Education 1 Lab/Related – Mentor	3.0	2	During the first year, students participate in a supervised in-school laboratory located on the school premises. Students will observe the development of children and apply this learning while assisting in the preschool classroom.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1592	Early Childhood Education 2 Lab/Related – Mentor	3.0	2	In the second year, students may be able to co-op. Half of the day is spent in classes, and the rest of the day working at child care facilities for typical and special needs children. Seniors plan and present lessons at their job sites.	successful completion of Level 1	No
1593	Health Information Management 1 Willoughby-Eastlake Career Academy	3.0	2	Health Information Management, or Health Informatics, is a fast-growing career in the health care pathway. It is the practice of maintenance and care of health records in hospitals, physician's offices, clinics, health departments, health insurance companies, and other facilities that provide health care. Students will collect and analyze health care data to prepare medical records for medical settings and insurance reimbursement. Topics will include employability skills, communication skills, managing patient information, medical ethics, records management, and medical coding. Career opportunities include Data Analyst, Clinical Researcher, Public Health Nurse, Risk Manager of a Hospital System, Hospital Network Administrator, Epidemiologist, Blood Bank Coordinator, Electronic medical records, and insurance underwriter.		No
1594	Health Information Management 2 Willoughby-Eastlake Career Academy	3.0	2	Health Information Management, or Health Informatics, is a fast-growing career in the health care pathway. It is the practice of maintenance and care of health records in hospitals, physician's offices, clinics, health departments, health insurance companies, and other facilities that provide health care. Students will collect and analyze health care data to prepare medical records for medical settings and insurance reimbursement. Topics will include employability skills, communication skills, managing patient information, medical ethics, records management, and medical coding. Career opportunities include Data Analyst, Clinical Researcher, Public Health Nurse, Risk Manager of a Hospital System, Hospital Network Administrator, Epidemiologist, Blood Bank Coordinator, Electronic medical records, and insurance underwriter.	successful completion of Level 1	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1595	Hospitality and Lodging 1 – Willoughby-Eastlake Career Academy	3.0	2	This program will prepare individuals for entry level employment and post-secondary education in pathways that relate to hospitality management, restaurant and food/beverage services, lodging services, travel and tourism, recreation, amusement, and attractions. Guest speakers from the industry and field experiences are included in regular class time. Certifications available through this program include: Guest Service Gold (American Hotel and Lodging Educational Institute), Workplace Safety and Health (National Institute for Occupational Safety and Health), Person in Charge (Lake County Health Dept.), Teenage Restaurant Worker Safety (Occupational Health and Safety Administration). Topics include customer service, lodging occupations, food safety & sanitation, food/beverage/restaurants, housekeeping & laundry, hospitality marketing, entrepreneurship, travel services, front office operations, event planning, sports & entertainment jobs, and sales.		No
1596	Hospitality and Lodging 2 - Willoughby-Eastlake Career Academy	3.0	2	This program will prepare individuals for entry level employment and post-secondary education in pathways that relate to hospitality management, restaurant and food/beverage services, lodging services, travel and tourism, recreation, amusement, and attractions. Guest speakers from the industry and field experiences are included in regular class time. Seniors are permitted to work second semester during program hours with permission and proper paperwork completed. Certifications available through this program include: Guest Service Gold (American Hotel and Lodging Educational Institute), Workplace Safety and Health (National Institute for Occupational Safety and Health), Person in Charge (Lake County Health Dept.), Teenage Restaurant Worker Safety (Occupational Health and Safety Administration). Topics include customer service, lodging occupations, food safety & sanitation, food/beverage/restaurants, housekeeping & laundry, hospitality marketing, entrepreneurship, travel services, front office operations, event planning, sports & entertainment jobs, and sales.	successful completion of Level 1	No
1597	Information Technology Services 1 – Mentor	3.0	2	ITS prepares students to build, evaluate, troubleshoot, and maintain computers, networks, and electronic products and systems by using specialized skills and equipment to ensure product quality.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1598	Information Technology Services 2 – Mentor	3.0	2	Students will continue preparing for an A+ certification in Computer Repair Technology, Network+ certification in Computer Networking Technology, applying effective related employability skills and testing, building, maintaining and installing products/systems.	successful completion of Level 1	No
1599	Interactive Media 1 – Mentor	3.0	2	The Interactive Media curriculum emphasizes problem-solving and critical-thinking skills to teach students to apply various techniques to produce media for advertising, corporate communications departments, educational institutions, and the information and entertainment industries. The program prepares students for further education at a two- or four-year college. Topics covered at Mentor High school are: television production, computer graphics, interactive media production, graphic design for production, recording, digital imaging, digital audio technology, photography, studio equipment maintenance, web page design, content research, application/instruction design, and writing for interactive media.		No
1600	Interactive Media 2 – Mentor	3.0	2	The Interactive Media curriculum emphasizes problem-solving and critical-thinking skills to teach students to apply various techniques to produce media for advertising, corporate communications departments, educational institutions, and the information and entertainment industries. The program prepares students for further education at a two- or four-year college. Topics covered at Mentor High school are: television production, computer graphics, interactive media production, graphic design for production, recording, digital imaging, digital audio technology, photography, studio equipment maintenance, web page design, content research, application/instruction design, and writing for interactive media.	successful completion of Level 1	No
1601	Landscape and Turf Management 1 – Willoughby-Eastlake Career Academy	3.0	2	This program will provide opportunities for students to apply their creativity to the natural environment of plants and landscaping and an introduction to the green industry. Students gain the skills of plant physiology, plant control, landscape design, identification and selection of landscape plants, establishing and maintaining landscape and turf areas, designing and installing ‘hardscapes’ (lighting, water systems, features)and operation of machinery and equipment. Students will also have an opportunity to design, select, and construct landscapes as well as manage and maintain turf areas. Career opportunities include landscape architect, golf course greens keeper, landscaper, grounds maintenance.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1602	Landscape and Turf Management 2 – Willoughby-Eastlake Career Academy	3.0	2	This program will provide opportunities for students to apply their creativity to the natural environment of plants and landscaping and an introduction to the green industry. Students gain the skills of plant physiology, plant control, landscape design, identification and selection of landscape plants, establishing and maintaining landscape and turf areas, designing and installing ‘hardscapes’ (lighting, water systems, features) and operation of machinery and equipment. Students will also have an opportunity to design, select, and construct landscapes as well as manage and maintain turf areas. Career opportunities include landscape architect, golf course greens keeper, landscaper, grounds maintenance.	successful completion of Level 1	No
1603	Licensed Practical Nursing 1 – Willoughby-Eastlake Career Academy	3.0	2	Practical Nursing program prepares students for the NCLEX-PN (state board examination), which licenses them to practice practical nursing. This program introduces the students to anatomy, physiology, microbiology, nursing fundamentals, nursing skills, nutrition, and medical math. Clinical experiences in local hospitals and skilled nursing facilities help prepare graduates for entry-level practical nursing positions in any healthcare setting.	successful completion of Algebra 1 and enrolled in Chemistry Students must pass a practical nursing entrance exam in order to apply for the program (per State Board of Nursing requirement).	No
1604	Licensed Practical Nursing 2 – Willoughby-Eastlake Career Academy	3.0	2	Practical Nursing program prepares students for the NCLEX-PN (state board examination), which licenses them to practice practical nursing. This program introduces the students to anatomy, physiology, microbiology, nursing fundamentals, nursing skills, nutrition, and medical math. Clinical experiences in local hospitals and skilled nursing facilities help prepare graduates for entry-level practical nursing positions in any healthcare setting.	successful completion of Level 1	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1605	Mobile Apps & Digital Development 1	3.0	2	This curriculum prepares students for high technology careers. Blending academic and technical subjects that emphasize problem-solving and critical-thinking skills, students will be instructed in computer programming, computer software applications, accounting applications, hardware organization and systems. Successful completion of this program may lead to internship programs, a two-year associate degree, employment as an Information Systems Technician, and/or a bachelor's degree.		No
1606	Mobile Apps & Digital Development 2	3.0	2	This curriculum prepares students for high technology careers. Blending academic and technical subjects that emphasize problem-solving and critical-thinking skills, students will be instructed in computer programming, computer software applications, accounting applications, hardware organization and systems. Successful completion of this program may lead to internship programs, a two-year associate degree, employment as an Information Systems Technician, and/or a bachelor's degree.	successful completion of Level 1	No
1607	Medical Assisting 1– Willoughby-Eastlake Career Academy	3.0	2	The Medical Assisting Program is designed to prepare students to handle both clinical duties and administrative responsibilities in a variety of health care settings such as a doctor's office, medical center or medical clinic. Students will learn to schedule appointments, maintain records, measure vital signs, measure and record height/weight, assist with examinations, and perform CPR and first aid.		No
1608	Medical Assisting 2– Willoughby-Eastlake Career Academy	3.0	2	The Medical Assisting Program is designed to prepare students to handle both clinical duties and administrative responsibilities in a variety of health care settings such as a doctor's office, medical center or medical clinic. Students will learn to schedule appointments, maintain records, measure vital signs, measure and record height/weight, assist with examinations, and perform CPR and first aid.	successful completion of Level 1	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1609	Marketing and Entrepreneurship 1 –Mentor	1.0	2	This course challenges students by using the latest technology to examine the exciting field of marketing. The curriculum, activities and resources utilized in this course incorporate technology and the Internet with the fields of travel, tourism, and recreation marketing; business management and small business/entrepreneurship; fashion merchandising; business administrations; and sports and entertainment marketing. Students demonstrate the ability to use content and apply knowledge to real-world situations. Topics include economics, marketing research and decision making, domestic and international markets and influences, human resource development, ethics management, and financial analysis. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies.		No
1610	Marketing and Entrepreneurship 2 Related - Mentor	1.0	2	This course challenges students by using the latest technology to examine the exciting field of marketing. The curriculum, activities and resources utilized in this course incorporate technology and the Internet with the fields of travel, tourism, and recreation marketing; business management and small business/entrepreneurship; fashion merchandising; business administrations; and sports and entertainment marketing. Students demonstrate the ability to use content and apply knowledge to real-world situations. Topics include economics, marketing research and decision making, domestic and international markets and influences, human resource development, ethics management, and financial analysis. Marketing simulations, projects, teamwork, DECA leadership activities, meetings, conferences, and competitions provide many opportunities for application of instructional competencies.	successful completion of Level 1	No
1611	Marketing and Entrepreneurship 2 Lab – Mentor	3.0	2	The Marketing Internship allows for dynamic, real-world application of the principles taught in the classroom. This supervised internship provides excellent insight into the educational requirements, cultural aspects, and skill level of specific career paths. During the second year of the program. Students complete their graduation and college admission requirements in the morning and spend the afternoons gaining practical, supervised, paid part-time work experience. Sample occupations include: supply-chain management, marketing information management, pricing, product-service management, marketing communications, retailing and selling.		No

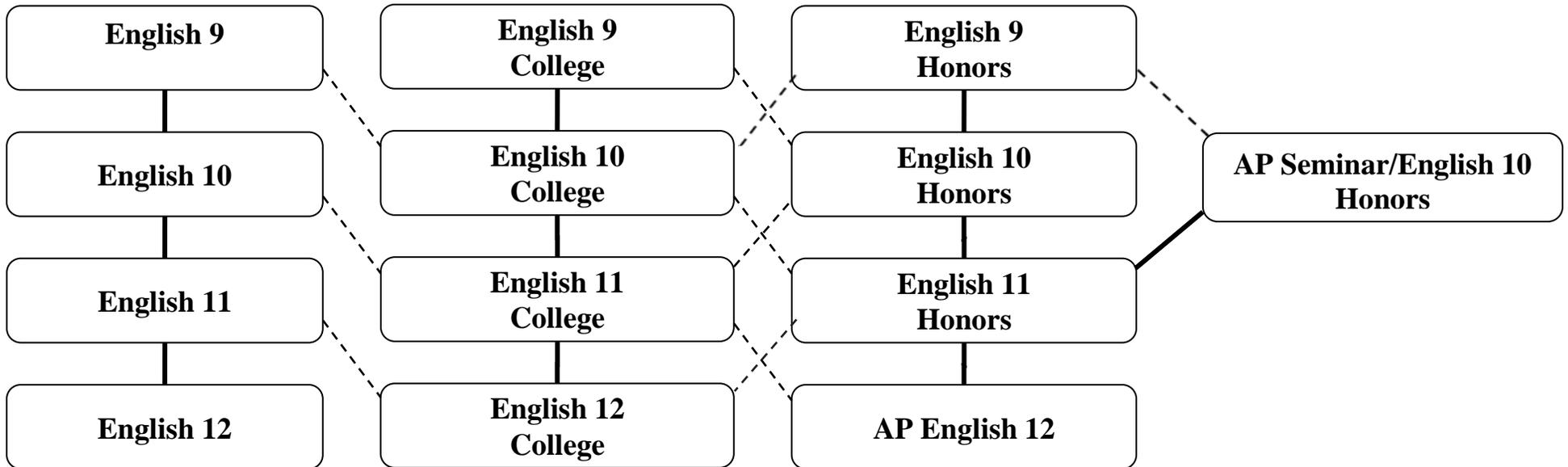
Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1612	Production Welding 1 – Willoughby-Eastlake Career Academy	3.0	2	Production Welding teaches students several welding processes, using a variety of materials and techniques. Welding processes include: Arc, Oxy-Acetylene welding and cutting, MIG, TIG and Plasma cutting. Shop safety rules and practices, as well as the use of many hand tools, are included in classroom instruction and are practiced in the lab setting. Career opportunities for students who complete this program include: factory welder, production welder, welder cutter, and welder fitter.		No
1613	Production Welding 2 – Willoughby-Eastlake Career Academy	3.0	2	Production Welding teaches students several welding processes, using a variety of materials and techniques. Welding processes include: Arc, Oxy-Acetylene welding and cutting, MIG, TIG and Plasma cutting. Shop safety rules and practices, as well as the use of many hand tools, are included in classroom instruction and are practiced in the lab setting. Career opportunities for students who complete this program include: factory welder, production welder, welder cutter, and welder fitter.	successful completion of Level 1	No
1614	Visual Communications 1 Lab/Related–Euclid	3.0	2	Skills in VIS/COM may lead to career opportunities in art departments of advertising agencies, commercial art supplies, art and display departments of major department stores, advertising departments or newspapers, sign and silk-screen companies, photographic studios and suppliers, package designing and greeting card companies.		No
1615	Visual Communications 2 Lab/Related–Euclid	3.0	2	Skills in VIS/COM may lead to career opportunities in art departments of advertising agencies, commercial art supplies, art and display departments of major department stores, advertising departments or newspapers, sign and silk-screen companies, photographic studios and suppliers, package designing and greeting card companies.	successful completion of Level 1	No
1616	Welding Technology 1 Willoughby-Eastlake Career Academy	3.0	2	Career opportunities in welding include welding operator, welder, welder-fitter, specialist welder, welder supervisor, welding analyst, welding technician, inspector, welding foreperson, job shop, welding engineer, welding research engineer, sales engineer, and technical writer. The welding program provides training in a variety of areas such as arc, acetylene, heliarc, and MIG welding, straight edge cutting, pattern cutting, manual curing, brazing, and general shop practices. The welding lab is equipped to teach all forms of welding presently utilized in construction and industry. Some job experience activities are included in the second year.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1617	Welding Technology 2–Willoughby-Eastlake Career Academy	3.0	2	Career opportunities in welding include welding operator, welder, welder-fitter, specialist welder, welder supervisor, welding analyst, welding technician, inspector, welding foreperson, job shop, welding engineer, welding research engineer, sales engineer, and technical writer. The welding program provides training in a variety of areas such as arc, acetylene, heliarc, and MIG welding, straight edge cutting, pattern cutting, manual curing, brazing, and general shop practices. The welding lab is equipped to teach all forms of welding presently utilized in construction and industry. Some job experience activities are included in the second year.	successful completion of Level 1	No
1618	English 11 College	1.0	2	Career Technical Education (CTE) College English seeks to create a balanced experience of technical/professional writing and the traditional college prep language arts curriculum. Its goal is to prepare students for either a two- or four-year college program, as well as prepare for the transition from school to work. English is taught in collaboration with the technology programs. Classes include a study of literature; a concentrated focus on reading, writing, and speaking skills; and technical/professional writing. All skills and activities have the focus of preparing students for post-secondary study and the workplace. This course aligns to the College and Career Readiness Anchor Standards and Ohio’s new learning standards for English Language Arts. Students enrolled in CAD/Engineering Technology, CNC Manufacturing Technologies, Computer Information Systems, Construction Management and Information Technology Services will enroll in this course.		No
1619	English 11 College	1.0	2	Career Technical Education (CTE) College English seeks to create a balanced experience of technical/professional writing and the traditional college prep language arts curriculum. Its goal is to prepare students for either a two- or four-year college program, as well as prepare for the transition from school to work. English is taught in collaboration with the technology programs. Classes include a study of literature; a concentrated focus on reading, writing, and speaking skills; and technical/professional writing. All skills and activities have the focus of preparing students for post-secondary study and the workplace. This course aligns to the College and Career Readiness Anchor Standards and Ohio’s new learning standards for English Language Arts. Students enrolled in Business Administration & Management, Early Childhood Education, Interactive Media and Marketing & Entrepreneurship will enroll in this course.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1620	English 12 College	1.0	2	Career Technical Education (CTE) College English seeks to create a balanced experience of technical/professional writing and the traditional college prep language arts curriculum. Its goal is to prepare students for either a two- or four-year college program, as well as prepare for the transition from school to work. English is taught in collaboration with the technology programs. Classes include a study of literature; a concentrated focus on reading, writing, and speaking skills; and technical/professional writing. All skills and activities have the focus of preparing students for post-secondary study and the workplace. This course aligns to the College and Career Readiness Anchor Standards and Ohio's new learning standards for English Language Arts. Students enrolled in CAD/Engineering Technology, CNC Manufacturing Technologies, Computer Information Systems, Construction Management and Information Technology Services will enroll in this course.		No
1621	English 12 College	1.0	2	Career Technical Education (CTE) College English seeks to create a balanced experience of technical/professional writing and the traditional college prep language arts curriculum. Its goal is to prepare students for either a two- or four-year college program, as well as prepare for the transition from school to work. English is taught in collaboration with the technology programs. Classes include a study of literature; a concentrated focus on reading, writing, and speaking skills; and technical/professional writing. All skills and activities have the focus of preparing students for post-secondary study and the workplace. This course aligns to the College and Career Readiness Anchor Standards and Ohio's new learning standards for English Language Arts. Students enrolled in Business Administration & Management, Early Childhood Education, Interactive Media and Marketing & Entrepreneurship will enroll in this course.		No
1622	Physics 1 - Mentor	1.0	2	Applied Physics/Principles of Technology is a two-year, applied-physics curriculum designed to present the discipline of physics in the context of how it is practically experienced in the student's career technical course. Students enrolled in CAD/Engineering Technology, CNC Manufacturing Technologies, Construction Management and Information Technology Services will enroll in this course.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1623	Physics 2 - Mentor	1.0	2	Applied Physics/Principles of Technology is a two-year, applied-physics curriculum designed to present the discipline of physics in the context of how it is practically experienced in the student's career technical course. Students enrolled in CAD/Engineering Technology, CNC Manufacturing Technologies, Construction Management and Information Technology Services will enroll in this course.		No
	Career-Based Intervention (CBI) – Mentor			The goals of the Career-Based Intervention (CBI) are designed to help students improve academic competence, graduate from high school, develop employability skills, implement a career plan and participate in a career pathway in preparation for post-secondary education and/or career. The CBI program provides a combination of educational and work-based learning opportunities for student success. Students must be referred to the program by their guidance counselor.	Counselor referral	No
1990	Job Training Program (JTP) – Willoughby-Eastlake Career Academy	3.0	2	JTP emphasizes development of entry-level employability skills in order for students to be successful in the workplace. Training is designed to enhance each individual student/worker's potential. Under supervision, students receive hands-on, real work experiences while developing at their own pace. The goal for all students is to develop safety skills, knowledge, attitudes and job skills in order to get and keep a job. Classroom instruction and learning activities focus on basic skills and attitudes associated often with assembly production work, specific skill work and department team work. Some students may develop sufficient job skills that allow them to transfer to another career program for more advanced skill training. Career opportunities for students include: machine operator, shipping/receiving clerk, production assembler, quality control inspector, laundry room assistant, and maintenance assistant.	Counselor recommendation	No

English/Language Arts Courses Flowchart



Electives or 7th Semester Graduates:

Speech (.50 credit)
 Drama as Literature (.50 credit)
 Journalism (1.0 credit)

English/Language Arts

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1303	English 9	1.0	2	This course is designed to solidify students' foundational reading and writing skills. Students will read nonfiction pieces; study elements of short story, classic mythology and poetry. Students will be introduced to Shakespearean drama and will complete novel study. The course will focus on developing writing skills through weekly grammar instruction and support to organize a thesis-driven, five-paragraph essay. Students can expect to do informal and formal class presentations and short-term research projects. This course aligns to the college and Career Readiness Anchor standards and Ohio's new learning standards for English Language Arts.	English 8	No
1304	English 9 College	1.0	2	This course expands the sequential development of communication skills: reading, writing, speaking, listening, and thinking. The study of nonfiction, prose, poetry, and drama continues with greater emphasis on literary concepts and classical works. The writing process continues with more complex skills: comparison/contrast, narration and personal journal. Course requirements include both formal and informal oral presentations, developing a thesis, and writing a research paper.	English 8	No
1305	English 9 Honors	1.0	2	This is an accelerated course that places emphasis on interpretive reading and critical thinking skills. Composition activities include further mastery of usage and mechanics, more complex writing skills, and the elements of style. The study of nonfiction, prose, poetry, and drama focuses on how form and content unite to create a memorable piece of literature. Course requirements include both formal and informal oral presentations, developing a thesis, and writing a research paper.	Teacher recommendation	Yes
1312	English 10	1.0	2	This course is designed to expand students' reading, writing, and speaking skills and to prepare students for all post-secondary options, including two-year or four-year college, technical training or on-job training. English 10 offers students with a blend of rigorous academic requirements, as well as intervention practices for struggling students. This course will require the completion of a research paper as well as expository and persuasive writing. The emphasis is a mix of classical and contemporary literature as well as nonfiction. This course aligns to the College and Career Readiness Anchor Standards and Ohio's new learning standards for English Language Arts.	English 9	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1313	English 10 College	1.0	2	Students will encounter increasingly challenging content-area and literary texts. Texts will cover a broad range of fiction and nonfiction selections from around the world. Students will use context clues to identify meaning of new vocabulary with emphasis on synonyms, suffixes, root words, etc. Students at this level will deliver research-based presentations and write formal expository, narrative, and persuasive extended responses and compositions that support a clear position about a topic with special attention on citing textual evidence to support claims developed through analyzing texts.	English 9	No
1314	English 10 Honors	1.0	2	This is an accelerated course that emphasizes classical American and World literature as well as pieces of nonfiction in varying lengths. The class includes frequent expository writing and nightly homework. Course requirements include graded class discussions, oral presentations, a formal research paper, and summer reading.		Yes
1315	AP Seminar/English 10 Honors	1.0	2	AP Seminar/English 10 honors is the foundational course for the AP Capstone program. Students will have opportunities to think critically and creatively, research, explore, pose solutions, develop arguments, collaborate, and communicate using various media. Students will explore real world issues through a cross-curricular lens by applying concepts from other courses and consider multiple points of view. Students will read articles, research studies and foundational and philosophical texts; listen and view speeches, broadcasts and personal accounts; experience artistic and literary works to gain a rich appreciation and understanding of issues. Students are assessed through two course performance tasks that include a team project and presentation, a research-based essay and presentation, and a written exam.	English 9 Honors	Yes
1316	English 11	1.0	2	English 11 is designed to expand students' reading, writing, and speaking skills. This course is designed to prepare students for all post-secondary options; including two-year or four-year college, technical training, or on-job training. This course offers students with a blend of rigorous academic requirements, as well as intervention practices for struggling students. This course will require the completion of a research paper, an expository essay, a persuasive essay, and a narrative. This course will cover selections from classic and contemporary American literature as well as nonfiction. This course aligns to the College and Career Readiness Anchor Standards and Ohio's new learning standards for English Language Arts.	English 10	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1317	English 11 College	1.0	2	English 11 College helps the student consolidate the skills and knowledge needed for success in a two- or four-year college. This course is aligned to Ohio's new learning standards and emphasizes reading fiction and nonfiction American literature and writing. Students will have nightly homework; a three- to five-page research paper is required as well as formal oral presentations and assignments related to the summer reading.	English 10	No
1318	English 11 Honors	1.0	2	This is a rigorous course emphasizing interpretation, analysis, and critical thinking. Students are expected to read and write independently. The curricular focus is American literature and nonfiction texts. Written work will include: documented literary analyses using primary and secondary sources; in-class essays; poetry explications; expository and persuasive essays; creative pieces; and short- and long-term research projects. Nightly homework is required and summer reading is assigned.		Yes
1320	English 12	1.0	2	Students will further develop effective communication skills in this course. The emphasis is a mix of classical and contemporary literature as well as career planning.	English 11	No
1321	English 12 College	1.0	2	English 12 College helps the student consolidate the skills and knowledge needed for success in a two- or four-year college. The course emphasizes analysis of both fiction and nonfiction texts. Course requirements include a research paper, formal essays, and oral presentations. Students will read and write independently and will be expected to come prepared to participate in class discussions and various individual and small group assignments. The course will begin with assignments related to the summer reading, and nightly homework will be given throughout the year.	English 11	No
1349	AP English 12 (Literature & Composition)	1.0	2	This accelerated, college-level course is designed to prepare students to pass the AP Literature and Composition Examination prepared by the College Entrance Examination Board. It emphasizes the interpretation and analysis of major works of literary merit and their influence on humanity. Studies include prose, poetry, and dramatic works of fiction. Advanced techniques of expository writing are stressed. Students are expected to read critically so that they may write persuasive analytical literary arguments on a regular basis. Requirements include: nightly reading homework; completion of a ten- to twelve-page research paper critiquing a major work of literature; participation in class discussion; and formal and informal class presentations. Summer reading is also assigned.		Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1336	Drama as Literature	.50	1	The focus of this course is to provide an introduction to drama and the theatre as an enriching experience and art form. Areas of study and analysis include full-length plays, one-act plays, monologues, history of drama, improvisation, pantomime, blocking, staging, directing, and set design. Assignments and analysis in this course will blend individual, partner, and group activities. By the end of this course, students will know the basics of what it takes to competently evaluate, understand the language of, perform, and appreciate drama.		No
1343	 Journalism	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students gain firsthand experience writing news, sports, and feature articles and following proper journalism guidelines. The activities and assignments simulate an actual newsroom. Open to students in Grades 10-12.		No
1342	Speech	.50	1	Students will be taught a variety of interpersonal speaking skills with a strong focus on public speaking. Emphasis is given to preparing and presenting a variety of speeches: demonstrations, informative, persuasive, and impromptu. Students are required to write and present all speeches.		No

Family and Consumer Sciences

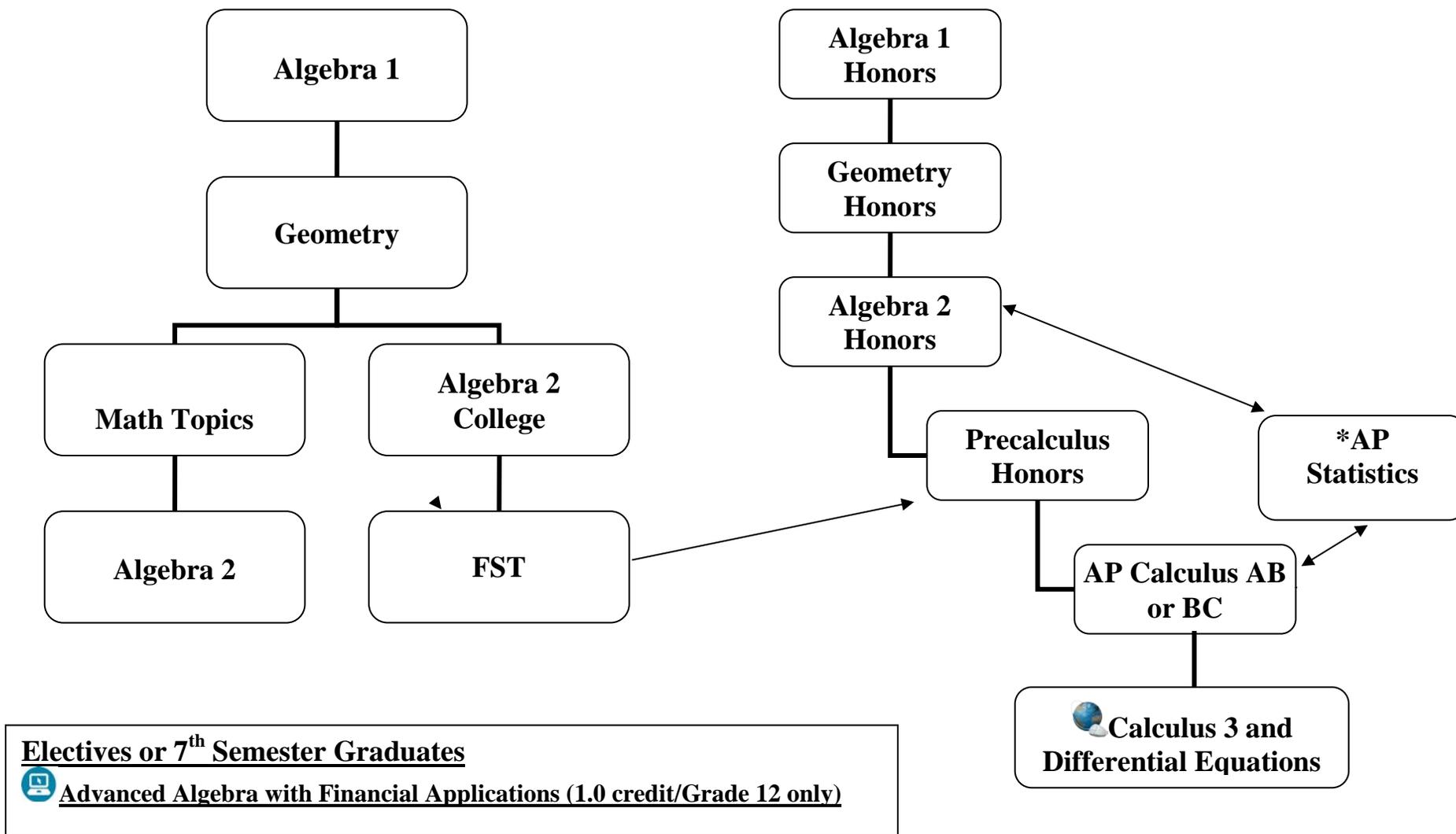
Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1228	Family Living	.50	1	Issues affecting families throughout the life cycle are explored in Family Living. Topics include: marriage readiness, divorce, working with and understanding needs of children and the elderly, starting family traditions, strategies to help balance work and family responsibilities, family law, community agencies supporting families, and much more. This is a great class for any student considering a career in social sciences, nursing, or family counseling.		No
1214	Gourmet Foods	.50	1	This course gives students experience preparing a variety of dishes using an array of equipment, garnishing tools, and techniques. Weekly gourmet lab experiences include making homemade pasta, desserts, hors d'oeuvres; and preparing, plating, and presenting foods. Students will create a menu for a gourmet restaurant. This course is recommended for any student who would like to build basic culinary arts knowledge and skills and is especially appropriate for students interested in a culinary arts career. Fee required.		No
1232	L.I.F.E. (Living Independently through Financial Education)	.50	1	L.I.F.E. is a course that prepares students to manage their personal and family finances. Hands-on, engaging activities help students apply what they are learning to their personal lives. Students learn how to prioritize their finances and practice making budget-based decisions related to food, housing, entertainment, and other personal and family needs.		No
1216	International Foods	.50	1	This course will take students on a tour of the world to examine the diverse foods, cultures, and customs of such countries as Great Britain, Italy, France, Germany and Japan. Examining the foods, agriculture, and people within the various regions of the United States is also included. This course is recommended for students who want to learn to cook a variety of internationally based foods and/or have an interest in a career, such as international business, where knowledge of cultures from around the world would be beneficial. Fee required.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1226	Parenting and Child Development	.50	1	This course examines the responsibilities that come with caring for a child and general child development. Students will have the opportunity to participate in a parenting simulation involving a <i>Baby Think it Over</i> ® infant simulator. Students will learn how children develop from birth through early childhood. Students will gain information related to skills needed to help children be successful throughout early childhood. This is a great course for students interested in any career related to children or early childhood education.		No
1234	Choices	.50	1	This course is designed to help teens prepare for the challenges and choices they face in school, work, and home life. Students explore various problems relevant to teens today, such as peer pressure, dating relationships, and risky behaviors. Students will look at strategies to manage stress and conflict, improve self-esteem, build healthy relationships, and improve the way they communicate with others. Career exploration, basic employability skills, and portfolio readiness are also integral parts of this class.		No
1208	Sports Nutrition	.50	1	This course teaches students how eating a nutritious, well-balanced diet can enhance sports performance and muscle recovery time, prevent disease, and promote health. Students also have an opportunity to learn how to cook healthy foods in weekly cooking labs. Lab examples include preparing energy bars, recovery shakes, sports salad, calzones, etc. This course is recommended for all students interested in nutrition and health, both personally and as a future career option. Fee required.		No

Health and Physical Education

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1172	 Health	.50	1	 THIS IS A FULLY ONLINE COURSE. This course provides the student with information and practical solutions to health issues relevant to adolescents in high school. The emphasis is placed on the development of individual "wellness" through an understanding and awareness of one's physical, mental, and social self. Course material during the 18 weeks deals with nutrition, mental health, family life and human sexuality, chemical substance use and abuse, infectious and non-infectious diseases, CPR, and safety and first-aid.		No
1151	Physical Education 9	.25	1	This course combines lifetime fitness and recreational activities. Students will engage in a variety of activities designed to help them establish a foundation for a lifetime of health and wellness.		No
1162	Physical Education 10	.25	1	The intent of the class is to give students the opportunity for competition and to teach the values of sports etiquette, fair play, hard work, and teamwork by placing students in the roles of player, coach, official, statistician and teammate. In Sport Education, students will experience flag football, indoor soccer, and volleyball (fall); students will experience volleyball, basketball, and softball (spring).	Physical Education 9	No
1163 1164	Conditioning	.25	1	This course is designed to prepare athletes for their individual sports seasons. AM Conditioning 6:45 am – 8:10 am / PM Conditioning 1:38 pm – 3:00 pm	No	No
1164F	Conditioning (Freshmen only)	.25	1	This course is designed to prepare athletes for their individual sports seasons. AM Conditioning 6:45 am – 8:10 am / PM Conditioning 1:38 pm – 3:00 pm Open to students in Grade 9.	Freshman status	No
1165 G	Conditioning (Girls only)	.25	1	This course is designed to prepare athletes for their individual sports seasons. NOTE: AM Conditioning 6:45 am – 8:10 am / PM Conditioning 1:38 pm – 3:00 pm	No	No

Mathematics Courses Flowchart



*AP Statistics may be taken at the same time as Algebra 2 Honors, Precalculus Honors or Calculus.

Mathematics

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1355	Algebra 1	1.0	2	This course provides the basic foundation of algebraic skills such as: operations with rational, irrational, and real numbers; simplifying expressions; and interpreting linear models. In addition, this course includes manipulating, solving and graphing equations and systems of equations. Linear, exponential, and quadratic functions and descriptive statistics are also explored.		No
1352	Algebra 1 Honors	1.0	2	This advanced course will focus on understanding the patterns of algebraic thinking and the application of that thinking to solve real-world problems. Students will learn operations with rational, irrational, and real numbers, simplifying expressions, and interpreting linear models. In addition, this course includes manipulating, solving, and graphing equations as well as inequalities. Systems of equations and inequalities, linear, exponential, quadratic, and absolute value functions as well as descriptive statistics are also explored.	Teacher recommendation	Yes
1360	Algebra 2	1.0	2	This course builds on the topics presented in Algebra 1, Geometry and Math Topics. The algebra portion of the course covers quadratic, polynomial, exponential, logarithmic, rational and radical functions. The trigonometry portion of the course introduces radian measure, the unit circle and basic trigonometric identities. The statistics portion of the course covers measures of central tendency, normal distributions and probability distributions. Only students who have passed the Math Topics course are eligible to take this class.	Math Topics	No
1363	Algebra 2 College	1.0	2	This course builds on the topics presented in Algebra 1 and Geometry. The algebra portion of the course covers quadratic, polynomial, exponential, logarithmic, rational and radical functions. The trigonometry portion of the course introduces radian measure, the unit circle and basic trigonometric identities. The statistics portion of the course covers measures of central tendency, normal distributions and probability distributions.	A grade of a "C" or higher in Algebra 1 and Geometry or teacher recommendation	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1364	Algebra 2 Honors	1.0	2	This course builds on the topics presented in Algebra 1 Honors and Geometry Honors. The algebra portion of the course covers quadratic, polynomial, exponential, logarithmic, rational and radical functions. The trigonometry portion of the course introduces radian measure, the unit circle and basic trigonometric identities. The statistics portion of the course covers measures of central tendency, normal distributions and probability distributions. This course will also explore sequences and series including infinite series.	Geometry Honors or teacher recommendation	Yes
1374	 Advanced Algebra with Financial Applications	1.0	2	 THIS IS A FULLY ONLINE COURSE Students explore topics such as saving money, spending money, and dealing with debt. Formulas to determine account balances, monthly payments, and total costs are evaluated and applied. Incorporating real-world scenarios, students learn about mortgages, investments, and retirement, which serves as a foundation for making future financial decisions. Open to students in Grade 12.	Teacher recommendation	No
1379	AP Calculus AB	1.0	2	This course is an introduction to college level mathematics and includes both differential and integral calculus. Topics of study include: limits of functions, the derivative and applications of the derivative, the definite integral, the transcendental functions, and methods and applications of integration. Students who successfully complete the AP Calculus Exam are eligible for advanced placement at college and /or college math credit.	Precalculus Honors	Yes
1366	AP Calculus BC	1.0	2	This course is comparable to two semesters of college calculus. In addition to topics covered in AP Calculus AB, this course explores Taylor series and calculus used with parametric and polar functions. In addition to a thorough and in-depth study in calculus, students are assisted in preparing themselves to take the AP Calculus Exam. Students who successfully complete the AP Calculus Exam are eligible for advanced placement at college and/or college math credit.	A grade of an "A" in Precalculus Honors, Algebra 2 and Geometry or teacher recommendation	Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1381	 Calculus 3 and Differential Equations	1.0	2	 THIS IS A DISTANCE LEARNING COURSE. In this course, students will continue to study differential and integral calculus. Topics include differential calculus of functions of more than one variable, directional derivative, gradients, applications of partial derivatives, multiple integration, and line integrals. Open to students in Grade 12.	successful completion of Calculus BC or teacher approval and meet criteria for College Credit Plus	Yes
1377	AP Statistics	1.0	2	This course is an intense year-long study in elementary functions and statistics and is comparable to courses offered at the college or university level. Both the breadth and depth of study are more rigorous than that found in the general statistics course. In addition to a thorough and in-depth study in statistics, students are assisted in preparing themselves to take the Advanced Placement Statistics Examination. Students who successfully complete the AP Statistics Exam are eligible for advanced placement at college and /or college math credit.	Teacher recommendation	Yes
1373	Functions/ Statistics/ Trigonometry (FST)	1.0	2	FST (Functions, Statistics and Trigonometry) is a math course designed for the college-bound student to be taken after successful completion of Algebra 2 College and prior to enrolling in precalculus and/or AP Statistics. The topics covered in the algebra portion of the course include: solving equations and inequalities, functions, exponents, matrices, and conic sections. The trigonometry topics covered include: the unit circle, trigonometric graphs, equations, identities and inverses. The statistics topics include: measures of central tendency, standard deviation, normal curves and probability.	Algebra 2 College	No
1356	Geometry	1.0	2	This course is designed to acquaint students with the unique properties of shapes and figures in both plane and solid geometry. Topics include: measurement of length, area and volume, estimation, formulas and equations, ratios and proportion, as well as applications of geometric principles along with elementary proofing techniques.	Algebra 1 skills	No
1362	Geometry Honors	1.0	2	This is a rigorous course designed for the college bound math student to acquaint them with the formulas and properties of shapes associated with both plane and solid geometry. Emphasis is placed on the study of congruence, constructions, similarity, right triangles, trigonometry, circles, coordinate geometry, geometric measurement and dimensions, geometric modeling, and probability. Great attention in this course is paid to formal proof writing as a means to reason deductively and to demonstrate that a given conclusion follows logically from other accepted statements.	Algebra 1 Honors or teacher recommendation	Yes

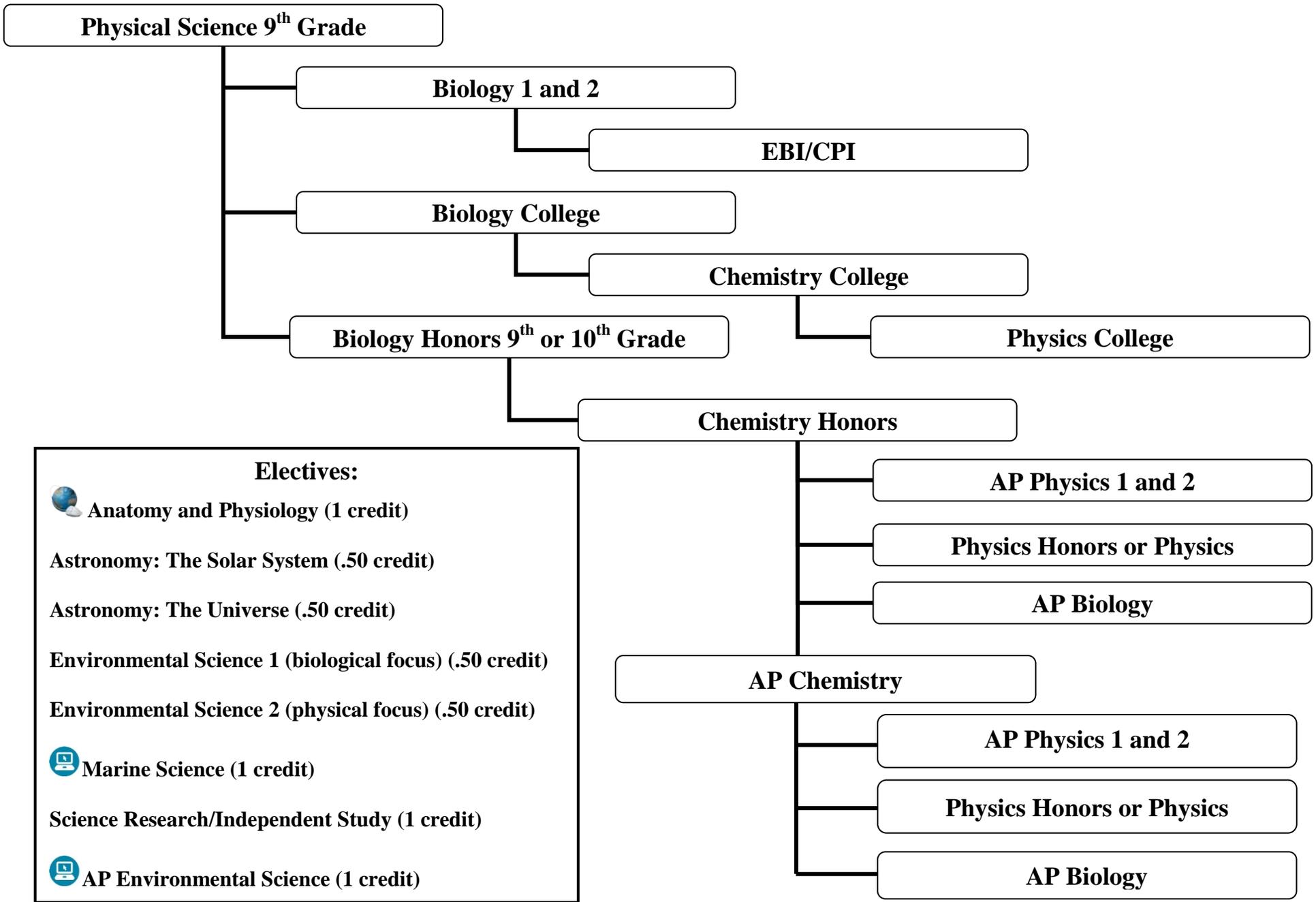
Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1365	Precalculus Honors	1.0	2	This course begins with a comprehensive treatment of college algebra which includes topics such as functions, exponents, transformations, matrices, conic sections and vectors. The second part of the course is focused on trigonometry. Topics covered include the unit circle and trigonometric graphs, equations, identities and inverses. Due to its emphasis on the application of the concepts, precalculus provides a solid foundation for beginning college level calculus.	Algebra 2 Honors or teacher recommendation	Yes
1378	Math Topics	1.0	2	This math course is designed for students who need to strengthen their skills to make them successful in Algebra 2. The curriculum covers essentials of mathematics, linear functions, systems of equations, functions, quadratics, geometry topics, statistics and probability, and real-life applications. Students who have earned a C or better in both Algebra 1 and Geometry are not eligible for this course, with the exception of students who have not passed the math portion of the PARCC.	Teacher recommendation	No

Music

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1425	Freshman Concert Band	1.0	2	The ensemble is composed of ninth graders. Freshman Band offers advanced instrumental literature and advanced approaches to ensemble playing with progressive techniques, theory, and performance skills. Student participation in all scheduled events is required. Auditions for correct seating placement are held throughout the year.	Teacher recommendation	No
1427	Scarlet Symphonic Band	1.0	2	This ninety-member band emphasizes improving playing techniques as well as the learning and performance of good standard musical literature. Public performances by the students are required each semester. Attendance at all performances is required.	successful completion of band in previous years	No
1428	Gray Symphonic Band	1.0	2	This ninety-member group is selected by audition only. Band directors make the final selection. Public performances by the students are required each semester. Attendance at all performances is required.	Teacher recommendation based on audition	No
1439	Concert Orchestra	1.0	2	Orchestra is open to all string players (violin, viola, cello, double bass) and selected by audition. String students will perform selected music from the OMEA High School Class B and C list and comparable literature. Emphasis is placed on advanced pedagogical techniques of string playing as well as theory, expression and performance. Performance experiences may include OMEA Solo and Ensemble contest, large group contest and competitions, concerts and festivals. Attendance is required at all evening and other scheduled performances such as concerts, contest, festivals and evening rehearsals.	Teacher recommendation based on audition	No
1431	Symphony Orchestra	1.0	2	Orchestra is open to all string players (violin, viola, cello, double bass) and to selected wind and percussion instrument players from the bands. The orchestra will study and perform orchestral literature in the OMEA Class A list and appropriate professional level works. Performance experiences include OMEA Solo and Ensemble contest, State Orchestra contest and competitions, concerts and festivals. Attendance is required at all evening and other scheduled performances such as concerts, contest, festivals, one sectional per week, and after-school or evening rehearsals.	Teacher recommendation based on audition	No
1429	Wind Ensemble	1.0	2	Wind Ensemble is designed to give students the opportunity to become acquainted with and perform the finest literature written for band. All styles and music periods are studied and rehearsed for performance. Attendance at all performances is required.	Teacher recommendation	No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1414	Concert Mixed Choir	1.0	2	Concert Choir is a selective SATB/SSAATTB group of vocal musicians who have mastered basic vocal technique and music literacy. The emphasis is on the study of music literature, including extended works, genre & style relative to music history, and advanced performance skills and interpretation. Music studied will be at the AA and A levels of OMEA classification. Placement audition required. Participation in required performances is mandatory and part of the quarterly evaluation.	Teacher recommendation based on audition	No
1413	Mixed Chorus	1.0	2	Mixed Chorus is a group of SATB musicians whose emphasis will be on improved vocal/choral production, refined independence in part-singing, increased music reading and ear training skills, and the study and interpretation of various types of music from all time periods and in all styles. Music studied will be at the B and C levels of OMEA classification. Participation in required performances is mandatory and part of the quarterly evaluation.	Teacher recommendation based on audition	No
1405	Freshman Chorus	1.0	2	This is an entry-level ensemble for High School Choir. Emphasis will be on the study of vocal technique, independence in part-singing, increased music reading skills, ear training, and familiarity with various types of music from all time periods and in all styles. The study of music for mixed chorus (SATB) will also be included in the curriculum. Participation in required performances is mandatory and part of the quarterly evaluation.	Teacher recommendation	No
1412	Concert Women	1.0	2	Concert Women is a selective SSA/SSAA group of vocal musicians who have mastered many basic vocal skills and have excellent music literacy. The emphasis is on the study of music literature, including extended works, genre & style relative to music history, and advanced performance skills and interpretation. Music studied will be at the A and B levels of OMEA classification. Placement audition required. Participation in required performances is mandatory and part of the quarterly evaluation.	Teacher recommendation based on audition	No
1445	Music Theory and Composition	1.0	2	Music Theory is a study of the basic elements of music to include key signatures, scales, intervals, chords, melody and rhythm. Practical application of these elements is involved in harmonization and analysis of four-part music. This course is strongly recommended for any student considering a music major or minor at the college level. Junior or Senior status only.	Teacher recommendation or successful pre-test	No

Science Courses Flowchart



- Electives:**
-  **Anatomy and Physiology (1 credit)**
 - Astronomy: The Solar System (.50 credit)**
 - Astronomy: The Universe (.50 credit)**
 - Environmental Science 1 (biological focus) (.50 credit)**
 - Environmental Science 2 (physical focus) (.50 credit)**
 -  **Marine Science (1 credit)**
 - Science Research/Independent Study (1 credit)**
 -  **AP Environmental Science (1 credit)**

Science

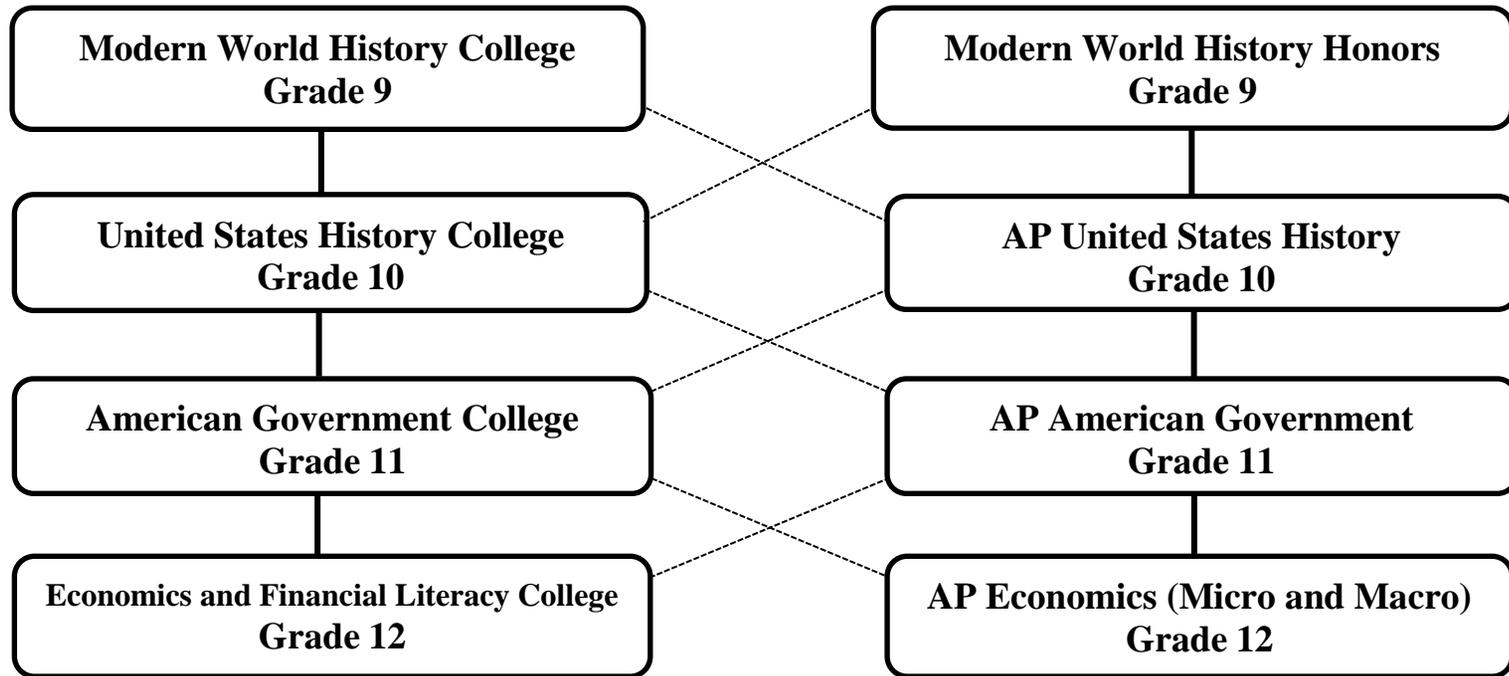
Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1453	 Anatomy and Physiology	1.0	2	 THIS IS A DISTANCE LEARNING COURSE. Anatomy and Physiology integrates the structure and function of cells, tissues, organs, and systems of the human body. Concepts of chemistry, physics, and pathology are integrated as applied to course material. An emphasis is placed on the relationship of body systems. Students will engage in lab work, dissection, research projects, and presentations with emphasis on the development of critical thinking and science inquiry skills. Open to students in Grades 11-12.	successful completion of Biology and Chemistry	No
1454	Biology 1	.50	1	Students will learn basic concepts of Biology including the Scientific Method, biochemistry, cell biology, energy processes, and ecology.		No
1455	Biology 2	.50	1	Students will learn DNA, cell division, genetics, evolution, classification of organisms, microbiology, and botany.	Biology 1	No
1461	Biology College	1.0	2	The emphasis of the course is on understanding the fundamentals of biology as they apply to daily living. Biology covers the scientific method, biochemistry, cell biology, photosynthesis, cellular respiration, molecular genetics, cell division, evolution, taxonomy, microbiology, botany, and ecology.		No
1462	Biology Honors	1.0	2	The course emphasizes the understanding of the concepts of Biology as they apply to a variety of organisms and on insight and reasoning as a means of determining the answer to a problem or question. Students will be required to complete an independent research project. This course provides the necessary background for AP Biology. Ninth grade students taking this course must complete a district-provided online Physical Science 9 course prior to the start of the school year.	Algebra 1 Honors and currently enrolled in Algebra 2 Honors or Geometry Honors or instructor approval	Yes
1463	AP Biology	1.0	2	This course is the equivalent of a college-level introductory biology course. It provides students with the conceptual framework, factual knowledge, and analytical skills necessary to deal with the rapidly changing science of biology. Success on the AP exam usually results in college credit.	Biology Honors, AP or Chemistry Honors or Chemistry with teacher recommendation and instructor approval	Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1481	Chemistry College	1.0	2	This course provides students with the fundamentals of chemistry involving real-world applications and problem solving skills. Success in chemistry is closely linked to success in mathematics.	Algebra 1 and Biology College	No
1480	Chemistry Honors	1.0	2	This course is designed to give students a strong background in chemistry in preparation for college science courses. Students use a rigorous high school textbook to study challenging chemistry concepts. Emphasis is placed on detailed problem solving and laboratory experiments.	Biology College or Biology Honors and concurrent enrollment in Algebra 2 Honors or a higher math	Yes
1495	AP Chemistry	1.0	2	This course follows a national curriculum with a college level pace and difficulty. Students use a college level text and are required to complete college level lab experiments. Activities in this class are specifically designed to prepare students for the AP Chemistry Test.	Chemistry College/Honors and concurrent enrollment in Precalculus or instructor approval	Yes
1459	Environmental Science 1	.50	1	This course is designed for students interested in a comprehensive study of current environmental issues and how humans affect the environment. ES I studies an overview of environmental science, energy transfer in ecosystems, interactions of living and non-living factors, and study of populations of species in aquatic and terrestrial biomes. Students must participate in outdoor activities.	Biology 1 and 2 or Biology College	No
1460	Environmental Science 2	.50	1	This course is designed for students interested in a comprehensive study of current environmental issues and how humans affect the environment. ES II studies human population issues, use of resources including fossil fuels, land and water, alternative energy, recycling and waste management. Students must participate in outdoor activities.	Biology 1 and 2 or Biology College	No
1458	 AP Environmental Science	1.0	2	 THIS IS A FULLY ONLINE COURSE. The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems that are natural and human-made, and prepare for the AP Environmental Science exam. Students evaluate the relative risks associated with these problems and examine alternative methods for resolving or preventing problems. Hands-on and virtual lab experiences support student content mastery. Open to students in Grades 11-12	Algebra 1 and two years of laboratory sciences	Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1485	Astronomy: The Solar System	.50	1	Students will gain knowledge and insight into the various bodies in the solar system including the sun, planets, moons, meteoroids, asteroids, and comets. Through lab activities and demonstrations, students will explore our evolving understanding of these bodies and their interactions with Earth. Students will also learn to explain the movements of celestial objects through use of the planetarium. This course is independent of Astronomy: The Universe. Open to students in Grades 11-12.	successful completion of Algebra 1	No
1486	Astronomy: The Universe	.50	1	Students will learn about the nature of light and its use in studying stars, galaxies and objects outside our solar system. Lab and classroom activities will include star maps, stellar evolution, cosmology, and searching for extra-terrestrial life. Students will utilize current technology (internet, apps, etc.) to aid in the exploration of our changing universe. This course is independent of Astronomy: The Solar System. Open to students in Grades 11-12.	successful completion of Algebra 1	No
1450	Physical Science 9	1.0	2	This is a survey course using laboratory activities and demonstrations involving the basic concepts of physics, chemistry, and related principles in Earth and space sciences. Concepts include the nature of matter and energy; electricity, identifiable physical properties of substances, properties of forces that act on objects, structures and properties of atoms, how atoms react with each other to form other substances, and how molecules react with each other or other atoms. Earth and space science topics include star formation, galaxies, Earth's interaction with the solar system, and gravitational forces.		No
1457	Earth Biological Investigations (EBI)	.50	1	This lab class is designed for students not seeking a career in science. Aligned with state standards this course covers the basic skills of earth science and biology. It is designed to illustrate the ties between earth science, biology, and technology and their relationship in understanding everyday life situations. EBI and CPI are designed to be taken in conjunction.		No
1456	Chemical Physical Investigations (CPI)	.50	1	This lab class is designed for students not seeking a career in science. Aligned with the state standards this course covers the basic skills of chemistry and physics. It is designed to illustrate the ties between chemistry, physics, and technology and their relationship in understanding everyday life situations. CPI and EBI are designed to be taken in conjunction.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1451	 Marine Science	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students delve deep into Earth's bodies of water and study geologic structures and how they impact oceans. They investigate characteristics of various populations, patterns of distribution of life in our aquatic systems, and ongoing changes occurring every day in the ecosystems. Students have the opportunity to explore the relationships among living organisms and see how they are affected by the oceans' currents, tides, and waves. Open to students in Grades 11-12.	successful completion of Biology	No
1483	Physics College	1.0	2	Physics will acquaint the student with the concepts of mechanics, electricity, magnetism, light, heat, sound, and nuclear physics. Emphasis is placed on demonstrations and laboratory exercises that will provide verification of the physical laws that govern the universe.	Algebra 2 and Biology College	No
1482	Physics Honors	1.0	2	This course involves frequent hands-on laboratory experiments. The computer is used to collect and analyze data. Study of the fundamental laws of mechanics, light, sound, electricity, magnetism, and nuclear physics will help those students interested in science, medicine, or engineering in college.	successful completion of Biology College and current enrollment in Precalculus or teacher recommendation	Yes
1493	AP Physics 1 and 2	1.0	2	AP Physics 1 and 2 is equivalent to two first-semester college courses in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power; mechanical waves and sound; fluid mechanics; thermodynamics; electricity and magnetism; optics; and atomic and nuclear physics. This course presents a rigorous and engaging experience for students focusing on testable explanations and predictions of natural phenomena.	successful completion of Geometry and Algebra 2 (can be concurrent)	Yes
1471	Science Research/ Independent Study	1.0	2	This course provides students with an outline of methods used for doing a science research experiment and the appropriate use of statistics as proof of experimental validation. Upon completion of the course, students will be expected to create a project to be exhibited at the Northeast Ohio Science and Engineering Fair and the Ohio Academy of Sciences Western Reserve District 5 Science Day. Students are responsible for their own transportation.	Application for approval must be turned in to instructor prior to scheduling deadline.	No

Social Studies Courses Flowchart



- Electives**
- Psychology (.50 credit)**
 - World Geography (.50 credit)**
 - Contemporary World Issues (.50 credit)**
 - 📖 Intro to Sociology (1.0 credit) (Grades 11-12 only)**
 - AP Psychology (.50 credit)**
 - AP European History (1.0 credit)**
 - 📖 AP Human Geography (1.0 credit) (Grades 10-12 only)**

Social Studies

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1522	American Government College	.50	1	Students will study the functions of all levels of government, with particular emphasis on the federal government. Topics that receive special focus will include: civil liberties, political parties, elections, voting, the three branches of government, and historical documents such as the Declaration of Independence and the U.S. Constitution.		No
1540	AP American Government	.50	1	This course, designed to prepare students for the Advanced Placement Exam, is for those who desire a greater intellectual challenge and are familiar with various institutions, groups, beliefs, and ideas that make up American political reality. The course is college level in nature.		Yes
1548	AP European History	1.0	2	This course, designed to prepare students for the Advanced Placement Exam, acquaints students with the basic chronology, major events, and dominant trends from approximately 1450 to the present. Emphasis is placed on the intellectual-cultural, political-diplomatic, and social-economic history of Europe.		Yes
1508	U. S. History College	1.0	2	U. S. History studies the events that shaped our country's history starting with westward expansion through the twenty-first century.		No
1519	AP U. S. History	1.0	2	This course, designed to prepare students for the Advanced Placement Test, teaches the students analytical skills and factual knowledge necessary to assess historical sources, to form judgments relative to themes in American history, and to present their ideas and conclusions in clear essay format.		Yes
1526	 Economics and Financial Literacy College	.50	1	 THIS IS A BLENDED LEARNING CLASS (blend of face-to-face and online instruction). This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Open to students in Grade 12.		No
1535	AP Economics (Micro and Macro)	1.0	2	This course is designed to prepare students for the Advanced Placement Test and focuses on: the performance of the economy as a whole, inflation, unemployment, (GNP), economic growth, fiscal and monetary policy tools for regulation of economic performance, and international trade. The course focuses on the behavior of individual firms and industries as component parts of the larger economic system.		Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1532	Psychology	.50	1	This course focuses on the study of human behavior and the psychological/emotional developmental process. Areas of study include perceptual psychology, learning and memory, child/adolescent development, normal and abnormal personality, treatment of abnormal behaviors, and the study of other related areas.		No
1545	AP Psychology	.50	1	This course, designed to prepare students for the Advanced Placement Exam, introduces students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each major subfield within psychology. This course is college-level in nature.		Yes
1536	 AP Human Geography	1.0	2	 THIS IS A FULLY ONLINE COURSE. The course is designed to provide college-level instruction on the patterns and processes that impact the way humans understand, use, and change Earth's surface. Students use geographic models, methods, and tools to examine human social organization and its effect on the world, and they are challenged to use maps and geographical data to discern spatial patterns and analyze changing interconnections among people and places. Open to students in Grades 10-12.	Teacher recommendation	Yes
1512	Contemporary World Issues	.50	1	This course focuses on world events and their relationship to social studies and geography. The historic, economic, political, sociological, cultural, and religious aspects of these events are explored. Content will vary according to current world situations.		No
1515	Modern World History College	1.0	2	This course examines world events from 1600 to present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1517	Modern World History Honors	1.0	2	This accelerated course examines world events from 1492 to present and places greater emphasis on historical thinking skills. It explores the impact of the Renaissance, Reformation, Columbian Exchange, the democratic and industrial revolutions, and the forces that led to world domination by European powers. The course also investigates the world wars that changed empires, the ideas that led to independence movements, and the effects of global interdependence. Students will investigate historical events, primary and secondary sources using historical thinking skills such as Crafting Historical Arguments, Chronological Reasoning, Comparison and Contextualization, and Historical Interpretation and Synthesis. This course will help students prepare for future advanced placement courses in social studies.	Teacher recommendation	Yes
1533	 Intro to Sociology	1	2	 THIS IS A FULLY ONLINE COURSE. Students examine the sociological processes that underlie everyday life, focusing on globalization, cultural diversity, critical thinking, new technology, and the growing influence of mass media. Open to students in Grades 11-12.		No
1525	World Geography	.50	1	World Geography focuses on the physical, political, economic, and cultural characteristics of all the continents in the world. Emphasis will be placed on the five themes of geography (place, location, movement, human environment interaction, and region). Students will use knowledge of geographic locations, patterns, and processes to show interrelationships between the physical environment and human activity. Students will gain the knowledge and skill of reading, interpreting, and making maps. Students will be able to explain the interactions that occur in an increasingly interdependent world.		No

Technology Education

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1284	Electronics Technology	.50	1	This is a hands-on technology course which teaches both analog and digital electronics. In this elective course, students systematically solve a variety of problems using different design approaches including troubleshooting, research and development, innovation, invention and experimentation. The course follows the design and designed world standards as set by the state as well as ITEA. One of the units students will explore is robotics.		No
1250	Engineering Technology	.50	1	This elective course is based on the idea that many students will be in the role of a project manager at one time or another. Students prepare and monitor a project work plan, task outline, timeline, resource allocation and cost estimation. They will utilize basic process planning and improvement tools; e.g., flowcharts, diagrams, design for manufacturability (DFM). Students will use CAD (Computer Aided Drafting) at times to solve a variety of design problems.		No
1275	Home Maintenance and Design	.50	1	This elective course will help students with the basics of maintaining the home. Students will learn to do a variety of painting finishes, small repairs, etc. throughout the home. Students will apply measuring skills to estimation of materials needed, i.e. carpeting, tile, etc. Safety practices will be reviewed for each part of the home repair sections as well as OSHA protection of workers. Students will demonstrate the proper installation of door and window replacements and learn how to do some minor restoration.		No
1255	Architectural and Civil Engineering	.50	1	This elective course will teach students how to interpret site drawings and use AutoCAD Architecture 2009 and Revit Architecture 2009 software. Students will participate in a variety of projects using this software to learn about structural physics, test materials for strength, apply hydraulic and pneumatic theory to real-world systems, and perform architectural drafting including residential and commercial. Students will create construction blueprints and topographic/site maps and plans.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1260	CAD Engineering	.50	1	This elective course will allow students to apply mathematic and scientific principles to real-life engineering and architecture projects. The Design Academy helps students understand the relevance of what they're learning and master the fundamentals of the engineering and architecture design process using Autodesk software including AutoCAD 2009, Autodesk Inventor Professional 2009, etc. Students are engaged in real-life projects that help them experience the engineering process.		No

World Language

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1101	 Chinese 1	1.0	2	 THIS IS A FULLY ONLINE COURSE. Spoken by one-fifth of the world’s population, Mandarin is the dialect of Beijing and the basis for modern standard Chinese. This course emphasizes listening skills, including the mastery of Chinese tones and tonal changes, as well as vocabulary and grammar skills. Students also begin to identify and write Chinese characters. <i>Please note that the Chinese course offerings include Chinese 1, 2, and 3 only.</i>		No
1102	 Chinese 2	1.0	2	 THIS IS A FULLY ONLINE COURSE. This course enables students to further develop the skills of listening to, speaking, reading, and writing Mandarin Chinese at a more advanced level. As they are immersed in Chinese culture, students expand their vocabulary, practice interacting with others, and learn the use of appropriate terms to communicate in various everyday situations. <i>Please note that the Chinese course offerings include Chinese 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Chinese 1 or counselor approval	No
1103	 Chinese 3	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students continue to expand their knowledge of Mandarin Chinese in this course. They build their knowledge of vocabulary, sentence patterns, and grammar points through communicative texts; enhance their listening and speaking skills through pronunciation and intonation; and work to improve their reading ability. Students advance their skills by learning to write in various formats such as journals, essays, and letters, and by composing simplified Chinese characters. By studying Chinese culture, including origins, histories, anecdotes, and more, students learn to compare and contrast various aspects of this other culture with their own. <i>Please note that the Chinese course offerings include Chinese 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Chinese 2 or counselor approval	Yes
1111	French 1	1.0	2	Students learn the language through listening, speaking, reading and writing. Dialogues and conversations are used to familiarize the students with the language. While listening and speaking are emphasized, a formal approach to grammar is also presented. In addition, students will explore the culture. Workbooks must be purchased.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1112	French 2	1.0	2	The students continue to broaden their vocabulary and grammar. They review and expand their usage of verb tenses introduced in French 1 and are introduced to additional tenses.	Recommendation: "C" or higher in French 1 or teacher approval	No
1113	French 3	1.0	2	This level continues the objectives of French 2 with communication as a primary goal. The students continue to sharpen their listening and reading skills and are expected to express themselves orally and in writing on a variety of topics. Daily oral presentation is a requirement of the course.	Recommendation: "C" or higher in French 2 or teacher approval	Yes
1114	AP French 4	1.0	2	Students are challenged to think and react in the French language. All skills are further refined. Daily oral participation and a serious commitment on the part of the student are expected. Students may also take the AP examination.	Recommendation: "C" or higher in French 3 or teacher approval	Yes
1121	German 1	1.0	2	Students learn the language through listening, speaking, reading and writing. Dialogues and conversations are used to familiarize the students with the language. While listening and speaking are emphasized, a formal approach to grammar is also presented. In addition, students will explore the culture. Workbooks must be purchased.		No
1122	German 2	1.0	2	Students in German 2 increase their knowledge of German through listening, speaking, reading, and writing. The difference between this level and the first level is more vocabulary, four additional grammar points, and more intensive speaking and writing.	Recommendation: "C" or higher in German 1 or teacher approval	No
1123	German 3	1.0	2	Previous grammar learned is reviewed and subjunctive mood and passive voice are introduced. The student's knowledge of German is extended and cassettes and videos further the student's listening ability. The majority of class time is devoted to conversation with a partner on a wide variety of topics.	Recommendation: "C" or higher in German 2 or teacher approval	Yes
1124	AP German 4	1.0	2	Written work includes a combination of in-class timed narratives and 200-word expository compositions. Cassettes and videos are used to sharpen listening skills. Daily partner conversations are mandatory and cover a wide variety of topics. Grammar points are refreshed and refined.	Recommendation: "C" or higher in German 3 or teacher approval	Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1141	 Latin 1	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students gain a foundation in Latin grammar and vocabulary as well as an appreciation and understanding of the Roman culture as the foundation for much of Western culture. Through the study of Latin, students will gain an appreciation for and understanding of the grammatical constructs of the English language as they increase their vocabulary and understanding of word origins. <i>Please note that the Latin course offerings include Latin 1, 2, and 3 only.</i>		No
1142	 Latin 2	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students build on their knowledge of Latin grammar and vocabulary and gain a solid foundation in the structure of the language as well as an understanding of the life and times of ancient Romans. They learn to appreciate how Roman engineering, art, commerce, and law systems were all supported by a clear, expressive, and flexible language. <i>Please note that the Latin course offerings include Latin 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Latin 1 or counselor approval	No
1143	 Latin 3	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students expand their knowledge of Latin by exploring prose written and spoken by Roman figures such as Caesar, Cicero, and Catullus. Through exposure to authentic texts, students strengthen their vocabulary as well as their understanding and appreciation of well-crafted writing. <i>Please note that the Latin course offerings include Latin 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Latin 2 or counselor approval	Yes
1145	 Sign Language 1	1.0	2	 THIS IS A FULLY ONLINE COURSE. This course introduces students to the fundamentals of American Sign Language. They explore vocabulary, grammar, and conversation using basic signing and fingerspelling techniques. Special activities and exercises also help students understand the culture of the deaf and hard of hearing community. <i>Please note that the Sign Language course offerings include Sign Language 1 and 2 only.</i>		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1146	 Sign Language 2	1.0	2	 THIS IS A FULLY ONLINE COURSE. In this course, students continue their study of American Sign Language (ASL). Students expand their ASL vocabulary, grammar, and conversational skills. In addition, students complete activities and exercises that help them understand the culture of the deaf and hard of hearing community. <i>Please note that the Sign Language course offerings include Sign Language 1 and 2 only.</i> Open to students in Grades 10-12.	Recommendation: “C” or higher in Sign Language 1 or counselor approval	No
1131	Spanish 1	1.0	2	Listening and speaking skills are emphasized with stress on the importance of proper pronunciation. Students will have the opportunity to talk about themselves, their interests, their feelings, and their activities. Reading and writing are also stressed for a balanced approach. Students discuss the Hispanic way of life, attitudes and customs in dialogues, readings, drawings, photographs, and songs. Workbooks must be purchased.		No
1132	Spanish 2	1.0	2	Spanish 2 is a continuation of Spanish 1. The four skills of listening, speaking, reading, and writing are emphasized. Basic grammar is completed during this year. Reading selections continue the presentation of the Hispanic way of life.	Recommendation: “C” or higher in Spanish 1 or teacher approval	No
1133	Spanish 3	1.0	2	The student's ability to communicate is emphasized. The course focuses on the expansion of basic vocabulary and the reinforcement of previous grammatical structures already learned. Advance structure is then introduced. Daily oral participation is a requirement of the course.	Recommendation: “C” or higher in Spanish 2 or teacher approval	Yes
1134	AP Spanish 4	1.0	2	Spanish 4 combines an advanced and intensive review of grammar, vocabulary, listening comprehension and speaking skills intended to prepare students for the Advanced Placement Language Test. Daily oral participation, projects, and a firm commitment by the student are course requirements.	Recommendation: “C” or higher in Spanish 3 or teacher approval	Yes

Online Electives

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1344	 ACT/SAT Prep	.50	1	 THIS IS A FULLY ONLINE COURSE Students learn test-taking strategies and complete practice tests. Students also develop college resumes, write effective personal essays, and request letters of recommendation as part of the college admissions process.		No
1374	 Advanced Algebra with Financial Applications	1.0	2	 THIS IS A FULLY ONLINE COURSE Students explore topics such as saving money, spending money, and dealing with debt. Formulas to determine account balances, monthly payments, and total costs are evaluated and applied. Incorporating real-world scenarios, students learn about mortgages, investments, and retirement, which serves as a foundation for making future financial decisions. Open to students in Grade 12.	Teacher recommendation	No
1046	 AP Art History	1.0		 THIS IS A FULLY ONLINE COURSE. This course is designed to provide college-level instruction in art history and prepare students for the AP Art History exam. Students examine major forms of artistic expression from the past to the present and from a variety of cultures. They learn to look at works of art critically, with intelligence and sensitivity, and to articulate what they see or experience. Open to students in Grades 11 and 12.	Art Exploration, Fine Art 1 or Art Foundations	Yes
1101	 Chinese 1	1.0	2	 THIS IS A FULLY ONLINE COURSE. Spoken by one-fifth of the world's population, Mandarin is the dialect of Beijing and the basis for modern standard Chinese. This course emphasizes listening skills, including the mastery of Chinese tones and tonal changes, as well as vocabulary and grammar skills. Students also begin to identify and write Chinese characters. <i>Please note that the Chinese course offerings include Chinese 1, 2, and 3 only.</i>		No
 Fully online courses have their content delivered exclusively via the computer.						

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1102	 Chinese 2	1.0	2	 THIS IS A FULLY ONLINE COURSE. This course enables students to further develop the skills of listening to, speaking, reading, and writing Mandarin Chinese at a more advanced level. As they are immersed in Chinese culture, students expand their vocabulary, practice interacting with others, and learn the use of appropriate terms to communicate in various everyday situations. <i>Please note that the Chinese course offerings include Chinese 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Chinese 1 or counselor approval	No
1103	 Chinese 3	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students continue to expand their knowledge of Mandarin Chinese in this course. They build their knowledge of vocabulary, sentence patterns, and grammar points through communicative texts; enhance their listening and speaking skills through pronunciation and intonation; and work to improve their reading ability. Students advance their skills by learning to write in various formats such as journals, essays, and letters, and by composing simplified Chinese characters. By studying Chinese culture, including origins, histories, anecdotes, and more, students learn to compare and contrast various aspects of this other culture with their own. <i>Please note that the Chinese course offerings include Chinese 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Chinese 2 and counselor approval	Yes
1502	 Criminal Investigation	.50	1	 THIS IS A FULLY ONLINE COURSE. Students examine the process of identifying and arresting criminal suspects, types of crimes and offenses, and preparing for court. They study the history of criminal investigation and explore the relationship between investigation and the courtroom process by examining case studies.		No
1501	 Intro to Criminal Justice	.50	1	 THIS IS A FULLY ONLINE COURSE. Students explore law enforcement, the courts, and the correctional system. They study what crime is, how crime is measured, and theories of crime causation. They also examine issues and challenges within the criminal justice system and its future directions.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1092	 Intro to Entrepreneurship 1	.50	1	 THIS IS A FULLY ONLINE COURSE. Students learn the basics to plan and launch their own business by studying successful entrepreneurs and basic economic concepts such as competition, production, setting up a business plan, and more.		No
1093	 Intro to Entrepreneurship 2	.50	1	 THIS IS A FULLY ONLINE COURSE. Students continue to develop skills including setting goals, understanding financial concepts, working with others, and managing employees.	successful completion of Level 1	No
1458	 AP Environmental Science	1.0	2	 THIS IS A FULLY ONLINE COURSE. The goal of this course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, identify and analyze environmental problems that are natural and human-made, and prepare for the AP Environmental Science exam. Students evaluate the relative risks associated with these problems and examine alternative methods for resolving or preventing problems. Hands-on and virtual lab experiences support student content mastery. Open to students in Grades 11-12.	Algebra 1 and two years of laboratory sciences	Yes
1503	 Intro to Homeland Security	.50	1	 THIS IS A FULLY ONLINE COURSE. This course provides an overview of the elements involved in the homeland security function, as well as the challenges managers in government and industry can face while maintaining mission operations and staff accountability in the midst of multiple overlapping roles and responsibilities. The key functions of threat prevention, asset protection, crisis response, and operations recovery are addressed from a variety of perspectives.		No
1536	 AP Human Geography	1.0	2	 THIS IS A FULLY ONLINE COURSE. The course is designed to provide college-level instruction on the patterns and processes that impact the way humans understand, use, and change Earth's surface. Students use geographic models, methods, and tools to examine human social organization and its effect on the world, and they are challenged to use maps and geographical data to discern spatial patterns and analyze changing interconnections among people and places. Open to students in Grades 10-12.	Teacher recommendation	Yes

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1343	 Journalism	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students gain firsthand experience writing news, sports, and feature articles and following proper journalism guidelines. The activities and assignments simulate an actual newsroom. Open to students in Grades 10-12.		No
1141	 Latin 1	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students gain a foundation in Latin grammar and vocabulary as well as an appreciation and understanding of the Roman culture as the foundation for much of Western culture. Through the study of Latin, students will gain an appreciation for and understanding of the grammatical constructs of the English language as they increase their vocabulary and understanding of word origins. <i>Please note that the Latin course offerings include Latin 1, 2, and 3 only.</i>		No
1142	 Latin 2	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students build on their knowledge of Latin grammar and vocabulary and gain a solid foundation in the structure of the language as well as an understanding of the life and times of ancient Romans. They learn to appreciate how Roman engineering, art, commerce, and law systems were all supported by a clear, expressive, and flexible language. <i>Please note that the Latin course offerings include Latin 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Latin 1 or teacher approval	No
1143	 Latin 3	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students expand their knowledge of Latin by exploring prose written and spoken by Roman figures such as Caesar, Cicero, and Catullus. Through exposure to authentic texts, students strengthen their vocabulary as well as their understanding and appreciation of well-crafted writing. <i>Please note that the Latin course offerings include Latin 1, 2, and 3 only.</i>	Recommendation: “C” or higher in Latin 2 or teacher approval	Yes
1091	 Sports Management	.50	1	 THIS IS A FULLY ONLINE COURSE. In this introduction to the fast-growing field, students explore topics such as sports marketing, branding, ticket sales, media relations, and ethics. They also learn tips for breaking into the industry. The activities and assignments require students to respond to real-world sports management scenarios.		No

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1451	 Marine Science	1.0	2	 THIS IS A FULLY ONLINE COURSE. Students delve deep into Earth's bodies of water and study geologic structures and how they impact oceans. They investigate characteristics of various populations, patterns of distribution of life in our aquatic systems, and ongoing changes occurring every day in the ecosystems. Students have the opportunity to explore the relationships among living organisms and see how they are affected by the oceans' currents, tides, and waves. Open to students in Grades 11-12.		No
1499	 Intro to Medical Assisting	.50	1	 THIS IS A FULLY ONLINE COURSE. Students explore the role of the medical assistant, including professionalism, duties and responsibilities, and medical specialties. Also included is information on medical law and ethics, office management, and compliance and regulatory issues affecting the role of the medical assistant.		No
1145	 Sign Language 1	1.0	2	 THIS IS A FULLY ONLINE COURSE. This course introduces students to the fundamentals of American Sign Language. They explore vocabulary, grammar, and conversation using basic signing and fingerspelling techniques. Special activities and exercises also help students understand the culture of the deaf and hard of hearing community. <i>Please note that the Sign Language course offerings include Sign Language 1 and 2 only.</i>		No
1146	 Sign Language 2	1.0	2	 THIS IS A FULLY ONLINE COURSE. In this course, students continue their study of American Sign Language (ASL). Students expand their ASL vocabulary, grammar, and conversational skills. In addition, students complete activities and exercises that help them understand the culture of the deaf and hard of hearing community. <i>Please note that the Sign Language course offerings include Sign Language 1 and 2 only.</i> Open to students in Grades 10-12.	Recommendation: "C" or higher in Latin 2 or teacher approval	No
1533	 Intro to Sociology	.50	1	 THIS IS A FULLY ONLINE COURSE. Students examine the sociological processes that underlie everyday life, focusing on globalization, cultural diversity, critical thinking, new technology, and the growing influence of mass media. Open to students in Grades 11-12.		No

Distance Learning Electives

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1453	 Anatomy and Physiology	1.0	2	 THIS IS A DISTANCE LEARNING COURSE. Anatomy and Physiology integrates the structure and function of cells, tissues, organs, and systems of the human body. Concepts of chemistry, physics, and pathology are integrated as applied to course material. An emphasis is placed on the relationship of body systems. Students will engage in lab work, dissection, research projects, and presentations with emphasis on the development of critical thinking and science inquiry skills. Open to students in Grades 11-12.	successful completion of Biology and Chemistry	No
1094	 C++ Programming	1.0	2	 THIS IS A DISTANCE LEARNING COURSE. This course will cover development of C++ programs. Topics include data storage, pointers, conditions, iteration, recursion, object-oriented design, and testing. Emphasis will be placed on the applications of programming to business and gaming. Open to students in Grades 10-12.	AP Computer Science	No
1381	 Calculus 3 and Differential Equations	1.0		 THIS IS A DISTANCE LEARNING COURSE. This course is a continuation of the study of differential and integral calculus. Topics include differential calculus of functions of more than one variable, directional derivative, gradients, applications of partial derivatives, multiple integration, and line integrals. Open to students in Grade 12.	successful completion of Calculus BC or teacher approval and meet criteria for College Credit Plus	Yes
 <i>Distance Learning courses have their content delivered via video conferencing equipment. The teacher may or may not schedule face-to-face instruction.</i>						

 **Blended Learning Elective**

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1095	 GenYes	1.0	2	 THIS IS A BLENDED LEARNING CLASS (blend of face-to-face and online instruction). GenYES students learn cutting edge technologies and collaborate directly with teachers to implement 21st century skills into the classroom. Students develop and refine their information and technology literacy skills, as well as research, writing, presentation, mentoring, project development, and leadership skills. Participants apply these skills by collaborating with teachers and assisting them with technology integration. Skills taught include an overview of computer technologies, concepts, terminology and functions of computers in education, business and society. Students assist peers in troubleshooting technology issues by managing a student-led help-desk in the high school Media Center. This course is open to students in grades 10-12, but class size is limited to 30 students. Open to students in Grades 10-12.	Counselor recommendation	No
 Blended Learning courses have content delivered via face-to-face and online instruction.						

New Required Online Courses For All Mentor Students

Course Number	Course Name	Credit	Sem.	Course Description	Prerequisite	Weighted
1172	 Health	.50	1	 THIS IS A FULLY ONLINE COURSE. This course provides the student with information and practical solutions to health issues relevant to adolescents in high school. The emphasis is placed on the development of individual "wellness" through an understanding and awareness of one's physical, mental, and social self. Course material during the 18 weeks deals with nutrition, mental health, family life and human sexuality, chemical substance use and abuse, infectious and non-infectious diseases, CPR, and safety and first-aid. Open to students in Grade 10.		No
1526	 Economics and Financial Literacy	.50	1	 THIS IS A BLENDED LEARNING CLASS (blend of face-to-face and online instruction). This course explores the fundamentals that guide individuals and nations as they make choices about how to use limited resources to satisfy their wants. More specifically, it examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Open to students in Grade 12.		No